

Domestic Tender notification for GPU based computational cluster for image processing, molecular simulations and AI-Based design tools.

Tender Number: (MBU/AP-1/IISc/10/2025)

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Section 1: Bid Schedule

1	Tender Number	MBU/AP-1/IISC/10/2025
2	Tender Date	22/10/2025
3	Item Description	GPU based computational cluster for image processing, molecular simulations and AI-Based design tools
4	Tender Type	Two bid system: (a) Technical Bid (Part A) (b) Commercial Bid (part B)
5	Place of tender submission	Aravind Penmatsa Rm 111, Molecular Biophysics Unit Indian Institute of Science Bengaluru – 560012 email: penmatsa@iisc.ac.in office.mbu@iisc.ac.in ; attn: Aravind Penmatsa
6	Last Date and Time for tender submission	17 th November 2025
7	Primary Point of Contact	Prof. Aravind Penmatsa, Molecular Biophysics Unit, Indian Institute of Science, Bangalore, 560012, Karnataka, India. Phone. +91-80-22932460/3552 Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

The sealed bids for procurement of **GPU based computational cluster for image processing, molecular simulations and AI-Based design tools** to Ms. Shaik Samreen at the Molecular Biophysics Unit (MBU) in the Indian Institute of Science, Bangalore. All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact.

Section 2: Eligibility Criteria

Prequalification criteria:

1. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
2. The Bidder must not be blacklisted/banned/suspended or have a record of any service- related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.
3. System Catalogue should be produced with the Technical Bid. Original Invoice, Original Warranty Certificate, and Original Test Reports should be produced for all imported items from OEM (Original Equipment Manufacturer) at the time of supply of equipment.
4. Manufacturers should have ISO or equivalent international standard certificate. Please attach the required certificate with the bid.
5. The Bidder should belong to either Class-1 or Class-2 suppliers distinguished by their “local content” as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter.
 - a) Class-1 supplier: Goods and services should have local content of equal to or more than 50%.
 - b) Class-2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.
6. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
7. The quotations should be on FOR-IISc Bangalore basis in INR only.
8. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
9. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to the Class-1 supplier.
10. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.
11. The supplier will support the user with all the spares for a minimum period of 5 years.
12. Details of experienced service engineers located within Bangalore including contact details should be provided in the tender document.

Section 3: Terms and conditions

(A) Submission of Tender

1. All documentation in the tender should be in English.
2. Vendors will be required to submit a technical proposal and a commercial proposal in **two separate sealed envelopes** (two bid systems). The technical bid should contain all commercial terms and conditions, except the price. **Only vendors who meet the technical requirement will be considered for the commercial discussion.**
3. **The technical bid** (Part A) must contain a point-by-point technical compliance document. The technical proposal should contain a compliance table with 5 columns.
 - a. The first column must list the technical requirements, in the order that they are given in the technical requirements below.
 - b. The second column must provide the specification of the instrument against the requirement (please provide quantitative responses wherever possible)
 - c. The third column should describe the compliance with a “YES” or “NO” only. Ensure that the entries in column 2 and column 3 are consistent.
 - d. The fourth column should clearly state the reasons/explanations/context for deviations if any.
 - e. The fifth column may contain additional remarks. It can be used to highlight the technical features, qualify the response of previous columns, or provide additional details.
4. **The commercial bid** (Part B) – Indicating item-wise price for the items mentioned in the technical bid, **as per the format of quotation provided in the tender**, and other commercial terms and conditions. The commercial bid should indicate the following separately: (a) equipment price (b) optional items (c) Shipping cost and (d) the Total cost.
5. The technical bid and price bid should each be placed in separate sealed covers, super scribing on both the envelopes a tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
6. The SEALED COVER super scribing tender number / due date & should reach Molecular Biophysics unit, Indian Institute of Science, Bangalore – 560012, India on or before the due date mentioned in the tender notice. In case the due date happens to be a holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
7. All queries are to be addressed to the person identified in “Section 1: Bid Schedule” of the tender notice.
8. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention

GST Registration and PAN in the tender document (Indian Bidders only).

9. In addition to that listed in the technical table that the vendor would like to bring to the attention of the committee, such as data sheets, technical plots etc. must be listed at the end of the compliance table. The committee will go through the data provided and those available in their website to evaluate the suitability.
10. The decision of the purchase committee will be final. The Institute reserves the right to accept or reject any bid or to annul the bidding process and reject all bids, at any time before the award of the contract without thereby incurring any liability of the affected bidder or bidders.
11. The order will be placed only on the bidder who participated in the bid.

