



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

PR No.1000019537

RFx No. 6100000781

Technical Specifications of Scalable Storage Server

| SI. No. | Item Name | Quantity | Technical Specifications of Scalable Storage Server | | | |
|---------------|---|----------|---|-----------------------------|--|---|
| | | | Component Name | | Component Quantity | |
| 1 | Server Node (Rack Mountable with mounting rails) | 2 | A. Processor | | | 2 |
| | | | 1 | Manufacturer | AMD | |
| | | | 2 | Model No | EPYC 7282 | |
| | | | 3 | No. of Cores | 16 | 1 |
| | | | B. Motherboard | | | |
| | | | 1 | Compatibility | Based on processor | |
| | | | 2 | Processor Config | Dual | |
| | | | 3 | Min. no. Memory Ch. | 6 | |
| | | | 4 | Min. no. of DIMM slots | 16 | |
| | | | 5 | Chassis Form Factor | Rack | |
| | | | 6 | Min. no. of USB Ports | 4 | |
| | | | 7 | Min. no. of LAN ports | 2 x 10GbE(network card can be included if inbuilt port not available), 1 GbE (mgmt port) | |
| | | | 8 | Min. PCIe 4.0 slots (total) | 4 | |
| | | | 9 | Min. PCIe 4.0 x16 Slots | 2 | |
| | | | 10 | RAID Configuration | One of RAID 0,1,5,10 | |
| 11 | Min. no. of M.2 slots | 1 | | | | |
| C. RAM | | | 4 | | | |
| 1 | ECC Supported RAM | 16 GB | | | | |

| | | | | | |
|----------|-----------------------------------|------------|---|--|---|
| | | | D. Optical drive DVD-RW | either inbuilt or external | 1 |
| | | | E. Graphics | Standard on-board or external graphics card (enabling us to connect a monitor) | 1 |
| | | | F. Power Supply | | |
| | | | 1 | Min. no. Redundant hot-swap Power Supply modules | 2 |
| | | | 2 | Wattage | PSU should be able to power the motherboard components with further possible expansions (if additional RAM, GPU is added in future). - |
| | | | G. Storage | | |
| | | | 1 | Minimum no. of hot swappable 3.5” HDD disk bays | 12 - |
| | | | 2 | Hard Disk | 3.5” SAS 12G 16TB 7200RPM HDD 1 |
| | | | 3 | Boot Drive | Samsung 970 EVO Plus 500GB PCIeNVMe M.2 (2280) 1 |
| 2 | Power cable and connectors | N/A | All power cables and connectors necessary to run the system. | | |
| 3 | Software | N/A | Ubuntu 20.04 LTS Server edition. The Server management software should be configured in one node being master and other being compute node. Software should allow for further expansion. . | | |
| 5 | Warranty | N/A | A. Hardware: Bidder to include 3 years warranty for all hardware components in the quote. B. Software: Bidder should provide complete software (Operating System) support for the warranty period. | | |
| 6 | Other Terms | | A. Bidder should provide support for installation and troubleshooting of software from authorized Developers under the project. B. Bidder should provide at no additional cost, spare of good quality, before taking faulty hardware for repair/replacement. C. Bidder should provide 3 year licence for all mandatory software required to run the system. | | |
| | | | | | |
| 7 | Ethernet Switch | 1 | A. 8-port 10-Gigabit L2 Managed Switch B. Necessary 10-Gigabit cables needed to connect all the applicable items in the proposed solution within 1-2 meters. | | |
| 8 | Rack | 1 | Should fit the Ethernet switch, master and compute nodes and should allow for reasonable future expansion (24 U). The rack doors should be perforated metal. | | |

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|-----------|--------------------------|----------|--|--|
| 9 | UPS and Battery | 1 | UPS of appropriate specification with 1 hour battery back-up | |
| 10 | Hard Disk | 4 | 3.5" SAS 12G 16TB 7200RPM HDD | |
| 11 | ECC Supported RAM | 8 | 16 GB | |