

Server Minimum Specifications

S. No.	Items	Minimum Specifications
1	Processor	Min Dual 32-core and 64 Threads latest Generation, Intel® Xeon® platinum or AMD Epyc scalable processors (Total 64 core/ 128 Threads)
2	Chipset	System on Chip
3	Memory (RAM)	256 GB or higher ECC DDR5 RAM.
4	Storage (SSD)	Must be configured with minimum total of 2 X 960 TB NVMe Drives for OS (mirrored)
5	Storage (HDD)	4 x 16 TB HDD 7200 RPM (Raid 5)
6	Operating System	Ubuntu
7	Disk Array Controller	Hardware controllers should have 12Gbps speed and supports for RAID 0, 1, 5,6, 10. With 8GB cache or higher
8	Networking	NIC: Dual 1 Gigabit Ethernet LAN Ports AOC: Dual 10G/25GSFP+Ports (With 10GSRModules)
9	Management (IPMI)	Remote management port, IPMI 2.0 or equivalent support with KVM and Management over LAN features with additional licenses if any.
10	USB Ports	2 USB 3.0 Ports or more
11	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.
12	Chassis	Rackmount Chassis with Hot-Swappable Drive Bays
13	Rail Kits	Server should be supplied with a compatible Railing Kit.
14	Graphics	On-board graphics support (VGA)
15	Power Supply	Appropriate rated and energy efficient, redundant (N+1) hot swappable power supply (Mandatory)
16	Warranty	3 Years On-Site Warranty

Scope of Work (ICMR)

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 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 three (3) 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. The entire solution, including all hardware and software components, must be **delivered in a single consolidated lot.**
12. 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.**
13. The bidder shall be fully responsible for ensuring and honouring 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.
14. 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.

15. 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.