

GPU Server Minimum Specifications

S. No.	Items	Minimum Specifications
1	Processor	Minimum Dual 192-core (384 Threads) or higher latest generation Intel® Xeon® or AMD EPYC scalable processors with hyper-threading, and with minimum 1 × GPU Accelerator.
2	RAM	The system should be configured with minimum 2 TB DDR5 RAM with all slots populated in a balanced configuration for maximum bandwidth.
3	Storage	Minimum total of 3.84 TB NVMe Drives for OS (mirrored) and Total of min. 50 TB NVMe Drives Configured in RAID-05
4	Network	• 1 x Management Port • 2 x 10G Base-T RJ45 port with suitable cables and length. • 2 x 10/25GbE SFP28 Ports with cables and Transceivers
5	Disk Array Controller	Hardware controllers should have 12Gbps speed and support for RAID 0, 1, 5,10. With 8GB cache or higher.
6	Expansion Slots	8 PCIe 5.0 x16 slots or higher should be available.
7	Remote Management	Remote management port, IPMI 2.0 or equivalent support with KVM and Management over LAN features with additional licenses if any.
8	Accelerator	Single NVIDIA H200 NVL GPU should be available from day 1. Systems should support a total of 8 GPU in the server.
9	Management Features	Dedicated IPMI Management Port with Activated License. IPMI 2.0 Support with KVM and Media over LAN features. Must include all required licenses, if required for using these features. It should be able to automate mgmt. tasks and automated firmware updates. Email Alerting Methodology, User management functionality with SSL based security, Multiuser Permission Levels, multiuser Profiles USB 2.0 or 3.0 based drive redirection with support for USB Key, VLAN functionality supports Reading Log Events. Manual / Datasheet must be submitted for the compliance.
10	Security Features	• UEFI Secure Boot and Secure Start support Immutable Silicon Root of Trust • TPM (Trusted Platform Module) 2.0 Server OEM • Bezel Locking & chassis Intrusion Detection Kit • Compliance: RoHS, CC EAL4+ certified TPM Chipset.

11	Platform Monitoring	LED indicators for Power status, System alert, LAN activity, Drive activity, System ID, Monitoring & Management for CPU, GPU, Memory, Storage, Network and Chassis Environment for power and cooling. Actual or Impending failure alerts for critical components, Monitoring with event logs and SMART attributes, Monitoring of CPU voltages, Chipset Voltage, PSU +5V standby, +5V, +3.3V, +12V
12	OS Compliance and AI / ML Support	Should support, Ubuntu Linux and certification OEM Web link should be submitted. The proposed server should support AI Inference, Machine Learning & Cloud Computing from day 1 and the necessary document should be provided with BID Ready containers for AI, Machine Learning should be available from day 1. Containers should be available in the local repository and will be deployed in one-click fashion.
13	Remote Management Server Processor	Remote Management should be supported.
14	AI / ML Features	• Native inbuilt AI & ML containers in the image format. • The proposed server should support AI Inference, Machine Learning & Cloud Computing from day 1 and the necessary document should be provided. • Ready containers for AI, Machine Learning should be available from day 1. • OneClick Containers deployment should be available from the local.
15	Scalability	• Proposed systems should be scalable and HPC ready from day 1. • Systems Architecture should be scalable up to 20 Nodes with single cluster and manageability with single management console.
16	Power Supply	• Appropriate rated and energy efficient, redundant hot swappable power supply (Mandatory)
17	Rail Kit	• Server should be supplied with a compatible Railing Kit.
19	Graphics	• On-board graphics support (VGA)
20	Warranty	• 5 Years comprehensive onsite warranty

Scope of Work

1. The bidder shall **supply, install, configure, test, and commission** the required server infrastructure, including all necessary software, operating systems, and licenses, at the **Gujarat Biotechnology Research Centre (GBRC), Gandhinagar, Gujarat.**
2. All software, operating system, and library licenses must be issued in the name of the **Director, Gujarat Biotechnology Research Centre (GBRC), Department of Science & Technology, Government of Gujarat.**
3. The bidder shall provide **comprehensive documentation** covering system implementation, configuration, and deployment.
4. The solution must support **remote console access** for server and shall have **cluster health monitoring shall be enabled for future over Fast Ethernet or better connectivity speeds.**
5. The servers/chassis/enclosures must be delivered with **N+1 redundant power supplies** of appropriate capacity. The failure of one power supply must not affect the server's performance or operation.
6. The server infrastructure shall be **clustering-ready**, allowing for future implementation of server clustering.
7. The bidder shall provide server with all necessary **cabling, SFP modules, KVM console and other active/passive components** required to host the servers at GBRC. Any additional components required for successful deployment must be included in the proposal and supplied without exception.
8. The bidder shall provide **on-site comprehensive warranty and maintenance services for a period of five (5) years** from the date of successful User Acceptance Test (UAT). The warranty shall include but not be limited to: Firmware and software updates, Proactive bug fixes and security patches, Preventive maintenance, Replacement of defective parts and components
9. Bidder shall provide software upgrade/downgrade support throughout warranty period without any additional charges.
10. Bidder has to install bioinformatics software with latest Ubuntu operating system.
11. Bidder shall have experience of server installation for bioinformatics in National/State Research Institutes/Organizations/Universities (Document proof to be submitted)
12. The entire solution, including all hardware and software components, must be **delivered in a single consolidated lot.**
13. In the event of repeated failure—defined as **two or more failures of any system or subsystem within a 5-month period**—the bidder shall replace the affected equipment with equivalent new hardware at **no additional cost** to GBRC. All defective items must be repaired or replaced **within the defined SLA period.**
14. The bidder shall be fully responsible for ensuring and honoring the **OEM warranty coverage** for all equipment, accessories, and parts supplied under this contract, including issues arising from design, material defects, workmanship, or normal usage.
15. In case of hard disk/memory (RAM) failure, the bidder must replace the faulty disk/memory at no cost during warranty period. **The department will retain the faulty disk** and it will not be returned to the bidder during warranty period.

16. The bidder shall ensure **complete support for the proposed solution**, including **back-to-back support from the OEM**. A detailed **Support and Escalation Matrix**, along with access to a **support portal** for incident/ticket logging, must be provided. Additionally, the portal should display and manage all licenses issued under this contract.
17. The bidder has to relocate servers one time from GBRC's existing building to new location in future without any additional cost.

Please submit undertaking letter as per Ministry of Finance Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 as per performa given below on OEM letterhead as well as on bidder's letterhead.

On letterhead of Bidder

Sub : Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division

Ref: Bid Number: _____

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that we as a bidder and quoted product from following OEMs are not from such a country or, if from such a country, these quoted products OEM has been registered with competent authority. I hereby certify that these quoted product & its OEM fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority, otherwise GIL/End user Dept. reserves the right to take legal action on us.

(Signature)

Authorized Signatory of **M/s <<Name of Company>>**

On letterhead of OEM

Sub : Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division

Ref: Bid Number: _____

Dear Sir,

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that our quoted product and our company are not from such a country, or if from such a country, our quoted product and our company have been registered with competent authority. I hereby certify that these quoted product and our company fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number_____.

No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority; otherwise GIL/End user Dept. reserves the right to take legal action on us.

(Signature)

Authorized Signatory of **M/s <<Name of Company>>**

Bidder Information

Name	
Designation	
Company Address	
Telephone No	
Mobile No	
E-mail	