

Item	Qty	Make and Model
2U Rack Servers with Microsoft Windows Server 2022 or later license and Warranty for 3 Years	3	

### 1. Technical Specifications

Sr. No.	Item	Description of Requirement	Compliance (Yes/No)	Offered Specifications/Values
1.	<b>Form Factor</b>	2U Rack Mountable with sliding rails		
2.	<b>CPU</b>	Dual 4th Generation Intel Xeon Gold 32 Cores 2.1 GHz Scalable Processor or higher		
3.	<b>Memory</b>	512GB DIMMS scalable upto 8.0 TB using DDR5 Registered DIMM (RDIMM) operating at 4800 MT/s. Should have min. 32 DIMM slots.		
4.	<b>Bus Slots</b>	Server should have min. two PCIe 5.0 x8 slots.		
5.	<b>Hard Disk</b>	Min. 2 x 480GB NVMe/SSD Hot Plug with RAID 1 for OS, Min. 10 x 2.4 TB HDD SAS 10k RPM 2.5in HOT-Plug with RAID 6 for data		
6.	<b>Hard Disk Bays</b>	Server should support min. 24 SFF "SAS/SATA (HDD/SSD)" and NVMe		
7.	<b>Controller</b>	Hardware 12Gbps 8GB RAID controller with Raid 0, 1, 5, 6 Support		
8.	<b>Network Cards</b>	Server should have networking cards of 10Gb 4-port Ethernet adaptors or more with 10G BASE-T transceivers.		
9.	<b>Interfaces</b>	Min 1 x Serial Port		
		Min. 2 x USB 3.x Ports		
		Min. 1GbE Dedicated management port		
10.	<b>Power Supply</b>	Min. Platinum Grade Hot Plug Redundant power supplies (Min. 94% efficiency)		
11.	<b>Fans</b>	Redundant hot-plug system fans		

12.	<b>Industry Standard Compliance</b>	PCIe 5.0 Compliant		
		WOL Support		
		Energy Star Compliant		
		Min. SMBIOS 3.2 Compliant		
		PXE Support		
		Min. UEFI 2.7 Compliant		
		IPMI 2.0		
		SNMP v3		
		TLS 1.2		
13.	<b>System Security</b>	Secure Boot and Secure Start support		
		Tamper-free updates - components digitally signed and verified		
		Silicon Root of Trust		
		Ability to rollback firmware		
		Secure erase		
		TPM (Trusted Platform Module) 2.0		
		Secure Recovery - recover critical firmware to known good state on detection of compromised firmware		
14.	<b>Operating Systems</b>	Microsoft Windows Server 2022 or later		
15.	<b>Operating Systems and Virtualization Software Support</b>	Microsoft Windows Server with Hyper-V		
		Red Hat Enterprise Linux (RHEL) 9.x		
		SUSE Linux Enterprise Server (SLES)		
		VMware ESXi		
		Canonical Ubuntu		
16.	<b>Firmware security</b>	Should prevent server from booting up unless the firmware matches the fingerprint in the silicon of remote management chip. This feature should be immutable.		
		Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware		
17.	<b>Embedded Remote Management</b>	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins		

		Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, system health monitoring. Support for multifactor authentication.		
		Should have dedicated 1Gbps out-of-band remote management port.		
		Monitoring and record changes in the server hardware and system configuration for diagnosing problems and delivering rapid resolution when system failures occur		
		Should be capable to managing multiple servers as one via Group Power Control, Group Power Capping, Group Firmware Update, Group Configuration, Group Virtual Media and Encrypted Virtual Media, Group License Activation		
		Should display Security Status for the system, and Server Configuration Lock features.		
		One-button Secure Erase designed to decommission/repurpose servers		
<b>18.</b>	<b>Server Management</b>	Software should have dashboard view to quickly scan the managed resources to assess the overall health of the server.		
		The Dashboard should display a health summary of Server Profiles, Server Hardware, Appliance alerts.		
		Zero Touch Provisioning (ZTP) using SSDP with remote access		
		Proactive notification of actual or impending component failure alerts on critical components like CPU, Memory, NIC and HDD.		
		The Server Management Software should be of the same brand as of the server OEM.		
		Should provide an online portal with product details, support		

		contract and warranty status. The portal should be accessible from anywhere.		
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## 2. Terms & Conditions