(B) Cancellation of Tender

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject the lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

(C) Validity of the Offer

The offer shall be valid for at least 90 Days from the date of opening of the commercial bid.

(D) Evaluation of the Offer

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or commercial evaluation. The decision regarding acceptance and/or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and the decision in this regard shall be binding on the bidders.
4. The award of the contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
 - a. Non-submission of complete offers.
 - b. Receipt of bids after the due date and time and or by email/fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall consider that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
7. No revision of the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. The lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing and post-processing, optional items, recommended spares, warranty, and annual maintenance contract.

(E) Pre-requisites:

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

(F) Warranty:

The complete system is to be under a warranty period of **a minimum of 3 year** from the date of delivery, including a free supply of spare parts and online assistance. If the instrument is found to be defective, it must be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

(G) Purchase Order:

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in the tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc Bangalore reserves the right to cancel or amend the contract.

(H) Delivery and Installation

The bidder shall provide the lead time to delivery, installation and made functional at IISc Bangalore from the date of receipt of the purchase order. The system should be delivered, installed, and made functional **within 3 months** from the date of receipt of the purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over the entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed. The technical installation personnel/engineer, who will perform the installation, must possess proof of a training certificate from the manufacturing company/factory/principal, which should be submitted along with the tender offer.

(I) Payment Terms:

100% payments (except AMC) will be released after completion of delivery and satisfactory installation subject to TDS as per rules. As per GFR, no advance payment can be made to the authorized Indian distributors unless an equal amount of bank guarantee is provided.

(J) Statutory Variation:

Any statutory increase in the taxes and duties after the bidder's offer, if it takes place within the

original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed onto IISc, Bangalore.

(K) Disputes and Jurisdiction:

Any legal disputes arising out of any breach of contract about this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

(L) General:

1. All amendments, time extensions, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to complete the envisaged work. It is, however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of the tender, with prior intimation.

Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc Bangalore.

Section 4: Technical Specifications

Part A. Technical specifications for GPU based computational cluster for image processing, molecular simulations and AI-Based design tools

The cluster should be configured with two nodes a. Master Node ; b. Compute Node

Master Node: The master node should have the following specifications.

1. Form factor: Should be having 2U configuration with 1600W power supply unit from a standard manufacturer like Xeon EPYC .
2. The processor should be from a reputed manufacturer and should have atleast 32 cores with greater than 3Ghz processor either from intel or AMD
3. The RAM should come with 32GB or more of memory with DDR5-4800 ECC RDIMM configuration. There should be a minimum of 4 of these in the node.
4. There should be space to accommodate at least 12 or more bays to accommodate 24 TB hard disks and a capacity to add more disks in the future.
5. An appropriate RAID card with 8 internal SA/SATA ports to manage the memory has to be included.
6. A dual port Dual-Port 10Gb/s RJ45 BASE-T LAN should be included
7. A dedicated management port and a rack mount rail kit should be included.

GPU: Node (1 no.)

1. The power supply unit should have 1600W capacity with 4U form factor configuration.
2. The RAM should come with 32GB or more of memory with DDR5-4800 ECC RDIMM configuration. These should be 4 numbers.
3. The node should have a 64 core 3GHz processor AMD EPYC 9554.
4. There should be a 4 TB or more ENT SATA SSD for greater memory allocation during usage.
5. The compute node should have 2 x NVIDIA RTX 6000 Blackwell GPU cards with a memory of 96GB per card which is capable of handling parallel jobs for image processing, simulations and AI algorithms.
6. A dual port Dual-Port 10Gb/s RJ45 BASE-T LAN should be included.
7. A dedicated management port and a rack mount rail kit should be included.
8. A 16 port, 10G ethernet switch with cables need to be included for rapid data transfer between nodes/disks.
9. The suppliers should provide a warranty of three years with annual maintenance contracts extending 5 years from date of installation.

Quotation should be enclosed with a compliance statement, List of users atleast 20 installations and available performance certificates need to be enclosed. The vendors should have a service centre and staff available for promptly addressing any issues with maintenance during the service duration.

