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High performance computing (HPC) cluster

NOTICE INVITING DOMESTIC TENDER



Biological Science Division
Molecular Biophysics Unit
Indian Institute of Science, Bangalore
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August 18, 2026

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1. Bid Schedule

1	Tender No	MBU/AS/HPC/2026/1
2	Tender Date	18.08.2026
3	Item Description	High performance computing (HPC) cluster
	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	MBU Office, Molecular Biophysics Unit, Indian Institute of Science, Bangalore – 560012
6	Last Date & Time for submission of tender	09.09.2026, 3:00 PM
7	For further clarification Meeting date/hours for clarification: 26 th August, 2026 (Wednesday) [12 Noon to 5 PM] Also via email, anand@iisc.ac.in	Prof. Anand Srivastava Associate Professor Molecular Biophysics Unit, Indian Institute of Science, Bangalore, Karnataka 560012, India Secretary (Mr. Rohith) Contact: 9731063845 (On Behalf of Purchase Committee) Email: anand@iisc.ac.in (for tender related queries)

2. Eligibility Criteria

Prequalification criteria:

1. The Bidder should belong to either class 1 or class 2 supplier 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%.)
2. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to Class-1 supplier.
3. MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details
4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per - Annexure 4.
5. 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.
6. Necessary training to operate the procured setup and required literature support should be provided without additional cost.
7. In principle onsite installation should be free of cost. The amount of time / day committed by the engineer during installation must be clearly stated.
8. Software upgrade, if any, must be free of cost for next 3 years.
9. The vendor must assure that there are no bugs and glitches with the integration. In case of glitches or bugs at the time of installation, vendor must fix the issues in less than three days from the start date.
10. In case of hardware/software issues or support, vendor should be able to provide required solution within three days.
11. All equipment must be well calibrated before and after installation.
12. Additional quote for an annual maintenance contract should be included for the next 3 years.
13. The vendor should have a good track record of delivering such equipment at universities/research institutions (please furnish the details).
14. Please provide list of customers who have procured your equipment in last 5 years.
15. The vendor should be able to repair and maintain the equipment, once it is installed in India. No travel claims must be made by vendor for servicing during the warranty/guarantee period.
16. The system must be delivered at the earliest. The smallest lead time will be appreciated. Our expectation is shipment immediately after PO (45 days) and full or part payment post installation.
17. On all systems the payment terms will be specified in the commercial proposal and is subject to negotiation.
18. The validity period of the quotation should be 60 days at least.
19. Please provide details of the number of trained personnel in India, who can service the machine.
20. Highlight the system/computer requirement to integrate the setup, if any other than specified in the specifications above.
21. The supplier will provide comprehensive support to the user for the software and instrument for a minimum period of 3 years.
22. Bidder shall have to submit audited accounts (Balance sheet profit and loss account) of last three financial years. Audited statements must be signed and stamped by a qualified chartered accountant.
23. Bidder must submit Income Tax return for last three financial assessment years.
24. Bidder must submit up to date sales tax or GST clearance certificate.

Vendor Eligibility Criteria:

1. Sales Confirmation: The vendor company should provide comprehensive details regarding their HPC installations in the last 5 years in India for multinational companies/PSUs/government organizations. The vendor should have sold the similar setup to at least 3 entities as depicted above in last 5 years in India. Furthermore, they must substantiate their claims by furnishing relevant supporting documents.
2. 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 Eligibility Criteria:

- a. The bidder should be in HPC business for at least 5 years. Support documents should be submitted.
- b. The bidder should have an annual turnover of Rs. 10 Crores or above in the last 3 Financial Years. Audited Balance sheets should be submitted.
- c. The bidder should have a sales and service office in Bangalore.
- d. The OEM should have a registered office in India with service centre facilities in Bangalore. Details of HPC engineers of bidder and OEM should be provided.
- e. The OEM should give an undertaking that warranty will be directly provided by the OEM. Also the OEM should give an undertaking to provide necessary Technical support in case the bidder fails to provide such a service to IISC.
- f. Bidder/OEM has to quote exactly as per mentioned specifications for entire solution, partial offers will not be accepted.
- g. The vendor should install all CPU and GPU based applications specified by IISC as a part of the acceptance test. Charges if any for such services should be mentioned separately
- h. The vendor should provide at least two days of training on system administration and use to IISC staff and students on- site.
- i. The vendor should not have made any losses in the last three financial years. The balance sheets should be submitted with the bid.

