

## **Tender Document**

Dean of Academic Affairs  
Indian Institute of Technology Kanpur  
Kanpur (UP) 208016 India

**Enquiry date: June 20, 2022**

**Enquiry No: IITK/DOAA/2022/01**

**Revised End date: July 10, 2022**

Online quotations are invited for “Server for LMS”. The detailed specification of the same is described below.

### **Officer-Incharge-II**

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### **Server for LMS**

Technical Specification of Server (Please mention the exact details about the proposed product in bid parameters. **Do not just write Yes, complied or do not make verbatim copy of the asked specification. It may lead to rejection of the bid.** Attach product data sheet for each of the parameters (preferably highlighted)).

<b>S. No.</b>	<b>Component</b>	<b>Description</b>
1	Make & Model	To be suggested by bidder
2	Market position	The OEM for the proposed server must be in Leader’s quadrant in the last two Gartner’s report of “Magic Quadrant for Modular Servers” & should have been one of the top three server vendors (by market share revenue in IDC or Gartner report) in any of the previous 2 quarters
3	Form Factor	Max. 2U rack mounted with sliding rails
4	Supported CPU	Up to two 3rd Generation Intel® Xeon® Scalable processors with up to 12 cores per processor.
5	Configured CPU	2* 12 Cores with clock speed of 3 GHz or better and with 18 MB cache or better
6	Memory slots	Up to 32 x DDR4 RDIMMs/LRDIMMs
7	Memory configured	64*4 GB LRDIMMs 3200 MT/s
8	Disks supported	Up to 16 x 2.5” SAS/SATA HDD or SSD or NVMe with universal slots
9	Disks configured	3*7.68 TB SSD SAS 2* 600 GB SAS Drive, 1 DWPD
10	RAID Controller	H755
11	I/O slots	Up to 8 x PCIe Slots Gen4
12	Ethernet ports	2* 10/25GbE SFP28 Ports . The server should be provided with port level and card level redundancy

13	Certification and compliances	Microsoft Windows Server, Hyper-V, VMWare, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES)
14	Power Supply	Platinum rated redundant Hot plug Power Supplies with hot plug fans
15	Management integration	Support for integration with Microsoft System Center, VMware vCenter, BMC Software
16	Power & temperature	Real-time power meter, graphing, thresholds, alerts & capping with historical power counters. Temperature monitoring & graphing
17	Pre-failure alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
18	Configuration & management	<ul style="list-style-type: none"> <li>• Real-time out-of-band hardware performance monitoring &amp; alerting</li> <li>• Agent-free monitoring, driver updates &amp; configuration, power monitoring &amp; capping, RAID management, external storage management, monitoring of FC, HBA &amp; CNA &amp; system health</li> <li>• Out-of-band hardware &amp; firmware inventory</li> <li>• Zero-touch auto configuration to auto deploy a baseline server configuration profile</li> </ul>
19	Management (continued)	<ul style="list-style-type: none"> <li>• Automated hardware configuration and Operating System deployment to multiple servers</li> <li>• Zero-touch repository manager and self-updating firmware system</li> <li>• Virtual IO management / stateless computing</li> <li>• Support for Redfish API for simple and secure management of scalable platform hardware</li> </ul>
20	LCD panel	Should display system ID, status information and system error code followed by descriptive text. LCD background should light up in different colours during normal system operation & error conditions.
21	Server security	Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
		Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> <li>- Silicon-based Hardware Root of Trust</li> <li>- Signed firmware updates</li> <li>- Secure default passwords</li> <li>- Configuration and firmware drift detection</li> <li>- Persistent event logging including user activity</li> <li>- Secure alerting</li> <li>- Automatic BIOS recovery</li> <li>- Rapid OS recovery</li> <li>- System erase</li> </ul>
		Configuration upgrades should be only with cryptographically signed firmware and software
		Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware
22	Intrusion alert	Intrusion alert in case chassis cover being opened
23	Warranty	5 years On-site comprehensive warranty with 24x7x365 remote hardware support. Post installation, 5-year product warranty should reflect in the support web site of the OEM.

24	Data Sheet	The product data-sheet should be available on Public Domain for offered product verification.
25	OEM Authorization	OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in Kanpur. The certificate to this effect should be submitted.
26	Implementation of VM Solution	Setting up the Hypervisor in the Host Machine Create the storage pool and networking port Create a test VM

### **Eligibility Criteria**

1. The bidder should have average annual sales turnover at least 2-5 Crores for the last three financial years. A proof thereof to be attached.
2. The bidder or OEM should have at least one service Center within 150 kms from IIT Kanpur with service engineers in the relevant field of quoted item for prompt support. Submit details of service center on letter head.
3. The Service provider must attend the machine within 12 hours after the intimation of any breakdown. Since the machine is engaged in sophisticated research.
4. The bidder should have a registered office within 150 kms from IIT Kanpur. Submit the details of the registered office on letter head.
5. The bidder should have valid ISO certification 9001:2015 or better for IT System Integration and Services. Please attach a copy of the certificate.
6. The bidder must be authorized partner/system integrator of Server. The Bidder to submit case specific Manufacturer's Authorization Format along with the bid for each of the products quoted. Bids not accompanied by valid OEM MAF shall be rejected.
7. The product should not be declared out of support by the OEM for a period of 5 years from the date of installation
8. Higher configurations for item (Server) without any compatibility issues may be considered at the discretion of the appointed technical committee.
9. The bidders should submit a point wise technical compliance of the offered product against the tendered specifications and the technical brochure evidencing the compliance should be available in the public domain. Enclose copies of the technical brochures of the quoted products, wherever applicable.
10. The bidder must be responsible for complete installation of the operating system and subsequent support as per terms and conditions of the Tender.
11. The Equipment offered by the OEM FOR equipment of the same series/family FROM the same OEM should have been satisfactorily working IN Government/PSUs/Telecom Service

Providers network in India. A proof thereof to be attached.

**Terms and Conditions:**

1. Warranty & Support: Five years comprehensive on-site for Hardware from OEM directly.
2. Quotations must be valid till December 21, 2022.
3. Delivery period will be 6-8 weeks.
4. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
5. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
6. The price should be quoted per item basis. Number of items may vary depending on the financial status at the time of ordering.
7. The Institute reserves the right to accept, including minor relaxation in technical criteria, or reject any or all of the offers in full/part without assigning any reason whatsoever.
8. Technical and Financial bid should be submitted separately.
9. All prices should be in INR and the delivery to be made at IIT Kanpur.