Enquiry No- RFE/DDIA/2026-27/02 Estimate Quotation Opening Date - 30/10/2026, Closing Date - 08/11/2026	
Rack Server Specification Five servers required with the following specifications.	
Chassis	2U rack mountable
Processor	Latest-generation AMD EPYC 9005 series or newer (or equivalent Intel Xeon 6), with 32 cores or more (64 threads), base clock of at least 3.5 GHz, with 256 MB L3 cache and DDR5-6400 or better.
Platform / Memory architecture	The board must support single-socket operation with DDR5- 6400 memory at one DIMM per channel (at least 12 channels for AMD EPYC, at least 8 channels for Intel Xeon) and a documented PCIe 5.0 lane map for every slot, OCP slot and drive bay. If supplying an Intel Xeon processor, the bidder must state the chipset or PCH, if any.
Memory	Minimum 128 GB DDR5-6400 ECC dual rank RDIMM, populated at one DIMM per channel (at least 8 DIMMs), and should be expandable to 1 TB (two DIMMs per channel acceptable for expansion).
Bus Slots	Two OCP 3.0 slots (one populated with a dual-port 10GbE BASE-T RJ45 adapter, one free), with NC-SI management support, plus a minimum of two free PCIe Gen5 slots (x8 or wider) after the RAID controller and all other quoted devices are installed, one of which is reserved for a Fibre Channel HBA. The bidder must list the supported OCP adapters.
Controller	Embedded / PCIe based RAID controller with minimum 8GB cache supporting RAID 0, 1, 5, 6, 10, 50, 60 with flash-backed or battery-backed cache protection. The controller must support the following : 1. Instant secure erase 2. Migrate RAID/Stripe size 3. Modifying cache write policy 4. Move logical drive 5. Load Balancing
Storage	8 x SFF drive bay to support future expansion of SATA/SAS SSD. 2x960 GB NVMe M.2 boot optimised storage module or higher with hardware RAID1. 4x 1TB enterprise host-swap SATA/SAS SSD.
Ports	Minimum 4x USB support with at least one port in front (USB 3.0). VGA port.
Networking features	Dual Port 10GbE BASE-T Ethernet OCP Adapter
Power Supply	Redundant, 230 V AC input, Hot-Plug Power Supplies with Titanium efficiency or higher. It should be sized to support the fully populated configuration, including all drive bays, both PCIe slots and both OCP slots. Wattage to be stated by the bidder.
Fans	Redundant hot-plug system fans.
Industry Standard Compliance	ACPI 6.4 or later, PCIe 5.0 Compliant, Redfish API, IPMI 2.0, Advanced Encryption Standard (AES), SNMP v3.
System Security	TPM 2.0, secure boot, signed firmware protection, intrusion detection support, automated BIOS/system-level encryption to authenticate input and output data, Immutable silicon root of trust. server OEM bezel locking & chassis intrusion detection kit included. Details of the utility must be submitted with the bid.
Operating Systems	Certified for latest stable RHEL, Ubuntu and Debian version.

Server Management	1. Server should have a dedicated 1Gbps remote management port. All licences needed for remote console, virtual media, power capping and the dashboard must be included. 2. The server should support agentless management using the out-of-band remote management port. 3. Remote management including remote access, power on, and shutdown should be available. 4. The server should provide power capping and historical reporting. 5. The server management software should be of the same brand as the server supplier. 6. Management dashboard should show the real time security status of the derver. 7. Management dashboard should suggest tuning recommendations for better operational efficiency. 8. Thermal sensors across the server chassis help with optimal fan speed and overall helps with energy cost savings.
Virtualization features	Require SR-IOV, IOMMU, hardware virtualization extensions and nested virtualization.
Installation	Testing and demonstration of product features. Installation should be done by OEM-certified engineers. User acceptance test (boot, RAID build, network throughput, burn-in) is required for installation to be complete.
Accessories	All cables, CMA along with Rack mounting kits must be provided with power cords compatible with the rack PDU (C13/C14).
Warrenty	5-year on-site comprehensive warranty by OEM/bidder. 24x7 support with next-business-day onsite response, and a named escalation contact in India. All software & firmware on the offered server hardware must receive updates during the support period. Defective storage media (drives and M.2 modules) will be retained by IIT kanpur and must be replaced free of cost, without being returned to the vendor.
Local Content	The make in India, local content declaration should be on the OEM letterhead and attached to the technical bid.
OEM Experience	The OEM/Brand must have a presence in India as a manufacturer of similar items and have supported the establishment for more than 10 years; documentary proof should also be submitted.
NOTE: Bidders should quote an additional 128 GB RAM separately for the above system to make total RAM 256 GB.	
Please note the important details below:-	
1	The quotation must be submitted in hard copy on or before 08/11/2026 to Room No -222, Computer Centre, IIT Kanpur - 208016
2	These Budgetary quotations are called for Pre-Tender Process (Price Estimation purpose) only.
3	Tender Notice/RFP (Request for Proposal) will be done later on, as per GFR-17.
4	Budgetry Quotations shall not be considered (in any case) as participation in any Bid-Process.