3. Terms and conditions

A) Submission of Tender:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a. Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications.

The technical proposal should contain a technical compliance table with 5 columns.

- I. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
- II. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible with technical details in annexure.
- III. The third column should describe your compliance with a “Yes” or “No” only. Ensure that the entries in column 2 and column 3 are consistent.
- IV. The fourth column should state the reasons/explanations/context for deviations, if any.
- V. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details.

b. Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions.

3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the 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.

4. The SEALED COVER superscripting tender number / due date & should reach Anand Srivastava, Molecular Biophysics Unit, Indian Institute of Science, Bangalore – 560012, India (or delivered to MBU office on ground floor of MBU building) on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.

All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.

5. The price must be quoted in INR (Indian Rupee). Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. The quotations should be on FOR-IISc Bangalore basis in INR only.

6. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.

7. Incomplete bids will be summarily rejected.

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 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 at least 60 Days from the date of opening of the commercial bid.

D) Evaluation of 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 during commercial evaluation. The decision in regard to acceptance and/ or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of 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 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. Further if the BIDDER is silent or does not give detail justification of their claim regarding those mentioned in technical specifications, IISc Bangalore reserves the full right to reject the tender due to non-compliance without any further discussion.
7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.

8. 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.

E) Pre-requisites: The bidder will provide the prerequisite HPC cluster

F) Warranty: The vendor should be able to repair and maintain the equipment, once it is installed in India. No travel claims must be made by vendor for servicing during the warrantee/guarantee period. If the setup is found to be defective, it must be repaired or replaced at the cost of the bidder within 15 days of receiving written notification from IISc, Bangalore. In the event of any delay in the repair or replacement of the setup, the warranty period will be extended by a corresponding amount of time to account for the downtime.

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 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 software and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

H) Delivery, Installation and Training: The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The setup should be delivered, installed and made functional within 60 days from the date of receipt of 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 of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed. The bidder should also arrange for technical training to the local facility technologists and users.

I) Payment Terms: 100% payments will be released after completion of delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of warranty period) will be released on half - yearly basis at the end of each six months subject to satisfactory services. The AMC will be comprehensive. Price basis must be on FOR-IISc Bangalore basis only. As per GFR, no advance payment can be made to domestic vendors unless an equal amount of bank guarantee is provided.

J) Statutory Variation: Any statutory increase in the taxes and duties subsequent to 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 pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

L) General:

1. All amendments, time extension, 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 successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of tender, with prior intimation.
4. 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.

4. Technical Specifications

The Biological Sciences Division (BSD) at the Indian Institute of Science (IISc) intends to purchase a high-performance computational cluster. This document is an open **domestic tender** with request for quotation for the procurement of Linux based HPC cluster consisting of following items:

Item A: Master node with shared storage – 1 unit

Item B: CPU-only compute node – 1 unit

Item C: Nvidia RTX Pro 6000 GPU based compute node – 1 unit

Item D: Nvidia H200 GPU based compute node – 1 unit

Item E: Nvidia RTX 5090 GPU based compute node – 5 units

Item F: Network components – 1 set

Details of each item are given below. Please note that the quantities mentioned are tentative and may be added or reduced when placing the purchase order on the successful bidder, based on the budget available. In view of the same, vendors are requested to quote for system-wise unit prices. For meeting the technical requirements of the RFQ, we provide both specifications that have to be met.

(01) Minimum hardware specifications

(02) Software and integration specifications.

(03) Offer parameters

The submitted quotations must meet the specifications and strictly honor the offer parameters elucidated in the RFQ to be eligible for consideration.

01: Minimum hardware specifications

Item A: Master node with shared storage. (Qty: 1 No.)

i. Processor:

Generation/make: 4th / 5th AMD EPYC, or 4th / 5th Intel Xeon Cores: 32 cores total (not threads)

