

Department of Genetics
University of Delhi South Campus
New Delhi - 110021

Specification of High-Performance Cluster (HPC) system with Accessories

Ref. no. UDSC/Genetics/AD/HPC1/F/2024-25

Dated 20.03.2025

Quotations are invited through GeM/CPD portal (e-procurement) under 2-bid system for High-Performance cluster (HPC) system with accessories with FOR destination price to be quoted in INR for University of Delhi, South Campus. The quote should be inclusive of all taxes and duties for supplying and installation of the item as described below.

Workstation 1 with GPU: Qty 1

CPU Generation	3rd Generation or higher
Chipset	Compatible Intel chipset
Processor	Intel Xeon Gold 6338/ AMD Equivalent processor or Higher
Total CPU Cores	Total 64 Cores (each processor with 32 Cores)
CPU Base Frequency	2.00 GHz or higher
CPU Cache	48 MB or higher
No of CPU populated	Two
Performance Benchmark	Specrate2017_fp_base > 430 Specrate2017_Int_base > 380 System OEM must have listed SPEC benchmark score as afore mentioned in www.spec.org with the same node model or a model from the similar series, with same CPU configuration as quoted in the bid. (Dual/single processor published spec benchmark acceptable). Datasheet must be attached in Bid.
Audio Controller	On board thru HD controller
Memory (RAM)	512GB ECC DDR4, Expandability up to Max 1TB, at least 16 DIMM slots.
PCIe slot	4 PCIe 4.0 x16, 2 PCIe 4.0 x8
Graphics Controller	Onboard HD Graphics
NVMe Controller	M.2 Interface: 1 PCIe 4.0 x4
Storage	1.92TB Nvme SSD 8TB SATA HDD
GPU supports	1 x Nvidia RTX A5000 24 GB
Storage Expansion Bays	4 x 3.5" Internal bays from day one. And Expandable up to 8 x 3.5" in future, Minimum 2 x 5.25" Peripheral Bays.
Display/screen Size	27 inch Monitor
Display and Panel Technology	LED, IPS Panel,
Display Resolution	1920*1080
Keyboard	Standard USB
Mouse	Standard Optical USB
Pre-loaded OS	Latest Ubuntu Linux preloaded
Certification	RHEL & Window certified system, certificate copy should be uploaded.

Bundled OEM Utility	OEM Utility for providing pre compiled frameworks access for ML and DL workload to be pre-loaded.
Port, Security and Miscellaneous	USB ports – Min. 4 Nos. 2.0/3.0, 10G LAN Port – Min. 2Nos. RJ45 ports Display Out Ports- 2 DP
Security Features	Automated BIOS/System level encryption to authenticate input and output data passing through. System information including keys, passwords and digital certificates stored/created are secured from external software attacks. Cryptographic functions offered for system security.
Power Supply	Minimum 1200W, Platinum (80 plus certified), Chassis has provision to upgrade redundant in future.
Warranty	Minimum 5 years OEM Comprehensive onsite
Security	TPM 2.0 Compliant
Local Support	OEM has their own registered Service and Support center in Consignee City /State.
Regulatory Compliance	BIS certified System, certificate should upload in Bid.