Section 5- Technical Bid

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

Prof. Aravind Penmatsa,
Molecular Biophysics Unit,
Indian Institute of Science,
Bangalore, 560012,
Karnataka, India.
Phone. +91-80-22932460/3552

Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

Sl. No Items Details

1. Name of the Bidder
2. Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)
3. Registration No/ Trade License, (attach attested copy)
4. Registered Office Address
5. Address for communication
6. Contact person- Name and Designation
7. Telephone No
8. Email ID
9. Website
10. PAN No. (attach copy)
11. GST No. (attach copy)

Signature of the Bidder

Name, Designation, Seal

Date

Annexure-2:

Declaration regarding experience

To,
Prof. Aravind Penmatsa
Molecular Biophysics Unit,
Indian Institute of Science,
Bangalore, 560012,
Karnataka, India.
Phone. +91-80-22932460/3552

Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

Ref: Tender No: **MBU/AP-01/IISc/10/2025**

Dated: 17/10/2025

Supply and installation of **GPU based computational cluster for image processing, molecular simulations and AI-Based design tools** at Department of Molecular Biophysics Unit, IISc Bangalore.

Sir/Ma'am,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing GPU based computational cluster for image processing, molecular simulations and AI-Based design tools.

(Signature of the Bidder)

Name, Designation, Seal

Date

Annexure-3:

To,
Prof. Aravind Penmatsa
Associate Professor,
Molecular Biophysics Unit,
Indian Institute of Science,
Bangalore, 560012,
Karnataka, India.
Phone. +91-80-22932460/3552
Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

Declaration of the track record
Department of Molecular Biophysics unit,
Indian Institute of Science, Bengaluru 560012, India

Ref: Tender No: **MBU/AP-01/IISc/10/2025**

Dated: 12/08/2025

Supply and installation of **GPU based computational cluster for image processing, molecular simulations and AI-Based design tools**, IISc Bangalore.

Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred /blacklisted by any Government / Semi Government organizations/institutions in India or abroad. I further certify that I'm competent officer in my company/firm to make this declaration.
Or
I declare the following,

Sl.No.	Country in which the company is Debarred/blacklisted	Reasons	Since when and for how long
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding the period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully

(Signature of the Bidder)

Name Designation, Seal

Date

Annexure – 4:

Declaration for acceptance of terms and conditions

To,
Prof. Aravind Penmatsa
Associate Professor,
Molecular Biophysics Unit,
Indian Institute of Science,
Bangalore, 560012,
Karnataka, India.
Phone. +91-80-22932460/3552
Email: office.mbu@iisc.ac.in
penmatsa@iisc.ac.in

Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

Ref: Tender No: **MBU/AP-01/IISc/10/2025**

Dated: 12/08/2025

Subject- Supply and installation of **GPU based computational cluster for image processing,**

molecular simulations and AI-Based design tools, at Molecular biophysics Unit", IISc

Bangalore. Sir,
I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name, Designation, Seal

Date

Annexure – 5:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

- 1. Bidder should provide technical specifications of the quoted product/s in detail.
- 2. Bidder should attach product brochures along with technical bid.
- 3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

Sl. No.	Description	Cat. Number	Quantity	Unit Price	Sub total
1.	Essential items noted in the technical specification				
1.a	... (details of essential items)				
1.b	...				
2.	Optional items noted in the technical specification				
2.a	... (details of optional items)				
2.b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (3 year)				
6.	Cost of Insurance and Airfreight				

Any additional items

Sl. No	Description	Cat. Number	Quantity	Unit Price	Sub total

Addressed to

To,
Prof. Aravind Penmatsa
Associate Professor,
Molecular Biophysics Unit,
Indian Institute of Science,
Bangalore, 560012,
Karnataka, India.
Phone. +91-80-22932460/3552
Email: office.mbu@iisc.ac.in

Attn: Aravind Penmatsa (penmatsa@iisc.ac.in)

Section 7 – Checklist

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

1. Sealed Envelope “A”: Technical Bid

1. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the
below annexures:
 - a. Annexure 1: Bidders details
 - b. Annexure 2: Declaration regarding experience
 - c. Annexure 3: Declaration regarding clean track record
 - d. Annexure 4: Declaration for acceptance of terms and conditions
 - e. Annexure 5: Details of items quoted.
2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

2. Sealed Envelope “B”: Commercial Bid Section**6: Commercial Bid**

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.