



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076

PR No. 1000054854

RFx. No. 6100002970

### TECHNICAL SPECIFICATIONS OF GPU SERVER

Sr. No	Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	<b>Make</b>	Vendor should mention make of Server		
2.	<b>Model No</b>	The vendor shall provide the model number.  The vendor shall submit the product data-sheet along with the bid, clearly highlighting the specifications specified in this bid.		
3.	<b>Processor</b>	<b>Processor Family:</b> AMD EPYC or Intel Xeon (latest generation) or equivalent <b>Base frequency:</b> 2.6 GHz or better per processor <b>Cache:</b> 4 MB or higher per core <b>Sockets:</b> 2 (Identical processors) <b>Physical Cores:</b> 96 per processor (Total 192 cores) <b>Thermal Design Power (TDP):</b> 360W or lower per processor		
4.	<b>Memory</b>	2,304 GB DDR5 ECC RDIMM, supporting up to 6 TB total memory within the system.  <b>Note:</b> The quoted memory frequency shall be the highest memory frequency supported by the proposed processor. Any deviation between the quoted memory frequency and the processor's		

		supported memory frequency may lead to rejection of the bid.		
5.	<b>Drive</b>	8 x 3.84 TB SATA SSD 2.5" drives configured in RAID 5		
6.	<b>RAID Controller</b>	Hardware RAID Controller with RAID 0/1/5/6/10/50/60 Support		
7.	<b>GPU Accelerator</b>	2 x NVIDIA H200 NVL (141 GB) PCIe passive-cooled accelerators with NVLink bridge, and furthermore the system shall support up to 5 additional GPUs of the same series without requiring any additional components or upgrades to the base system or substantially equivalent		
8.	<b>Ethernet Networking</b>	Dual Gigabit Ethernet LAN Ports & Dual 10 Gigabit Ethernet LAN Ports		
9.	<b>Power Supply</b>	Minimum 2700W redundant power supply (configured N+1 or 3+1) of Platinum or Titanium efficiency grade to support the fully configured server with 7 nos of NVIDIA H200 NVL graphics cards at peak performance, considering full system expandability and maximum GPU load or substantially equivalent		
10.	<b>Management Port</b>	<p>Dedicated 1 Gbps RJ45 out-of-band management port for administrative use, supporting standard remote management protocols (e.g., IPMI 2.0/iDRAC/REST/Secure access) with web-based GUI, command-line interface, hardware monitoring, remote power control, console redirection, and secure access.</p> <p>The bidder shall provide documentation confirming supported management features and protocols.</p> <p>Note: The Management software should be of same OEM as offered server.</p>		

11.	<b>Operating System</b>	Latest Redhat Opensource / Ubuntu LTS 24 or newer or equivalent		
12.	<b>Certification</b>	The proposed system shall be certified for supported operating systems on the official OEM website, and the offered model number must be visible on the OEM website along with documented OS support information.		
13.	<b>Form Factor</b>	Rack - mount server housed in a 4U form-factor chassis with 20 or more hot-swappable 2.5-inch drive bays		
14.	<b>Pre-Installed Software &amp; Libraries for GPGPU</b>	TensorFlow, PyTorch, MXNet, Caffe, CNTK		
15.	<b>Warranty</b>	Three (3) years onsite warranty with next business day onsite diagnostic support. The vendor shall provide comprehensive onsite service including fault diagnosis, repair, and parts replacement during the warranty period. Documentation confirming the warranty terms and service response commitment shall be submitted with the bid.		
16.	<b>Other Deliverable</b>	Rack mounting kit and all required cables to make the system functional, including but not limited to power cables, network cables, and interconnect cables as applicable.		
17.	<b>Other Terms &amp; Scope of Works:</b>	a) Vendor has to deliver, install and commission the server in IIT Bombay premises.		
		b) OEM should have sales and support office in India atleast for 5 Years.		
		c) Bidder should submit a minimum of 3 number of similar PO of solution supplied by them in the last 2 financial years along with the respective installation report		

		as a proof of their expertise of supplying & maintaining the solution.		
		d) OEM should take care of the entire solution till the warranty period (for update/ upgrade of software & hardware). Same will be required on OEM's letter head.		
		e) The OEM shall provide an online service-request facility on its official website for raising any concerns or support requirements.		
		f) Vendor should submit Manufacturer's Authorization Letter (MAF) from OEM(s) of proposed solution, including back-to-back support confirmation. The letter should be specifically for this tender on OEM's original letter head with contact details, duly signed by authorized signatory with designation.		
		g) The proposed hardware should be compatible with Ubuntu 24 or above and all required drivers should be available for the OS. OEM/Vendor shall provide a self-certification for the same.		
		h) OEM must share dedicated drivers download link for quoted specific models from OEM website.		
		i) Entire support and application installation shall be directly from the OEM side.		
		j) OEM should have 5 Crores average turn over for the last 3 Financial Years.		