Base clock frequency: 2.70 GHz Cache: 128 MB

Max cTDP: 240W

PCIe: Gen5.0 128 lanes

Memory speed: 4800 MT/s

Population: 1 or 2

ii. Baseboard: SoC (System on Chip) or C741 chipset based; 8 DIMM slots; supporting sub-NUMA nodes or NUMA nodes per socket feature; integrated video controller with VGA port; an M.2 2280 port supporting PCIe x4 NVMe solid state drive; dual USB 2.0/3.0 ports

iii. Thermal kit: A suitable actively air-cooled thermal kit sufficient to cool the installed processor(s)

iv. System memory: 4800 MT/s speed with 2 GB/core; if the solution is based on dual processor, then number and capacities of memory modules on both processors should be identical

v. Storage controller: Hardware RAID controller with 2 GB RAID-cache supporting SAS 12 Gb/s drives; support for RAID levels 0, 1, 5, 6, 10, 50, 60; support for full-GUI web-BIOS to configure/view/modify RAID configurations

vi. OS drive: 960 GB PCIe x4 NVMe enterprise edition solid state drive

- vii. Mass storage: 576 TB raw storage connected to the hardware RAID controller using enterprise edition hard disk drives each running at 7,200 RPM; the solution should support further expansion of storage capacity in future
 - viii. Ethernet: 10GBase-T (10 Gb/s) Copper RJ-45 dual ports; 2 units of 2M CAT6 patch cord to connect datacenter switch and internal cluster Ethernet switch
 - ix. InfiniBand: Nvidia/Mellanox ConnectX6 200 Gb/s (HDR200) HCA featuring QSFP56 connector; compatible 2M QSFP56 – QSFP56 HDR200 passive DAC
 - x. Server management: Full featured IPMI v2.0 compliant with dedicated management NIC port; remote media redirection; KVM-over-LAN; capability of management port configuration of either dedicated management NIC or production LAN port; these features must be perpetually licensed
 - xi. Enclosure: 2U/4U rackmount with front-accessible hot-swap drive bays supporting SAS 12 Gb/s with appropriate cooling array to suitably cool the contents of the server; suitable rackmount railkit to rack the enclosure to the existing datacenter rack
 - xii. Power supply units: 80 PLUS Platinum rated N+1 redundancy with C13 power cords of appropriate length connection to rack PDU
 - xiii. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)
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Item B: CPU only compute node (Qty: 1 No.)

- i. Processor:
Generation/make: Same as that in the master node Cores: 128 in total (not threads)
Base clock frequency: 3.10 GHz
Cache: 256 MB
Max cTDP: 400W
PCIe: Gen5.0 128 lanes
Memory speed: 4800 MT/s
Population: 2 processors (mandatory)
- ii. Baseboard: Same chipset/SoC as in the master node; 24 DIMM slots; supporting sub-NUMA nodes or NUMA nodes per socket feature; integrated video controller with VGA port; an M.2 2280 port supporting PCIe x4 NVMe solid state drive; dual USB 2.0/3.0 ports
- iii. Thermal kit: Suitable actively air-cooled thermal kit sufficient to cool the installed processors
- iv. System memory: 4800 MT/s speed with 4 GB/core; number and capacities of memory modules on both processors should be identical
- v. OS drive: 960 GB PCIe x4 NVMe enterprise edition solid state drive

- vi. Ethernet: 10GBase-T (10 Gb/s) Copper RJ-45 dual ports; 2M CAT6 patch cord to connect to internal cluster Ethernet switch
 - vii. InfiniBand: Nvidia/Mellanox ConnectX6 200 Gb/s (HDR200) HCA featuring QSFP56 connector; compatible 2M QSFP56 – QSFP56 HDR200 passive DAC
 - viii. Server management: Full featured IPMI v2.0 compliant with dedicated management NIC port; remote media redirection; KVM-over-LAN; capability of management port configuration of either dedicated management NIC or production LAN port; these features must be perpetually licensed
 - ix. Enclosure: 1U/2U rackmount with appropriate cooling array to suitably cool the contents of the server; suitable rackmount railkit to rack the enclosure to the existing datacenter rack
 - x. Power supply units: 1200W 80 PLUS Platinum rated N+1 redundancy with C13 power cords of appropriate length to rack PDU
 - xi. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)
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Item C: Nvidia RTX Pro 6000 GPU based compute node (Qty: 1 no.)

- i. Processor:
Generation/make: Same as that in master node
Cores: 32 cores total (not threads)
Base clock frequency: 2.70 GHz
Cache: 128 MB
Max cTDP: 240W
PCIe: Gen5.0 128 lanes
Memory speed: 4800 MT/s
Population: 2 processors
- ii. Baseboard: Same chipset/SoC as in the master node; 16 DIMM slots; supporting sub-NUMA nodes or NUMA nodes per socket feature; integrated video controller with VGA port; an M.2 2280 port supporting PCIe x4 NVMe solid state drive; dual USB 2.0/3.0 ports; support for 4 – double-width Gen5.0 PCIe x16 slots for full-height, full-length GPUs
- iii. Thermal kit: Suitable actively air-cooled thermal kit sufficient to cool the installed processors
- iv. System memory: 4800 MT/s speed with 4 GB/core; if the solution is based on dual processor, then number and capacities of memory modules on both processors should be identical
- v. OS drive: 960 GB PCIe x4 NVMe enterprise edition solid state drive
- vi. GPU: Four (4) units of Nvidia RTX Pro 6000 96 GB Blackwell ECC GDDR7 server edition with TGP of 600W, PCIe double-width with passive cooling

