



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Ref. PR No: 1000053381

RFx. No. 6100002734

Technical Specifications for GPU Server and Cards (Qty-1)

Sr. No	Item Description and Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Processor Two processors per system with single CPU populated initially and provision for second CPU. PCIe Gen 4.0 compliant. Minimum 64 physical cores / 128 threads with minimum 250 MB cache. Minimum 2.0 GHz base frequency per core. TDP per socket \leq 300 W.		
2	Memory Minimum 16 DIMM slots supporting DDR4 ECC Registered memory. Minimum 256 GB populated from day one at 2933/3200 MHz. Balanced memory channel configuration required.		
3	Storage 8 hot-swap 3.5"/2.5" SAS/SATA bays. 1 \times 1TB M.2 NVMe SSD and 3 \times 2TB Enterprise SATA HDDs. One free M.2 slot for expansion.		
4	Network Dual 10G RJ45 Ethernet ports.		
5	PCIe Expansion Free 3 \times PCIe Gen4 x16 slots and 1 \times PCIe Gen4 x8 slot.		
6	External Ports 1 \times VGA, 2 \times USB 3.0, 1 \times dedicated 1GbE RJ45 for IPMI.		
7	Co-Processor / Accelerator 1 accelerator populated with provision for two more. \geq 48 GB GDDR7 ECC, \geq 1344 GB/s bandwidth, \geq 14080 cores, \leq 300 W, active cooling, MIG support.		
8	Chassis Maximum 4U rack-mount chassis with rail kit, OEM approved, redundant cooling fans with sufficient airflow.		
9	Server Management Dedicated IPMI 2.0 port with health monitoring, PMBus/SMBus, event logs, KVM over IP, SSL, SSH v2, remote firmware update, Java-free console.		

10	Power Supplies 80+ Platinum 2000W redundant PSU in N+1 configuration with PMBus support.		
11	Certification Components certified and recommended by system board OEM.		
12	Power Cords & Cables IEC 320 rated power cables and required network cables supplied.		
13	OS Support Windows Server 2019/2022, RHEL 8.6–9.2, SUSE 15 SP4/SP5, Ubuntu 20.04/22.04 LTS, VMware ESXi 7.0/8.0, Citrix 8.2 LTSR.		
14	Additional Requirement Mainboard must be OEM branded with permanent PCB markings.		
15	Warranty 3 years comprehensive on-site advance replacement warranty.		
16	Environmental Compliance RoHS compliant.		
17	Data Sheet OEM datasheet submission mandatory.		
18	MII (Make in India) MII breakup declaration and BIS certificate mandatory.		
19	MAC Address MAC OUI registered in OEM name with self-declaration.		
20	System Utility with AI Frameworks Preloaded CPU & GPU optimized AI frameworks with licenses in customer name.		
21	Job Scheduler Job scheduler datasheet mandatory.		
22	MAF & BOM Manufacturer Authorization Form and detailed BOM required.		