Sr. No.	Requirements	Details	Compliance (Yes/No)
1.	<b>OEM &amp; Vendor Qualification</b>	Vendor should have IT sales and support office within Ahmedabad Municipal limits. Documentary proof for the same shall be provided without which the quote is liable to be rejected. <b>Vendor and OEM must not be blacklisted as on bid submission date by any Government Organization in India. Vendor and OEM shall provide self-certification documents for the same.</b>	
2.	<b>Installation &amp; Commissioning</b>	Installation & configuration shall be carried out by an OEM certified engineer. Installation and commissioning should be carried out within 30 working days from date of delivery at SAC, Ahmedabad. Vendor should make the system operational.	
3.	<b>Acceptance</b>	<b>ATP is likely to be completed within One month after Installation.</b> ATP documentation, detailed tests and stable system configuration shall be prepared by OEM/Vendor and approved by SAC. Item-wise specifications compliance shall be demonstrated by vendor and approved by SAC.	
4.	<b>OEM Authorization and support certificate</b>	OEM authorization letter must be submitted for tender specific reference number. The certificate should also mention that the Vendor has back-to-back support from OEM for after sales service of the supplied servers for entire period of warranty. <b>Without this letter, the quote is liable to be rejected.</b>	
5.	<b>Availability of items</b>	Vendor must not quote items which are or are going to be declared 'End of Support' by OEM in next 5 years for software from the date of tender.  Vendor must not quote items which are declared 'End of Sale' by OEM in next 3 years from the date of tender. Documentary Proof should be attached.	
6.	<b>Warranty</b>	Vendor should provide 3 years, 24 X 7	

		<p>comprehensive onsite warranty for servers and accessories with direct principal back lined support for all the supplied items. The warranty will start from the date of successful operationalization of the supplied items at SAC.</p> <p>During the warranty period, vendor is required to install upgrades, new releases and handle the faults/problems at no extra cost. In case of any issue the same needs to be resolved <b>within 24 hours</b> of reporting.</p> <p>As per ISRO policy, <b>remote access over internet of any device (hardware or software) is not permitted</b>. To address the same, vendor authorized, qualified person must visit SAC campus (onsite) for required installation and operational support.</p> <p>OEM/Vendor should provide advance part replacement. Failed hard disks will not be returned back.</p>	
7.	<b>Data Sheets</b>	<p>Latest datasheets for the respective quoted product shall be enclosed with the offer, for verification of the technical requirements/specifications/features.</p> <p>OEM should provide documentary proof for requirements/specifications/features which are not mentioned in datasheet.</p> <p>Non-submission or incorrect submission of the latest datasheets or documentary proof may result in the offer getting rejected.</p>	
8.	<b>Compliance Statement</b>	Vendor must provide items wise compliance statement.	
9.	<b>Penalty</b>	0.05% of "PO value per server" would be recovered as penalty per day, if the reported issue is not resolved within 24 hours of reporting.	
10.	<b>Delivery</b>	Vendor should deliver the complete order within 16 weeks from date of purchase order. Part delivery will not be accepted.	
11.	<b>Payment</b>	60% of payment <b>should be paid against the delivery and inspection of supplied material. Remaining payment</b> should be paid within 30 days after successful completion of Final Acceptance.	
12.	<b>Others</b>	Vendor shall submit un-priced Bill of Material along with the technical compliance. Prices shall not be revealed in technical bid.	

		Vendor should submit full and final offer. No query will be entertained after final submission. Vendor may send queries to SAC purchase department through eMail within 10 days from the date of publication of the tender.	
		Vendor must find out solution for any problem arising during the warranty period without any cost binding to SAC.	

### 3. Bidding Model

Vendor should submit **the offer in two parts** (1) Technical & commercial **offer with terms and conditions** and (2) Price Bid.

Technical and commercial offer should contain;

- a. Supporting documents qualifying OEM and vendor.
- b. Vendors should submit their compliance (Yes/No) with each of the specification mentioned above. Any special remark may be provided. If better specification is provided then corresponding documentary proof should be attached.
- c. Vendor's designated personnel should put signature with stamp on each page.
- d. Complete masked Bill of material (un-priced BoM).
- e. Technical & commercial terms and conditions if any from vendor.

### 4. Bill of Material

The vendor shall submit un-priced BoM as given below:

Sl. No.	Item	Quantity
1)	<b>2U Rack Servers with 3 Years On-Site Warranty</b>	3
2)	<b>Microsoft Windows Server OS 2022 or later</b>	3

**Note: Bidder shall not submit price in the technical compliance details. Only un-priced BoM shall be submitted along with technical compliance.**