- vii. Ethernet: 10GBase-T (10 Gb/s) Copper RJ-45 dual ports; 2M CAT6 patch cord to connect to internal cluster Ethernet switch
 - viii. InfiniBand: Nvidia/Mellanox ConnectX6 200 Gb/s (HDR200) HCA featuring QSFP56 connector; compatible 2M QSFP56 – QSFP56 HDR200 passive DAC
 - ix. Server management: Full featured IPMI v2.0 compliant with dedicated management NIC port; remote media redirection; KVM-over-LAN; capability of management port configuration of either dedicated management NIC or production LAN port; these features must be perpetually licensed
 - x. Enclosure: 4U rackmount with appropriate cooling array to suitably cool the contents of the server including the installed GPUs; suitable rackmount railkit to rack the enclosure to the existing datacenter rack
 - xi. Power supply units: 3200W 80 PLUS Platinum rated N+1 redundancy with C19 power cords of appropriate length to rack PDU
 - xii. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)
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Item D: Nvidia H200 GPU based compute node (Qty: 1 No.)

- i. Processor:
 - Generation/make: Same as that in master node
 - Cores: 32 cores total (not threads)
 - Base clock frequency: 3.00 GHz
 - Cache: 64 MB
 - Max cTDP: 240W
 - PCIe: Gen5.0 128 lanes
 - Memory speed: 4800 MT/s
 - Population: 2 processors
- ii. Baseboard: Same chipset/SoC as in the master node; 16 DIMM slots; supporting sub-NUMA nodes or NUMA nodes per socket feature; integrated video controller with VGA port; an M.2 2280 port supporting PCIe x4 NVMe solid state drive; dual USB 2.0/3.0 ports; support for 4 – double-width Gen5.0 PCIe x16 slots for full-height, full-length GPUs
- iii. Thermal kit: Suitable actively air-cooled thermal kit sufficient to cool the installed processors
- iv. System memory: 4800 MT/s speed with 4 GB/core; if the solution is based on dual processor, then number and capacities of memory modules on both processors should be identical
- v. OS drive: 960 GB PCIe x4 NVMe enterprise edition solid state drive
- vi. GPU: One (1) Nvidia H200 NVL 141 GB Hopper HBM3e with TGP of 600W,

PCIe double-width with passive cooling

vii. Ethernet: 10GBase-T (10 Gb/s) Copper RJ-45 dual ports; 2M CAT6 patch cord to connect to internal cluster Ethernet switch

viii. InfiniBand: Nvidia/Mellanox ConnectX6 200 Gb/s (HDR200) HCA featuring QSPF56 connector; compatible 2M QSFP56 – QSFP56 HDR200 passive DAC

ix. Server management: Full featured IPMI v2.0 compliant with dedicated management NIC port; remote media redirection; KVM-over-LAN; capability of management port configuration of either dedicated management NIC or production LAN port; these features must be perpetually licensed

x. Enclosure: 4U rackmount with appropriate cooling array to suitably cool the contents of the server including the installed GPUs; suitable rackmount railkit to rack the enclosure to the existing datacenter rack

xi. Power supply units: 2000W 80 PLUS Platinum rated N+1 redundancy with C19 power cords of appropriate length to rack PDU

xii. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)

Item E: Nvidia RTX 5090 GPU based compute node (Qty: 5 Nos.)

i. Processor:

Generation/make: Same as that in the master node Cores: 32 cores total (not threads)

