



MAHATMA GANDHI UNIVERSITY

MGU/RUSA/ Etender/SCS/2023/07

29/07/2023

NOTICE INVITING TENDER

The PI RUSA Project, Mahatma Gandhi University, Kottayam, invites online bid (technical and financial bid) for supply and installation of the Scientific equipment “**SERVER COMPUTER & NETWORK**” from reputed firms.

1	Name of the scientific equipment	SERVER COMPUTER & NETWORK
2	Earnest money deposit (EMD)	Rs 29,600
3	Tender submission fee	Rs 5,900
4	Period of supply and installation	Within 90 days from the LC Opening Date
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
7	Last date and Time of submission of tender by online	22/08/2023 4:00 PM
8	Last date and Time of submission of relevant documents by speed post	24/08/2023 12:00 PM
9	Date and time of opening of technical bid	24/08/2023 12:00 PM

General tender documents and tender schedule can be downloaded in A₄ plain size paper free of cost from the website www.etenders.kerala.gov.in. Duly filled up and signed tender schedule along with relevant documents should also be sent to “**The Director School of Chemical Sciences, Mahatma Gandhi University, Kottayam, Kerala Pin-686560**”, by speed post so as to reach before the date and time specified. The cover containing the documents should super scribe the name of the scientific equipment, tender number, and last date of submission of tender.

Documents to be submitted along with bid through online/speed post

Sl.No	Through online	Through speed post
1	Scanned copy of valid registration certificate/dealership certificate	Copy of valid registration certificate attested by a gazette officer/ dealership certificate
2	Scanned copy of duly filled e-payment form	Duly filled e-payment requisition.
3	Scanned copy of other certificates required, if any, for tender acceptance	Copy of other certificates required, if any, for tender acceptance.
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-	Preliminary Agreement in original
5	BOQ	Not Required

Specification for Server Computer & Network

1. Server Computer

Chipset	Lewisburg PCH Intel C6XX Series or better
Form Factor	Max. 2U rack mounted with sliding rails
Configured CPU	Dual Intel® Xeon® Gold 6330 2G, 28C/56T, 11.2GT/s, 42M Cache, Turbo, HT (205W) DDR4-2933 or better
Memory slots	Minimum 32 DDR4 DIMM slots , supports RDIMM 2 TB max or LRDIMM 8 TB max, speeds up to 3200 MT/s
Memory configured	Minimum 16 x 32GB RDIMM, 3200MT/s, Dual Rank, 16Gb BASE x8 or higher
Disks supported	2.5" Chassis with up to 16 SAS/SATA Drives or higher
RAID Controller	12Gbps with RAID 1, 5, 6,10, 50 with 8GB NV Cache or higher
Disks configured	Minimum 2 x 1.92TB SSD SAS, RI, up to 24Gbps 512e 2.5in Hot-Plug, AG Drive, 6 x 2.4TB 10K RPM Self-Encrypting SAS 12Gbps 512e 2.5in Hot-plug Hard Drive, FIPS SED140 SED or higher
I/O slots	Up to 8 x PCIe Gen4 slots (up to 6 x16) with support for SNAP I/O modules
Ports	Front Ports: <ul style="list-style-type: none"> • 1 x Dedicated iDRAC Direct micro-USB • 1 x USB 2.0 • 1 x VGA Rear Ports: <ul style="list-style-type: none"> • 1 x USB 2.0 • 1 x USB 3.0 • 2 x RJ-45 Internal Ports <ul style="list-style-type: none"> • 1 x USB 3.0

Ethernet ports	2 x 10Gbe, 4 x 1 Gbe
Operating System and Hypervisors	<ul style="list-style-type: none"> • Canonical Ubuntu Server LTS • Citrix Hypervisor • Microsoft Windows Server with Hyper-V • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi
Power Supply	Dual, Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode or better
Management integration	Support for integration with Microsoft System Center, VMware vCenter
Power & temperature	Real-time power meter, graphing, thresholds, alerts & capping with historical power counters. Temperature monitoring & graphing
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
Configuration & management	<ul style="list-style-type: none"> • Real-time out-of-band hardware performance monitoring & alerting • Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health • Out-of-band hardware & firmware inventory • Zero-touch auto configuration to auto deploy a baseline server configuration profile
Management (continued)	<ul style="list-style-type: none"> • Automated hardware configuration and Operating System deployment to multiple servers • Zero-touch repository manager and self-updating firmware system • Virtual IO management / stateless computing • Support for Redfish API for simple and secure management of scalable platform hardware • Server management software should support up to 8000 devices in a single instance
HTML5 support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
Server security	Should have a cyber-resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
	Should protect against firmware which executes before the OS boots
	Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery - System erase
	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
Intrusion alert	Intrusion alert in case chassis cover being opened
Warranty	Minimum 3 years On-site comprehensive warranty with 24x7x365 remote hardware support and 4 Hours Response Time

2. **EMC Power Switch**

Specifications: 12x 25GbE SFP28, 3x 100GbE QSFP28 ports, IO to PSU air, 2x PSU

Special Conditions

1. Instrument should be supplied with necessary manuals or Quotation should include the detailed description of each module with circuit diagram.
2. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (hard and soft copies).
4. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The bids shall be opened at the date and time specified. Further details can be had from the office on the undersigned on all working days during working hours. The bidders are advised to submit their bid well in advance to avoid any kind of network issues. If relevant documents through speed post are not submitted with in time, the tenders will not be considered. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.
5. In case if sufficient number etender with complete documents are not received before the closing date, the closing date of the tender will be extended to another 10 days and in this single tenders will be considered.

Sd/-

PI Dr Ditty Dixon