

**Enquiry No- BQ/DDIA/CC/2026-27/01,Budgetary Quotation Opening date-16/10/2026
,Closing date-26/10/2026**

SERVER PROCUREMENT TENDER — TECHNICAL

Comprehensive Tender Reference Sheet: Enterprise 2U Rack Server Specifications & Additional Terms & Conditions (ATC)

SECTION A: TECHNICAL SPECIFICATIONS (ENTERPRISE 2U RACK SERVER)

Item / Parameter	Technical Specification / Requirement Details
Chassis/Form Factor	2U Rack-mountable server with tool-less sliding rails and cable management arm
Processor	Dual Socket Architecture: Intel Xeon 6th Gen 2.4 GHz or higher base frequency, 24 core with minimum 144MB cache OR AMD EPYC 9005 Series 2.9 GHz or higher base frequency, 24 core with minimum 256 GB (e.g., 4x 64 GB or 8x 32 GB) DDR5 RDIMM running at up to 6400 MT/s.
Memory Slots	Minimum memory support up to 4 TB or above capacity. Supports Advanced ECC and Memory Mirroring / Sparing. Minimum 32 DIMM Slots (16 Slots for each physical processor socket)
Disks Supported	Up to 16 x 2.5-inch SAS/SATA (HDD/SSD)
Boot Storage	2x 960 GB (or higher) Enterprise Hot-Plug SSDs/ SAS HDD configured in hardware RAID 1 for hypervisor/OS boot.
Data Storage	8x 2.4 TB 10K RPM 12 Gbps Enterprise SAS Hot-Plug HDDs.
RAID Controller	Embedded / PCIe based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0,1,10,5,50,6,60. Must support mix-and-match SAS, SATA, and NVMe drives.
Network Interfaces	Integrated/OCP 3.0 Quad-port (4-port) 1 GbE RJ-45 Base-T network adapter.
PCIe Expansion	Minimum 6 active PCIe Gen 5 expansion slots (supporting full-height/half-height expansion cards).
I/O Ports	3* USB 3.0 ports or more/above 1* VGA port 1 Dedicated Server Management Port
Power Supply	Hot Plug Redundant Platinum or better Power Supply with minimum 90% efficiency, cooling support, temperature monitor and reporting.
Server Cooling	Redundant, hot-swappable system cooling fans
OS Support	Support for Windows Server 2022 or above, RHEL 8+, VMware ESXi, Canonical Ubuntu, SUSE Linux Enterprise (SLES). Server should be certified by OS OEM for latest version of OS listed above
Warranty/Support	5 Year comprehensive warranty with on-site support for 24x7x365
	NIST SP 800-147B
	NIST SP 800-193
	PCIe 5.0 compliant
	USB 3.0 compliant
	Redfish API
	TPM 2.0 or above support

Industry Standard Compliance/System Security	AES / Triple DES (3DES)
	SSL
	Minimum TLS 1.2
	SNMP v3
	Energy Star certified
	UEFI Secure Boot
	ASHRAE A3/A4
	Support for Commercial National Security Algorithms (CNSA 2.0)
	ACPI 6.0 compliant
	Configuration lockdown to prevent unauthorized firmware drift,
	Secure Recovery - recover critical firmware to known good state on detection of compromised firmware/Ability to rollback firmware
Note-The quotation must be submitted in hard copy on or before 26/10/2026 to Room No -222, Computer Centre, IIT Kanpur	