Base clock frequency: 2.70 GHz

Cache: 128 MB

Max cTDP: 240W

PCIe: Gen5.0 128 lanes

Memory speed: 4800 MT/s

Population: 2 processors (mandatory)

ii. Baseboard: Same chipset/SoC as in the master node; 24 DIMM slots; supporting sub-NUMA nodes or NUMA nodes per socket feature; integrated video controller with VGA port; an M.2 2280 port supporting PCIe x4 NVMe solid state drive; dual USB 2.0/3.0 ports; support for 8 – double-width Gen5.0 PCIe x16 slots for full-height, full-length GPUs

iii. Thermal kit: Suitable actively air-cooled thermal kit sufficient to cool the installed processors

iv. System memory: 4800 MT/s speed with 4 GB/core; number and capacities of memory modules on both processors should be identical

v. OS drive: 960 GB PCIe x4 NVMe enterprise edition solid state drive

- vi. GPU: Three (3) Nvidia GeForce RTX 5090 32 GB Blackwell GDDR7 with TGP of 575W, PCIe with active cooling fans
 - vii. Ethernet: 10GBase-T (10 Gb/s) Copper RJ-45 dual ports; 2M CAT6 patch cord to connect to internal cluster Ethernet switch
 - viii. InfiniBand: Nvidia/Mellanox ConnectX6 200 Gb/s (HDR200) HCA featuring QSFP56 connector; compatible 2M QSFP56 – QSFP56 HDR200 passive DAC
 - ix. Server management: Full featured IPMI v2.0 compliant with dedicated management NIC port; remote media redirection; KVM-over-LAN; capability of management port configuration of either dedicated management NIC or production LAN port; these features must be perpetually licensed
 - x. Enclosure: 4U/5U rackmount with appropriate cooling array to suitably cool the contents of the server including the installed GPUs; suitable rackmount railkit to rack the enclosure to the existing datacenter rack
 - xi. Power supply units: 2400W 80 PLUS Platinum rated N+1 redundancy with C19 power cords of appropriate length to rack PDU
 - xii. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)
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Item F: Network components (Qty: 1 Set)

- i. Ethernet switch: 24 port 1000Base-T (1 GbE) Copper RJ-45 private cluster switch low-latency with AC power supply with C13 power cord to connect to datacenter rack PDU
 - ii. InfiniBand switch: Nvidia/Mellanox Quantum 40-port HDR200 (200 Gb/s) QSFP56 switch (compatible with the InfiniBand HCA supplied with the servers) with N+1 redundant power supply units with C13 power cords to connect to datacenter rack PDU
 - iii. Warranty: 3 years in the form of 3-3-3 (materials-labor-onsite support)
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02. Software and integration

A. Software

- i. Rocky Linux 8 64-bit stable OS on all servers
- ii. OpenHPC or equivalent open-source Cluster Management System
- iii. Warewulf/xCAT based node provisioning/imaging system via PXE method

- iv. Munge based authentication system for node authorization
- v. Slurm/OpenPBS cluster scheduler and job management system
- vi. The master node shared storage must be configured as an NFS export to all compute nodes; home directories, common app directories must reside within it and should be seamless mounted by every node at boot time
- vii. The CPU and GPU nodes must be within the same cluster and separated by scheduler partition/queue
- viii. Console based IPMI utilities to remotely check the health of every node regardless of its power on/off condition
- ix. Utilities to synchronize date and time across the network
- x. Script to add/remove/modify users to the cluster and keeping it drift-free across the cluster
- xi. Ability to add or modify cluster partition/queue
- xii. Lua based HPC environment module should be setup
- xiii. Miniforge (or open-source equivalent) based Conda environment should be installed for allowing users to install their applications without needing sudo access
- xiv. Spack/EasyBuild package management system should be installed, and it should allow users to install their applications without needing sudo access
- xv. Open-source GCC 12 based compilers for C, C++ and Fortran
- xvi. OpenMPI generation 4 with InfiniBand support
- xvii. Hardware optimized math and Fortran libraries must be compiled
- xviii. CUDA toolkit and GPU drivers should be installed on GPU nodes in the modular environment method
- xix. List of needed applications and libraries apart from the above would be provided for installation in the cluster

B. Integration

- i. Rack all servers into the allocated rack
- ii. Rack the Ethernet switch and InfiniBand switch into the rack
- iii. Connect all servers with CAT6 cables to the cluster private switch
- iv. Connect all servers with QSFP56 InfiniBand cable to the InfiniBand switch

- v. Connect the power cords to all servers from the rack PDU
- vi. Connect Ethernet switch and InfiniBand switch to the PDU
- vii. Label all nodes on the individual enclosure to identify the server name and IP
- viii. Proper cable dressing have to be performed to avoid air-blockage wherever applicable
- ix. All required cables/wires should be supplied by the vendor to make the cluster working
- x. Add existing GPU node to the new cluster and create a specific partition/queue for it
- xi. Test the complete installation by submitting a job that tests all the nodes and test each GPU for working
- xii. Handover the cluster on successful testing

