

ANNEXURE-VOL-3.13
MINIMUM TECHNICAL SPECIFICATION FOR SERVER

Sr. No.	Item	Parameters	Matched? (Yes/No)	Deviation from specification / Remarks, if any.
A.	<u>Rack Server</u>			
1	Form Factor	2U or Higher Rack Mountable		
2	CPU	2 Nos. X Intel® Xeon® E5-2650 v4 2.20 GHz (Max 2.90GHz with turbo frequency) 30MB, Cache, 12 Core per Processor or higher.		
3	Memory	16GB X 8 Nos. = 128GB Registered (RDIMM) DDR4 memory, operating at 2133 MHz. Memory scalable up to 768GB or Higher		
4	Chipset	Intel C610 series chipset or latest		
5	HDD Bays	Minimum 8 Hot Plug 2.5” Hard disk bays and scalable up to 16 bays in same server		
6	Hard Disk Drives	(a) Minimum 3 Nos. X 2.5” 600GB (or Higher Capacity) 6Gbps 10000RPM Hot Plug SAS drives.		
		(b) Installable up to minim 8 Drives from day one.		
7	Storage Controllers	SAS RAID Controller supporting RAID 0,1,5,6,10 (From Day one) with 1GB Cache memory with battery backup.		
8	Networking features	4 Nos. of 01Gbps Ethernet Ports + 2 Nos. of 10Gbps FC LAN Ports with support of TCP/IP, Wake on LAN, Failover, Fault Tolerance.		
10	Ports	2 Front and 2 Rear USB ports, 1 serial Port, 2 RJ-45 port, 1 VGA, 1 Management Port (TCP/IP based).		
11	Graphic Card	16MB Memory onboard graphic VGA port.		
12	HBA	Single port 8 Gb OFC HBA X 2 Nos. for redundancy to connect with proposed Storage Directly with FC Cable.		
13	Optical Drive	01 No. of DVD/CD-RW Combo Drive		
14	Slots	Minimum 04 Nos. of PCIe Slots scalable to 06 Nos. of slots		
15	System Management Software (Please Specify name)	OEM Server management software should be GUI based with functionary/features mentioned below:		
		(a) Alerts for monitoring health of critical		

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		<p>components.</p> <p>(b) Smart Embedded systems Management should be able to automate task like discovery deploy monitor and update.</p> <p>(c) Server should have feature of Remote Management from BIOS level, Pre-failure alert, Early notification of potential or actual failures to prevent a server failure or reduce recovery time after failure, secure access to remote servers, deployment and simplified serviceability through Local as well as Remotely.</p> <p>(d) View / Manage Server Health, Inventory and monitor network adapters and storage subsystem, View sensor information such as temperature, voltage, and intrusion, Monitor CPU state, processor automatic throttling, and predictive failure, Deploy operating systems using remote file share, virtual media, and VMCLI.</p> <p>(e)Should support automatic check & update of hardware drivers & BIOS Version Control. Update / roll back firmware support.</p>		
16	Diagnostics Features	System error LEDs on Front Panel in case of component failure.		
17	Power Supply	Minimum 750W Hot Swappable High Efficiency Redundant Power Supplies (1+1).		
18	OS Support	Microsoft Windows Server 2008R2 and higher, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES).		
19	Operating System	2 Nos. of latest Microsoft server license with latest release and updates.		
20	Virtualization Support	The system should be virtualization platform like Hyper-V, VM Ware, Citrix, KVM.		
21	Mounting Kit	Sliding Rack mounting kit for 2U rack server.		
22	Compatibility	Quoted Server should be supported and compatible with the existing Storage, Hardware and software Complete Integration of all quoted items should be ensured by bidder for complete functionality of the system. Required all cables (Fibre, Copper, Power), tools or accessories shall be provided by vendor in the quote.		

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B.	Firewall	Rack mount Fortinet-Fortigate 90D firewall		
C.	UPS	rack mount UPS suitable for quoted server		
D.	KVM	rack mount KVM switch and rack mount KVM		
E.	RACK	Server Rack to accommodate above all equipments(A.to E.) and accessories		
	Warranty For all Items as above A. to E.	24x7 FIVE years on-site comprehensive warranty with parts, labour, upgrades and updates for software components. During warranty period, all parts including consumables to be replaced / repaired by vendor irrespective of type of damage occurred at free of cost.		
	OEM Undertaking / Authorization Letter For all Items as above A. to E.	Bidder/SI should have a back-end / back-to-back support contract/agreement/arrangement specifically against this tender for services including supply of spare parts, expertise requirements etc. with Original Equipment Manufacturers (OEMs) which includes the post sales support activities to meet the Service Level Agreement (SLA) mentioned for the entire warranty period. The OEM undertaking/Authorization letter on OEM letter Head in this regard should be submitted along with the bid mentioning this tender No.		
	NOTE	Bidder has to specify the hardware, OS, Software requirement for the applications offered by them with proper cyber security software as per the scope of the project.		

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