

**DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF EQUIPMENT, IMPLEMENTATION AND MAINTENANCE OF AI LAB FOR NITTTR CHANDIGARH**

S.No.	Chapter No.	Clause as per RFP	Revised Clause as per RFP
1	Section-1 Important Dates	Last date & Time for receipt of Bids 08/10/2025, 14:00 Hrs.	Last date & Time for receipt of Bids 13/10/2025, 14:00 Hrs.
2	Section-1 Important Dates	Date and Time of Opening of Technical Bids 08/10/2025, 15:30 Hrs.	Date and Time of Opening of Technical Bids 13/10/2025, 15:30 Hrs.
3	CHAPTER-VI 6.2 Pre-Qualification/Eligibility Criteria	The bidder shall be in business for the last 4 years and shall have 4 years of experience as on date in the following areas: Supply and maintenance of AI based labs with NVIDIA servers such as H200 or H100 or A100 or any NVIDIA GPU server or InfiniBand Switching used in AI Lab.	The bidder shall have business experience in any of the last 4 years, as of the tender floating date, in the following areas:  Supply and maintenance of AI based labs with NVIDIA servers such as H200 or H100 or A100 or any NVIDIA GPU server or InfiniBand Switching used in AI Lab
4	CHAPTER-VI 6.2 Pre-Qualification/Eligibility Criteria	The firm should be a profit-making concern for each of the last three consecutive financial years (FY 2022-23, 2023-24, 2024-25).	The firm should be a profit-making concern for each of the last three consecutive financial years (FY 2022-23, 2023-24, 2024-25). In case audited results are not available for 2024-25, then bidders can submit audited results for (FY 2021-22, 2022-23, 2023-24)
5	CHAPTER-VI 6.2 Pre-Qualification/Eligibility Criteria	The Bidder should have minimum 30 Crores annual average turnover for the last three financial years ending on 31st March 2025	The Bidder should have minimum 30 Crores annual average turnover for the last three financial years ending on 31st March 2025. In case audited results are not available for 2024-25, then bidders can submit audited results for (FY 2021-22, 2022-23, 2023-24)

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6	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified)	NVIDIA H200 GPU HGX certified	GPUs Node NVIDIA H200 GPU HGX/DGX certified
7	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified)	<p>Barebone Server: 8U Rackmount 8 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays 8x PCIe Gen5 x 16 for East West Network to be populated with 8 x NVIDIA Connect X-7 (1x400G)</p> <p>5x PCIe Gen 5 x 16 for North South Network – to be populated with 2 x Cards with NVIDIA Connect X 7 (2x200G)</p> <p>Supports 2 M.2 (PCIe3.0 x4 or SATA 6Gb/s)</p> <p>1 OCP NIC 3.0 (PCIe5.0), 2 x 10GbE RJ45 Ethernet 1x 1 GbE RJ45 Remote Management (IPMI) RAID support or NVMe pooling for drive bays</p>	<p>Barebone Server: Maximum 8U Rackmount 8 hot-swap 2.5" NVMe (PCIe4/5 x4) drive bays 8x PCIe Gen4/5 x 16 for East West Network to be populated with 8 x NVIDIA Connect X-7 (1x400G)</p> <p>4 x PCIe Gen4/5 x 16 North South Network – to be populated with 2x Cards with NVIDIA Connect X 7 (2x200G)</p> <p>Supports 2 M.2 (PCIe3.0 x4 or SATA 6Gb/s)</p> <p>1 OCP NIC 3.0 (PCIe4/5)/ 2 x 10GbE RJ45 Ethernet 1x 1GbE RJ45 Remote Management (IPMI) RAID support or NVMe pooling for drive bays</p>
8	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified)	<p>Processor: Dual Intel® Xeon® Platinum series 5th Generation Processors having 112 Cores total, 2.00 GHz (Base) and 3.80 GHz (Max Boost) or better. Equivalent AMD 9005 series processor</p>	<p>Processor: Dual Intel® Xeon® Platinum series 5th/4th Generation Processors having 112 Cores total, 2.00 GHz (Base), 3.80 GHz (Max Boost) or better. Equivalent AMD 9004/9005 series processor</p>
9	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified)	<p>Storage (Data): Min. 2x 1.92 TB NVMe U.2/U.3 SSD</p>	<p>Storage (Data): Min. 15 TB NVMe U.2/U.3 SSD</p>

