



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

Ref. PR No. 1000041813

Rfx. No. 6100001837

4th Generation Server (Intel Xeon or substantially Equivalent) – 1 No.

Sr. No	Parameter	Technical Specification	Technical Compliance (Yes / No)	Additional Remark (if any)
1	Processor	Dual Socket System populated with One Intel Xeon 4th Gen processor (or Equivalent) with following: a) 56Cores, 112Threads b) At least 2.0 GHz base frequency per core across all cores c) TDP per socket must be within 350 W.		
2	Memory	8+8 Memory DIMM Slots Supporting DDR5 Server Memory At least 128 GB Registered ECC DDR5 memory with frequency of 4800 MHz Every memory channel from the processor(s) should be populated in a balanced configuration		
3	Storage-SSD	Server should have 8 x Hot-swap 2.5" 4 x NVME + 4 x SAS/SATA drive bays for future usage There should be minimum 2 x 2TB M.2 NVME Gen4 SSD + 2 x 4TB M.2 NVME Gen4 SSD pre-populated		
4	Network	2 RJ45 (10GbE)		
5	PCI expansion	Minimum 6 PCIe 5.0 X16 + 1 PCIe 5.0 X8		
6	External Ports	One VGA port, Atleast 2 USB 2.0 Type A ports + 7 USB 3.0 Ports Dedicated 1G ethernet port for IPMI		
7	Co-Processor/Accelerator	Server has to be populated with 1 number of accelerator Accelerator should have - 1. 32GB or more GDDR6 with ECC 2. 576GB/second or higher memory bandwidth 3. 16xPCIe Gen4 interface interconnect 4. 12800 accelerator cuda cores or more		

		<p>5. 65.3 TFLOPS Single-Precision Performance</p> <p>6. 4 x 1.4a Display Ports</p> <p>7. Max power consumption of 250 W</p> <p>8. Active cooling support</p> <p>9. Virtual accelerator support</p>		
8	Chassis	Appropriate Tower cum 4U Rackmount Chassis without rail-kit. Chassis should be populated with a maximum number of cooling fans that can be accommodated in the chassis and the cumulative air flow should be sufficient to take away the heat generated at peak load with fully populated hardware.		
9	Server management	Dedicated IPMI for Remote Management of the server		
10	Power Supplies	80+ Platinum Certified Single Power Supply. Power supplies should be only of the make/model approved for the motherboard. Power supply has to be minimum 2000Watt		
11	OS Support	<p>Microsoft® Windows®</p> <ul style="list-style-type: none"> - Server 2022 (64 bit) <p>Linux</p> <ul style="list-style-type: none"> - Red Hat Enterprise Linux Server 8.4 (64 bit) / 8.5 (64 bit) - SUSE Enterprise Linux Server 15 SP3 (64 bit) - Ubuntu 21.10 (64 bit) / 22.04.2 (64 bit) <p>Hypervisor:</p> <ul style="list-style-type: none"> - VMWare® ESXi 7.0 U3g / 8.0 		
12	Additional Requirement	The main-board of the system should be from the same brand of the supplied system. The main-board PCB should be "permanently printed" with the system brand markings but not through pasted stickers or removable markings.		
13	Warranty	<p>5 years comprehensive on-site advance replacement warranty</p> <p>The Server System Warranty should be tracked online on the OEM Website with full details (the key part with technical specifications) of pre-configured system from OEM.</p>		
14	Environment compliance	RoHS compliance		