



Avinashilingam
Institute for Home Science and Higher Education for Women
University
Estd. u/s 3 of UGC Act 1956)
Coimbatore - 641 043, Tamil Nadu, India

No. AU/CURIE II/Equip002/2017

Date: 01.08.2017

LETTER CALLING FOR LIMITED SEALED TENDERS

Sir,

Sub: Sealed Tender – Purchase of High End Server with Accessories- Regarding

Limited Sealed Tenders are invited by the Registrar, Avinashilingam Institute for Home Science Higher Education for Women, Coimbatore, for the purchase of High End Server with Accessories

Tender Subject /Item to be Purchased	High End Server with Accessories
Date of Issue of Tender Document	01.08.2017
Last Date for Submission of Tender	16.08.2017, 12.00pm
Date, Time & Place for opening of bids	16.08.2017, 2.00pm, At Registrar's Office
Address for Communication	Sealed Cover to be Addressed to: THE REGISTRAR, Avinashilingam Institute for Home Science Higher Education for Women, Coimbatore 641 043 Sealed cover to be superscribed as "Tender for High End Server with Accessories /Purchase/2017-2018"
Contact Details/Telephone	Tel.+91 (0422) 2440241 Email: registrar@avinuty.ac.in
Cost of Tender Document	Rs 3000 /- To be furnished in the form of Demand draft drawn in favour of The Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore , payable at Coimbatore. If the tender document is downloaded from the website, the tender submitted should be accompanied by a separate DD for the tender document fee
Earnest Money Deposit (EMD) Amount	1% of the quoted value to be furnished in the form of a DD from any nationalized/scheduled bank drawn in favour of "THE REGISTRAR" , Avinashilingam Institute for Home Science Higher Education for Women, Coimbatore 641 043
Validity of Quotation	Valid up to 90 days from the date of opening

Tender documents can be purchased in person or can be downloaded from our website www.avinuty.ac.in . Belated submission of tender will not be entertained at any cost.

Dean

Registrar

1/12

High End Server with Accessories

TENDER FORM

For and on behalf of the Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, sealed tenders from the reputed manufacturers or authorized dealers and having direct service centers at Coimbatore are invited.

1. GENERAL TERMS AND CONDITIONS

1(a). The tender not in conformity with the terms and conditions herein stated or which is incomplete will be rejected

1(b). Delivery: The equipment should be supplied, installed and commissioned by the tender within the specified time stipulated and the validity of the offer holds good till such time. The equipment should be custom – cleared by the supplier and delivered at the university by the supplier.

1(c). Warranty: The warranty should be three years comprehensive (including spares replacement), should be onsite provided by the payroll employee and the warranty period for components.

1.	Item to be purchased	High End Server with Accessories
----	----------------------	-----------------------------------------

2. PREPARATION AND SUBMISSION OF TENDER

The technical bid and financial bid should be prepared separately and enclosed in separate covers. It should contain all technical details like specification, make etc., as considered relevant by the tenderer, about the systems and the hardware. The technical bid and the financial bid should be sealed by the bidder in separate covers duly superscribed and both the sealed covers are to be put in a bigger cover which should be sealed and duly superscribed.

It should also contain all the supporting documents of the tender, all the technical details, qualifying criteria and specifications as mentioned in Part I, II, III and IV. Prices quoted other than the prescribed form of the financial bid will be rejected and will not be considered for evaluation.

The breakup of the cost-and tax rates should be quoted separately. No extra cost will be borne for freight, packing, forwarding, installation and commissioning, transit insurance etc., and octroi and delivery at university.

EARNEST MONEY DEPOSIT (EMD)

An earnest money deposit of either 1% of the total cost or 2% of the total cost as security deposit is to be paid in the form of a **CROSSED DEMAND DRAFT** from any of the **NATIONALISED BANKS**, in favour of The Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 43. Failure to furnish the EMD will lead to rejection of the tender.