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10	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified), Head Node/ Master Node	Additional	Server must include built-in remote KVM functionality with out-of-band management that provides BIOS-level access without requiring an external KVM device.
11	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified), Head Node/ Master Node	Server Security	The server should support Immutable silicon Root of trust for firmware security
12	ANNEXURE-XVI GPUs Node (NVIDIA H200 GPU HGX certified), Head Node/ Master Node	Server Security	Tamper-free updates – digitally signed and verified
13	ANNEXURE-XVI Head Node/ Master Node	2 numbers of 5th generation processors with (Min. 2.6GHz, 64MB L3 Cache, 16C/32T, or better)	2 numbers of 4th/5th generation processors with (Min. 2.6GHz, 64MB L3 Cache, 16C/32T, or better)
14	ANNEXURE-XVI PFS 100 TB Specification	Lustre based Storage should be directly supported by the Storage OEM. Minimum usable capacity of 100TB using NVMe SSD only. Minimum 30GB/s Read / Write independently.	Lustre/GPFS/Weka/VAST/Any other Storage should be directly supported by the Storage OEM. Minimum usable capacity of 100TB using NVMe SSD only. Minimum 30GB/s Read / Write independently.
15	ANNEXURE-XVI PFS 100 TB Specification	Description: per controller min. 2xIntel/AMD 16 Core processor,4x64GB RAM,2x 2x200G IB ports, with 3 years onsite warranty	Description: per controller min. 2xIntel/AMD 16 Core processor,4x64GB RAM,2x200G IB ports, with 3 years onsite warranty
16	ANNEXURE-XVI Switch- 48-Port RJ45 Switch (10G)	Layer 3 Features: Static routing; OSPF, IS-IS, ECMP, BGP available in advanced-license or firmware	Layer 3 Features: Static routing; OSPF/IS-IS, ECMP, BGP available in advanced-license or firmware
17	ANNEXURE-XVI Switch- 48-Port RJ45 Switch (10G)	Management: Web GUI, SSH/CLI, SNMP v2/v3, RMON, REST/YANG API	Management: Web GUI/ SSH/CLI, SNMP v2/v3, RMON, REST/YANG API

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18	ANNEXURE-XVI Switch- 48-Port RJ45 Switch (10G)	Physical / Environmental: 1RU rack-mountable; –5 °C to +45 °C; 5 – 90% RH non-condensing	Physical / Environmental: 1RU rack-mountable; 0 °C to +45 °C; 15–90% RH non-condensing
19	ANNEXURE-XVI Switch- 48-Port RJ45 Switch (1G)	Power Supplies: Dual- redundant, hot-swappable AC units (min. 500 W each)	Power Supplies: Dual- redundant, hot-swappable AC units with power supply
20	ANNEXURE-XVI Switch- 48-Port RJ45 Switch (1G)	Physical / Environmental: 1RU rack-mountable; –10 °C to +50 °C; 5–95% RH non-condensing	Physical / Environmental: 1RU rack-mountable; 0 °C to +45 °C; 15–90% RH non-condensing
21	ANNEXURE-XVI Smart Rack Cooling	Smart Rack with inbuilt hot and cold aisle containment, should cater IT load up to 15 kW. Both Hot & Cold aisle containment should be part of the rack frame. With dual power source.	Smart Rack with inbuilt hot and cold aisle containment, should cater IT load up to 20 KW for GPU server rack (Rack no. 1) and upto 15 KW (Rack no. 2). Both Hot & Cold aisle containment should be part of the rack frame. With dual power source.
22	ANNEXURE-XVI Smart Rack Cooling	Precision Air Conditioner to cater 15 KW variable capacity / digital scroll) with N+N redundancy, including copper pipe with proper insulation, tray, cable between indoor and outdoor unit with complete accessories including inbuilt Heater & Humidifier, plumbing work	Precision Air Conditioner to cater 20 KW for GPU server rack (Rack no. 1) and upto 15 KW (Rack no. 2) variable capacity / digital scroll) with N+N redundancy, including copper pipe with proper insulation, tray, cable between indoor and outdoor unit with complete accessories including inbuilt Heater & Humidifier, plumbing work
23	ANNEXURE-XVI Smart Rack Cooling	Rack Mount 15KW UPS with Communication Card, with combined 60 mins external battery backup	Rack Mount 20 KW for GPU server rack (Rack no. 1) and upto 15 KW (Rack no. 2) with Communication Card, with combined 60 mins external battery backup
24	Other	Additional	As per MII Annexure
25	Other	Additional	The OEM must possess a well- established service infrastructure within India and strategically located inventory across the country.

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26	Other	Additional	<p>The offered OEM for compute infrastructure (GPU-based servers) must have a registered office and permanent establishment in India.</p> <p>Following details must be publicly available on the OEM's official website:</p> <p>a) Office Locations in India.</p> <p>b) Toll-free customer support number.</p> <p>The above details must be verifiable on the OEM's official website at the time of bid submission.</p>
27	Other	Additional	<p>The GPU server OEM should have min 10 installations in top 500 in Top500.org list and atleast 1 in India's TOP100 HPC list maintained by C-DAC.</p>