Workstation 1 without GPU: Qty 1

CPU Generation	3rd Generation or higher
Chipset	Compatible Intel chipset
Processor	Intel Xeon Gold 6338 /AMD Equivalent processor or above
Total CPU Cores	Total 64 Cores (each processor with 32 Cores)
CPU Base Frequency	2.00 GHz or higher
CPU Cache	48 MB or higher
No of CPU populated	Two
Performance Benchmark	Specrate2017_fp_base > 430 Specrate2017_Int_base > 380 System OEM must have listed SPEC benchmark score as afore mentioned in www.spec.org with the same node model or a model from the similar series, with same CPU configuration as quoted in the bid.
Audio Controller	On board thru HD controller
Memory (RAM)	512GB ECC DDR4, Expandability up to Max 1TB, at least 16 DIMM slots.
PCIe slot	4 PCIe 4.0 x16, 2 PCIe 4.0 x8
Graphics Controller	Onboard HD Graphics
NVMe Controller	M.2 Interface: 1 PCIe 4.0 x4
Storage	1.92TB Nvme SSD 8TB SATA HDD
GPU supports	Should support up to one double width GPU cards
Storage Expansion Bays	4 x 3.5" Internal bays from day one. And Expandable up to 8 x 3.5" in future, Minimum 2 x 5.25" Peripheral Bays.
Display/screen Size	27 Inch Monitor
Display and Panel Technology	LED, IPS Panel,
Display Resolution	1920*1080
Keyboard	Standard USB
Mouse	Standard Optical USB
Pre-loaded OS	Latest Ubuntu Linux preloaded
Certification	RHEL & Window certified system, certificate copy should be uploaded.
Bundled OEM Utility	OEM Utility for providing pre compiled frameworks access for ML and DL workload to be pre-loaded.
Port, Security and Miscellaneous	USB ports – Min. 4 Nos. 2.0/3.0, 10G LAN Port – Min. 2Nos. RJ45 ports Display Out Ports- 2 DP
Security Features	Automated BIOS/System level encryption to authenticate input and output data passing through. System information including keys, passwords and digital certificates stored/created are secured from external software attacks. Cryptographic functions offered for system security.
Power Supply	Minimum 1200W, Platinum (80 plus certified), Chassis has provision to upgrade redundant in future.
Warranty	Minimum 5 years OEM Comprehensive onsite
Security	TPM 2.0 Compliant

Local Support	OEM has their own registered Service and Support center in Consignee City/State.
Regulatory Compliance	BIS certified System, certificate should upload in Bid.

Other Items: -

b	Secondary Switch - 1 x 24 Port 1G lan Switch
c	UPS: 1 x 10 KVA UPS with batteries and UPS Rack
d	Air Conditioners: 1 x 1.8 Tone AC

General Instructions

1. Premium branded instrument should be provided to ensure the high quality and reliability of experimental outcomes.
2. Details on website & product literature justifying the technical specifications must be provided. The vendor must provide appropriate link/ website detail to verify the technical specifications mentioned in the provided product broacher.
3. The system should come along with 5 years comprehensive warranty. Should be supported with remote services, cloud connectivity online monitoring, and external barcode using USB, etc.
4. The supplier should have service center in Delhi/NCR for quick service within 48 to 72 hours
5. Firm MUST provide a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph, or lines. This statement must be signed, with the company seal, by the Tendered for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the Tender.

Important information

1. The quotation should be addressed to the "Professor Amit Dutt, Department of Genetics, University of Delhi South Campus, New Delhi-110021". The quote should be submitted with all terms and conditions and necessary documents latest by end of tender date.
2. Quotations must be submitted in a two-bid-system. The first part, technical bid, should consist of all technical details and supporting documents with terms and conditions. The compliance sheet must be filled by the vender.
3. The second part, financial bid, should contain item-wise pricing of items mentioned in the technical bid. Both the quotation documents/ bids are to be submitted through GeM/CPP portal of the Government of India only (e-procurement). Hard copies of bid will not be accepted.
4. The successful bidder must provide a performance bank guarantee (PBG) as per rule 171 GFR 2017 totaling 3% of the value of the main machine quote with a validity of 60 days upon completion of the warranty period. The PBG should be in favor of "**The Director, University of Delhi South Campus, New Delhi-110021**". PBG must be provided at the time of Installation to avoid delay in payment release.
5. The bidder will have to quote all items together. Partial quotes will not be accepted. For each item, the make, model and technical specifications and quantity must be mentioned clearly. Original brochure must be provided.

6. The purchase committee reserve the right to request the participating vender for demonstration of the all the quoted technical specification/ capabilities of the offered model preferably at University of Delhi South Campus, New Delhi-21, or within the Delhi state. The purchase committee reserves the right to disqualify a participating vender if they fail to demonstrate the quoted technical specification and/or capability of the offered equipment/ model.
7. The quote should be valid for 90 days from the last date of submission of bid.



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