PART I: QUALIFICATION CRITERIA

1. Conditions:
 - i. The rate and the taxes thereon if any should be furnished separately.
 - ii. The amount should be shown both in figures and in words. Corrections if any should be attested properly. Sealed quotation with corrections not attested will be rejected.
 - iii.
 - a) Sealed quotation without furnishing the required EMD will be rejected
 - b) Sealed quotation claiming exemption from paying the EMD should produce necessary evidence/documents in support of their request.
 - c) EMD in respect of unsuccessful quotation will be refunded after the satisfactory supply of the successful bidder
 - d) No interest is payable on EMD
 - iv. Sealed quotation should be furnished for the exact specifications as given in this letter. Sealed quotation not in accordance with the specification will be rejected.
 - v. The supply should be effected within 30 days from the date of purchase order
 - vi. Warranty period should be indicated. Comprehensive warranty of 3 years is essential
 - vii. After warranty condition for AMC should be indicated
2. The successful bidder should remit a Performance security of 5% of the total bill of cost either in the form of Demand Draft or Bank Guarantee should be valid up to the end of the warranty period
3. If the successful quotation fails to supply the item within the stipulated time, the EMD will be forfeited apart from initiating further action for consequential loss if any to the Avinashilingam University for Women, Coimbatore.
4. Vendors may be present or send their representative on the date of opening if the due date of opening of the sealed quotations.
5. Sealed quotation shall be furnished in the prescribed format enclosed in the tender document duly signed by the tenderer accepting the condition and the tender format shall be sent. **Sealed Tenders not furnished in the prescribed format will be rejected.**

PART II : TECHNICAL SPECIFICATIONS FOR EQUIPMENT

S. No.	Name of the Equipment	Specifications	Qty (in number)
1.	Higher End Server with Accessories	Specifications as Depicted in section a-aa	1
a.	Chassis	1 U Rack Mountable	
b.	CPU	Dual Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor	
c.	CPU Support	One or two numbers of latest generation Intel 4/6/8/10/12/14/18/20/22 Core E5-2600v4 processor	
d.	CPU L3 CACHE Memory	55MB (1 x 55 MB) L3 cache (MAX) - 10 MB (1 x 10 MB) L3 cache (MIN) depending upon processor model	
e.	Motherboard	Intel® C610 Series Chipset	
f.	Memory	196 GB DDR4 Memory with 24 DIMM slots. scalable to at upto 3TB using DDR4 Load Reduced DIMM (LRDIMM) memory modules (128GB) at 2400MHz(depending on processor model) or 196 GB DIMMS scalable to at upto 768GB using DDR4 Load Reduced DIMM (LRDIMM) memory modules (32GB) at 2133MHz(depending on processor model). Should be capable of identifying and reporting whether genuene OEM memory is installed for system reliability.System should support up to 128GB (8* 16GB) persistent memory. While the server is powered off, data should be saved in the NAND flash memory of each persistent memory DIMM to restore when power is on	
g.	Memory Protection	Advanced ECC with multi-bit error protection and memory online spare mode	
H,	HDD	8 * 600 GB 12G SAS 10k Enterprise Harddisk drive	

i	HDD Bays	Up to 10 SFF/4 LFF max, HDD/SSD. Server model should support 4 SFF bays along with 6 NVMe drives for higher storage performance. The drive carrier should have intuitive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal.	
j.	Optical drive Bay	DVDRW	
k.	Hard disk drive	<p>Some of the HDD/SSD choices from, SAS drives:</p> <p>SFF 15K 12G SAS drives: 300GB, 450GB, 600GB</p> <p>SFF 10K 6G SAS drives: 300GB, 450GB, 600GB, 900GB, 1.2TB</p> <p>SFF 15K 6G SAS drives: 146GB</p> <p>SFF 7.2K 6G SAS drives: 500GB, 1TB</p> <p>LFF 15K 12G SAS drives: 300GB, 450GB, 600GB</p> <p>LFF 7.2K 6G SAS drives: 1TB, 2TB, 3TB, 4TB, 6TB</p> <p>SATA drives:</p> <p>SFF 7.2K 6G SATA drives: 500GB, 1TB</p> <p>LFF 7.2K 6G SATA drives: 500GB, 1TB, 2TB, 3TB, 4TB, 6TB</p> <p>SAS interface Solid State Drives:</p> <p>SFF 12G SAS enterprise performance SSD: 200GB, 400GB, 800GB</p> <p>SFF 12G SAS enterprise mainstream SSD: 200GB, 400GB, 800GB</p> <p>SFF 12G SAS enterprise value SSD: 800GB, 1.6TB</p> <p>LFF 12G SAS enterprise value SSD: 800GB, 1.6TB</p> <p>SATA interface Solid State Drives:</p> <p>SFF 6G SATA enterprise mainstream SSD: 100GB, 200GB, 400GB, 800GB</p> <p>SFF 6G SATA enterprise value SSD: 240GB, 300GB, 480GB, 600GB, 800GB</p>	

