



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

Ref. PR No.1000053581

RFx. No. 6100002744

Technical Description: Generic Server – 1 No.

The bidder shall quote a high-performance rack-mounted server meeting or exceeding the following minimum technical specifications.

Sr. No	Item Description and Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Processor: Dual-socket server with 2 processors, each with 96 cores / 192 threads, base clock ~2.3 GHz, large L3 cache (~256 MB), TDP ~320W. Total minimum cores: 192.		
2	Chipset: System-on-Chip architecture suitable for dual-processor operation.		
3	Memory: Minimum 12 x 64 GB DDR5 RDIMM, 6400 MT/s, ECC supported (Total 768 GB).		
4	Storage: Minimum 3 x 3.84 TB 2.5-inch enterprise-grade SATA SSDs.		
5	RAID Controller: Hardware RAID controller supporting RAID 0, 1, 5, 10 with 12 Gbps SAS interface and minimum 1 GB cache.		
6	Networking (AIOM): Dual port 1G Ethernet adapter.		
7	Networking (AOC): Dual-port 10G Base-T Ethernet adapter.		
8	Management: Dedicated out-of-band management supporting IPMI 2.0, virtual media, and KVM-over-LAN.		
9	Video: Integrated server-grade graphics controller for remote management.		
10	Expansion Slots: Minimum 3 x PCIe Gen5 x16, 4 x PCIe Gen5 x8, and 1 x OCP slot.		
11	I/O Ports: Minimum 2 x USB 3.0 (rear), 1 x VGA port, and 1 x dedicated RJ45 management port.		
12	AI Toolkit A containerization platform that includes pre-built containers with all major AI tools,		

	<p>such as Tensor Flow, PyTorch, and Keras etc. The containers should be compatible with both CPU and GPU environments. The platform repository must be installed locally. And should also offer support and installation services, including a job scheduler. Pre-installed AI/ML frameworks such as TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers, OpenCV, and equivalent tools. Datasheet should be attached with technical bid.</p> <p>Containerization platform with local repository, supporting CPU & GPU workloads, pre-built AI containers, job scheduler, and installation support.</p>		
13	Chassis: 2U rackmount chassis with minimum 8 x 2.5-inch hot-swappable drive bays.		
14	Power Supply: Redundant hot-swappable power supplies with minimum 1600 W capacity.		
15	Server should be supplied with pre-installed latest Ubuntu. System should be ubuntu certified and OEM should submit the OS certification with the bid and weblink must be attached.		
16	Warranty: Minimum 3 years comprehensive onsite warranty.		