

## INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

## <u>Technical Specification</u>:

## **Scalable Storage Server**

SI. No.	Item Name	Specification	Quantity
1	Master Node	A. Processor (Qty: 1) i. Launch Date: After Q1(Mar-May)-2018 iii. Cores: 16 iii. HyperThread: Yes iv. ECC Support: Yes v. Min. no. Memory Ch.: 6 B. Motherboard i. Compatibility: Based on processor ii. Processor Config: Dual iii. Min. no. Memory Ch.: 6 iv. Chassis Form Factor: Rack v. Min. no. of QPI Links: 2 vi. Min. no. of USB Ports: 6 vii. LAN ports: 4 x 10GbE C. RAM i. 64GB DDR4 Registered ECC (4 x 16GB); support upto 24 dimm slots needed (12 per processor) D. Optical drive Ultra-slim DVD-RW (inbuilt) mandatory (Qty: 1) E. Graphics: Standard onboard F. Redundant hot swap Power Supply modules(Qty: minimum two) G. Standard with 4 PCle 3.0/4.0 slots, at least 3 PCle 3.0/4.0 x16 slots; USB 2.0 and 3.0,1 x VGA, 2 x RJ45 LAN ports, 1 x RJ45 Management Port H. Storage i. Minimum 12 hot swappable 3.5" disk bays should be available ii. 12 x 3.5" SAS 12G 4TB 7200 rpm HDD's should also be provided (usable at least 40 TB) iii. RAID Configuration: RAID 0,1,3,4,5,10 I. Rack-mountable with mounting Rails	1
2	Compute Node	A. Processor (Qty: 1) i. Launch Date : After Q1(Mar-May)-2018	1

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		<ul> <li>ii. Cores : 16</li> <li>iii. HyperThread: Yes</li> <li>iv. ECC Support : Yes</li> <li>v. Min. no. Memory Ch. : 6</li> <li>B. Motherboard</li> <li>i. Compatibility : Based on processor</li> <li>ii. Processor Config : Dual</li> <li>iii. Min. no. Memory Ch. : 6</li> <li>iv. Chassis Form Factor : Rack</li> <li>v. Min. no. of QPI Links : 2</li> <li>vi. Min. no. of USB Ports : 6</li> <li>vii. LAN ports : 4 x 10GbE</li> <li>C. RAM</li> <li>i. 64GB DDR4 Registered ECC (4 x 16GB); support upto 24 dimm slots needed (12 per processor)</li> <li>D. Optical drive Ultra-slim DVD-RW (inbuilt) mandatory (Qty: 1)</li> <li>E. Graphics: Standard onboard</li> <li>F. Redundant hot-swap Power Supply modules (Qty: minimum two)</li> <li>G. Standard with 4 PCle 3.0/4.0 slots, at least 3 PCle 3.0/4.0 x16 slots; USB 2.0 and 3.0,1 x VGA, 2 x RJ45 LAN ports, 1 x RJ45 Management Port</li> <li>H. Storage <ol> <li>i. Minimum 12 hot swappable 3.5" disk bays should be available</li> <li>ii. 12 x 3.5" SAS 12G 4TB 7200 rpm HDD's should also be provided (usable at least 40 TB)</li> <li>iii. RAID Configuration: RAID 0,1,3,4,5,10</li> </ol> </li> <li>I. Rack-mountable with mounting Rails</li> </ul>	
3	Ethernet Switch	<ul> <li>a. 12-port 10-Gigabit L2 Managed Switch</li> <li>b. Redundant Power supply (inbuilt or onboard only) mandatory.</li> <li>c. Necessary CAT- 6 cables needed to connect all the applicable items in the proposed solution within 1-2 meters.</li> </ul>	1
4	Rack	Should fit the ethernet switch, master and compute nodes and should allow for reasonable future expansion (upto 2 nodes)	1
5	Software	Bidder should install Ubuntu 18.04 LTS Server edition in both master and compute nodes.	
6	Power cable and connectors	Bidder should supply all power cables and connectors necessary to run the system.	
7	UPS and Battery	Bidder should supply UPS of appropriate specification with 1 hour battery back-up	1

8	Warranty	<ul> <li>a. Hardware: Bidder to include 3 years warranty for all hardware components in the quote.</li> <li>b. Software: Bidder should provide complete software (Operating System) support for the</li> </ul>
9	Other terms	<ul> <li>warranty period.</li> <li>a. Bidder should provide support for installation and troubleshooting of software from authorized Developers under the project.</li> <li>b. Bidder should provide at no additional cost, spare of good quality, before taking faulty hardware for repair/replacement.</li> </ul>
		c. Bidder should provide 3 year licence for all mandatory software required to run the system.