

Servers to be supplied (Quantity 2) for Mumbai and New Delhi RO -----Please refer this specification sheet to fill up Form 5 (Technical Proposal Form) and BOQ

**Servers (2 Nos)**

Sno	Component	Description	Proposed Make/Model	Compliance	Offered specification
1	Processor	Intel Xeon Silver 4110 2.1Ghz 8Core, 9.6GT/s 11M Cache, 85W DDR4-2400 Processors			
2	Chipset	Compatible Chipset			
3	Memory	16GB DDR4-2400-MHz RDIMM			
4	DIMM Slots	Server should support min 24 DIMM slots and should be scalable upto 768GB DDR4 memory with Higher size DIMMS.			
5	Memory Property	Support for DDR4 registered RDIMMs and LRDIMMs Advanced error-correcting code (ECC) Independent Channel Mode Mirrored Channel Mode Lockstep Channel Mode etc			
6	Hard Disk	1.2 TB 12G SAS 10K RPM LFF HDD			
7	Hard Disk bays	Server should be provided with 16 x 2.5" Hot-plug disk drives bays			
8	RAID Controller and Features	12Gbps Modular RAID (PCIe Gen 3.0) controller or 12 Gbps up to 8 SAS/SATA disk drives or SSDs. Embedded software RAID (Entry RAID solution) should support RAID 0, 1, 5, and 10 for up to 4 SATA drives. 12Gbps SAS host bus adapter (HBA) provides external SAS connectivity and supports JBOD/enclosures. Hardware 12Gbps SAS RAID controller Raid 0, 1, 10, & 5 Online RAID Level Migration (RLM) Auto resume after power loss during array rebuild or reconstruction Check Consistency for background data integrity Physical disk power management Error recovery support			
9	I/O Ports	2 X 10Gb BaseT Ports and 4 x 1GbE ports 5 xUSB Ports (2 Front, 2 Rear and 1 Internal), 2 xVideo Ports, 1 x Serial Port,			
10	FC HBA	Dual port FC HBA			
11	SD Cards	Internal Dual 32GB SD Cards for hypervisor boot and failsafe			
12	Expansion Slots	Atleast 8 PCIe Gen3 slots (2 nos of PCIe x16 slots and 6 nos of PCIe x8 slots)			
13	Remote Management	<ul style="list-style-type: none"> <li>• Vendor should provide embedded features that helps to manage Servers in physical, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent.</li> <li>• Power Management should give historical data for atleast 72 hours.</li> <li>• Should also support IPv6.</li> <li>• Dedicated remote management port</li> <li>• Should support remote scripted reconfiguration tools.</li> <li>• Should be able to monitor all systems components (CPU, RAM, HD, FANS, Power Supplies, BIOS, HBA's, NICs, CNA's).</li> <li>• Should have USB log monitoring.</li> <li>• Should Support upto 16GB vFlash memory for keeping system logs and downloading firmware from OEM website or internal repository</li> <li>• Should support Zero touch deployment and provisioning</li> <li>• Automatically restore hardware configuration and license information during system board replacement and return system to production in minutes using the in-chassis backup with</li> </ul>			
14	Boot storage	Server should support Boot optimized storage cards for Operating system boot			
15	Security Features	<ul style="list-style-type: none"> <li>• Server should detect an invalid, untrusted BIOS image when a boot is attempted and recover to an authenticated, trusted BIOS image through BIOS recovery.</li> <li>• Server should have the capability to prevent any configuration or firmware changes by an unauthorized person through System Lockdown.</li> <li>• Server should support firmware updates only via signed authenticated firmware images from the OEM to prevent malicious attacks on firmware</li> </ul>			
16	Power Supply	Redundant Power Supply , Hot-pluggable, redundant 770W power supplies.			
17	Operating System & Software support	Microsoft® Windows Server® 2019 (includes Hyper-V®)			

18	Failure Alerting Mechanism	The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processors, memory, PCIe slots, VRMs, power supplies, fans, hard disk drives			
19	Form Factor	2U Rack Mount			
20	DVD	Internal DVD-RW			
21	Warranty	5 years 24 x 7 x 4 Hour Comprehensive onsite warranty.			
22	Rails	Must be supplied with sliding rack rails			

SERVER BOQ	Quantity
RU Server with mentioned configuration	2
Intel Xeon Silver 4110 2.1Ghz 8Core, 9.6GT/s 11M Cache, 85W DDR4-2400 Processors	4
16GB DDR4-2400-MHz RDIMM	2
1.2 TB 12G SAS 10K RPM LFF HDD	4
750W AC Power Supply for Rack Server	4
AC Power Cord - 250V, 10A , India	4
Ball Bearing Rail Kit rack servers	2
HDD blanking panel	4
Supercap cable 950mm	2
Heat sink fo rack servers	4
MLOM Blanking Panel	2
12G SAS Modular Raid Controller	2
12Gbps SAS 2GB FBWC Cache module (Raid 0/1/5/6)	2
5YR 24X7X4 Support	All included charges should be mentioned along with Hyderabad HO
Installation and Migration related activity charges	All included charges should be mentioned along with Hyderabad HO