General Specification:

- a. All the equipment must be compatible with Indian electrical standards/codes
- b. As mentioned above, the bidder must carry out racking, stacking, installation, commissioning and cabling of all supplied hardware components and software. The cluster will be housed in the data center at SERC. Required numbers of racks will be made available by SERC. Each rack in SERC data center is of dimension 42 U, 600 X 1200 mm with front and rear perforated sheet steel doors. Each rack has 32A, 3 Phase, high density PDU x 02 nos with each PDU consisting of 18 Nos of C-13 sockets and 6 nos of C-19 sockets. Note that the power capacity of each rack is 15 KW and the load bearing capacity is 1200 Kg. The servers of the cluster planned should be rack mountable and be compatible with the above rack specs for accommodating in these racks.
- c. The bidder should provide manufacturing authorization form (certificate from OEM for quoting the requirement)
- d. Also, bidder must provide three to five reference sites (with phone numbers and email ids of the primary principal investigator) where they with installed equivalent or near equivalent cluster in the last 3 years. The purchase committee will independently obtain inputs from referees before making the final decision on the bid. PO copies and installation reports for the three to five recent installations must be submitted along with the Technical Bid.
- e. The lowest commercial bid and/or the most agreeable technical bid should have the option for further negotiations.

5. Technical Bid

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

Prof. Anand Srivastava,
Molecular Biophysics Unit
Biological Sciences Division
Indian Institute of Science, Bangalore – 560012

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. Anand Srivastava,
Molecular Biophysics Unit
Biological Sciences Division
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXXXXX

Dated: XXXXX

high performance computing cluster

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has XXXXXX years of experience in **high performance computing cluster**

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3

Declaration regarding track record

To,

Prof. Anand Srivastava,
Molecular Biophysics Unit
Biological Sciences Division
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXXXX

Dated: XXXXX

high performance computing cluster

Dear 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 / case is Pending	Blacklisted / debarred by Government / Semi Government/Organizations /Institutions	Reason	Since when and for how long

(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding 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

Prof. Anand Srivastava,
Molecular Biophysics Unit
Biological Sciences Division
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXX
Dated: XXXX

High performance computing cluster

Dear 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.

6. Commercial bid

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

S.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 (1 year)				
6.	AMC 2 years beyond warranty				

Any additional items

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

Addressed to

Prof. Anand Srivastava,
Molecular Biophysics Unit
Biological Sciences Division
Indian Institute of Science, Bangalore – 560012

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

The quotation should be in two parts:

Part I (Technical bid) and Part II (Commercial bid)

Part I should be put in a sealed cover and superscripted “Technical Bid”. Part II should be put in a separate sealed cover and superscripted “Commercial Bid”. Technical bid should be exactly same as commercial bid except that prices are not shown in technical bid. Technical bid should have item wise compliance report of all specifications. The above two covers should be put in another larger cover. This cover should be sealed and superscripted “Bid for Biological Science Division High Performance Computational cluster for Dr. Anand Srivastava (Molecular Biophysics Unit)”.

The Technical bid should not have any details about pricing. **The commercial bid should have pricing for each of the item quoted in the technical bid.** The last day for submitting the bid is **September 09, 2026**. The offer should be valid for a period of at least 60 days from the last date for submission of quotes. Prices quoted should be inclusive of all taxes / duties. Both technical and commercial bid will be negotiable for the lowest costing commercial bid and most desirable technical bid. While evaluating the technical bid, weightage will be given for extendibility, performance and adherence to specifications and references from past customers. The purchase committee will contact past customers and the vendors are requested to provide references that can be contacted for the same.

Payment will be made after satisfactory supply and installation. The installation should be done within 45 days of release of the PO. The system supplied may be tested/certified by us through an identified person/committee. Three year on-site warranty should be provided for the hardware. The warranty period will commence from the date of acceptance of the equipment.

Important Dates:

Date of release of the enquiry :	18 th August, 2026 (Tuesday)
Pre-bid clarification :	26 th August, 2026 (Wednesday) [12 Noon to 5 PM]
Date of submission of Quote :	9 th September, 2026 (Wednesday), by 5:00 PM. MBU office

Best regards,
Anand Srivastava
Associate Professor, Molecular Biophysics Unit
Indian Institute of Science-Bangalore
Bangalore 560012
Phone: +91-8277010452



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