l.	Controller	<p>Server should support one of below RAID controller without consuming PCIe slot Embedded 6Gb/s SATA controller RAID controller with RAID 0/1/10/5 or PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/5 or PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or in a PCI Express slot)</p>	
m.	Networking features	<p>Server should support networking cards with below features:</p> <ol style="list-style-type: none"> 1. 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMware NetQueue and Microsoft VMQ. 2. 10Gb 2-port Ethernet adaptor supporting enterprise class features such as VLAN tagging, adaptive interrupt coalescing, MSI-X, NIC teaming (bonding), Receive Side Scaling (RSS), jumbo frames, PXE boot and virtualization features such as VMware NetQueue and Microsoft VMQ. 3. 10Gb 2-port Adapter providing Ethernet and iSCSI or Fibre Channel Over Ethernet (FCoE) connectivity using Converged Enhanced Ethernet (CEE) standards. This adaptor should support Hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine (TOE), Fibre Channel over Ethernet (FCoE), Jumbo frames and iSCSI. 4. 10Gb 2-port provide up to 40Gb bi-directional bandwidth, Converges FCoE or RoCE with LAN traffic on a single 10 GbE wire, Tunnel Offload support for VXLAN and NVGRE, RDMA over Converged Ethernet (RoCE) 	

n.	Interfaces	Serial - 1 Micro SD Internal Secure - 1 USB 3.0 support With Up to 5 total: 2 rear, 1 front, 2 internal	
o.	Bus Slots	Three PCI-Express 3.0 slots, atleast two x16 slots	
p.	Power Supply	Redundant platinum Power Supplies	
q.	Fans	Redundant hot-plug system fans	
r.	Graphics	Integrated graphics controller supporting 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp)	
s.	Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star ASHRAE A3/A4	
t.	Embedded system management	Should support monitoring ongoing management, service alerting, reporting and remote management with embedded Gigabit out of band management port Server should support configuring and booting securely with industry standard Unified Extensible Firmware System should support RESTful API integration System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support	

u.	Security	Power-on Serial interface Administrator's UEFI Should support up to 12 customizable user accounts on out of band management port and SSL encryption Should also supports directory services integration TPM 1.2	password control password
v.	Operating Systems and Virtualization Software Support	Microsoft Canonical Red Hat Enterprise Linux SUSE Linux Enterprise Server Oracle VMware Citrix Xen Server	Server Ubuntu (RHEL) (SLES) Solaris
w	Secure encryption	System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.	
x.	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.	
y.	Provisioning	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.	
z.	Remote Management	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and	

		<p>should have support for multifactor authentication.</p> <p>2. Server should have dedicated 1Gbps remote management port. Remote management port should have 4GB NAND flash with 1GB available for user access. NAND flash should be used for keeping system logs and downloading firmware from HP website or internal repository</p> <p>3. Server should support agentless management using the out-of-band remote management port.</p> <p>4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur.</p> <p>5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available.</p> <p>6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via</p> <ul style="list-style-type: none"> Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media Group License Activation 	
2	Server Management	<p>The Systems Management software should provide Role-based security</p> <p>Should help provide proactive notification of actual</p>	

		<p>or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.</p> <p>Should provide an online portal that can be accesible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contrats and status. The Portal should also provide a Personalised daskboard to monitor device heath, hardware events, contract and warranty status.</p> <p>Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location - console based) or off premise (using internet).</p> <p>Should support scheduled execution of OS commands, batch files, scripts, and command line apps on remote nodes</p> <p>Should be able to perform comprehensive system data collection and enable users to quickly produce detailed inventory reports for managed devices. Should support the reports to be saved in HTML, CSV or XML format.</p> <p>Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.</p> <p>The Server Management Software should be of the same brand as of the server supplier.</p> <p>Infra Platform /Infra Software to support a variety of different hypervisors, such as VMware, Microsoft Hyper-V, Red Hat KVM, and HP Integrity VM</p>	
--	--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

		<p>Solution available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management</p> <p>Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV</p>	
--	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

PART III: INTEGRATION

The bidder should successfully install, provide necessary training and integrate with existing software at the site free of cost.

PART IV

S. No.	Items/Equipment	Quantity in Number Rated in foreign currency (a) Taxed if any Foreign currency (b)	Total foreign currency (a + b)
1.	High End Server with Accessories	1	

Undertaking Letter

Sub: Undertaking of authenticity for the equipment

This has reference to equipment being supplies/quoted to you vide our invoice no/quotation no/order no -----dated-----.

We hereby undertake that all the components/parts/assembly/software used in the equipments under the above shall be original new components/parts/assembly/software's from respective OEMs of the products and that no refurbished /duplicate/second hand components/parts/assembly/software are being used or shall be used.

Should you require, we shall produce certificate from our OEM supplier in support of above undertaking at the time of delivery. It will be our responsibility to produce such letters from our OEM suppliers within a reasonable time.

In case we are found not complying with the above at the delivery or during installation, for the equipments already billed, we agree to take back the equipments if already supplied and return the money if any paid to us by you in this regard.

Authorized Signatory