Tender Document

For Purchase of

Server with Storage and Virtualization Software

At

IT Center
Devi Ahilya University
Takshashila Campus, Khandwa Road, Indore
Ph. 0731-2761358, https://www.dauniv.ac.in
(Tender No. DAVV/ITC/SERVER/2018-19/1)

Ref. No: DAVV/ITC/SERVER/2018-19/1-1

Notice Inviting Tender

Online tenders are invited under two bid system (Technical and Financial) for purchase of Server **with Storage and Virtualization Software at IT Center Devi Ahilya Vishwavidyalaya, Indore.** The tender document may be downloaded on online payment of Rs. 2000/- (Rs. Two Thousand only) at https://www.mptenders.gov.in (main portal)

The formats of Technical and financial bid, declaration, check list and terms & conditions are given in Annexure I, II, III, IV & V respectively and the same are available at https://www.mptenders.gov.in (main portal) and can be seen at DAVV web site https://www.dauniv.ac.in

Sr No.	Particulars	Description
1	Name	**Server with Storage and Virtualization Software**
2	Uploading/Publication of Tender Document	20th Feburary 2019 by 0900 hrs.
3	Downloading of Tender Document through website https:www.mptenders.gov.in	20th Feburary 2019 by 0930 hrs
4	Last date of bid submission	6th March 2019 by 1600 hrs.
5	Technical bid opening	07th March 2019 by 1605 hrs.
6	Financial Bid Opening	**Date will be notified on University website https:// www.dauniv.ac.in**
7	Bid Security/Earnest Money Deposit (EMD)	**INR Rs.1,60,000.00/- (Rs. One Lac Sixty Thousand Only) to be paid online through e-procurement portal in favor of Registrar, Devi Ahilya Vishwavidyalaya, Indore. Bidder is required to upload the scanned copy of e-transaction details.**
8	Tender Fee	**INR Rs. 2000/- (Rupees Two Thousand only) (nonrefundable) + GST to be paid online through e-procurement portal in favor of Registrar, Devi Ahilya Vishwavidyalaya, Indore. Bidder is required to upload the scanned copy of e-transaction details.**

1. The on line Technical Bid will be opened by the committee constituted for this purpose in presence of the tenderers or authorized representatives interested to be present on prescribed date. The financial bids of technically qualified tenderers will only be opened after technical evaluation by the technical committee. The tenderers should bring ID proofs and representatives should bring the authorization letter from their authorized signatory for attending the process of tender opening.

2. The online technical bid will be opened in Administrative office of the Registrar, Nalanda campus DAVV, RNT Marg Indore. Bidders are requested to submit in offline mode in sealed envelope (i) self attested copies of e-transaction details of tender fees and EMD (ii) signed copy of online technical bid alongwith supporting documents mentioned in Technical Bid. The sealed enveloped should be super scribed with name of Tender, reference no. and words written" kind attn. to Head IT Center" on top of the envelope addressed to Registrar, Devi Ahilya Vishwavidyalaya, Nalanda Campus, RNT Marg, Indore 452001. Sealed envelope should reach on or before last date of technical bid submission. Bidders are requested to ensure early submission of required documents to avoid delay in postal delivery. If any bid is found delayed in submission after due date such bid will be rejected by the University.

NOTE: At any time till one day before the deadline for submission of Bids, DAVV may, for any reason, whether at own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Document by amendment. All the amendments made in the document would be informed through the DAVV Website.All such amendments shall be binding on all the Bidders. The Bidders are also advised to visit the aforementioned website on regular basis for checking necessary updates. DAVValso reserves the rights to amend the dates.

Registrar,
DAVV

Ref: DAVV/ITC/SERVER/2018-19/1-1

[covering Letter]

To:
The Registrar
DAVV, Indore.

Dear Sir,

We, the undersigned, have examined the Tender Document, hereby offer to **Server with Storage and virtualization software**. We are hereby submitting our proposal, which includes this Pre-Qualification Information, Technical proposal and Commercial proposal. We have enclosed the Earnest Money Deposit in the form of Bank Draft, as mentioned in the tender document.

All the rates quoted in our proposal are in accordance with the terms as specified in tender documents. All the prices and other terms and conditions of this proposal are valid for a period of 180 calendar days from the last date of submission of tenders.

We do hereby confirm that our prices include all taxes including GST or other tax. We have studied the clauses relating to Indian Taxes and hereby declare that if any Tax, Surcharge on Tax and any other Corporate Tax altered under the law, we shall pay the same.

We declare that our quoted product meets all technical specifications and other tender conditions. We further declare that the rates stated in our proposal are in accordance with your terms and conditions in the tender document.

We understand that you are not bound to accept any/ all Proposal(s) you receive.

Yours sincerely,

Signature with seal

Name and Designation of Authorized Signatory

Date & Place

Online Technical Bid A

I. General Information

Sno.	Particulars	Details
1	Name and Address of the Tenderer	
2	Year of establishment	
3	Contacts	
	Office Telephones	
	Mobile No.	
	Fax Number	
	e-mail address	
4	Category of tenderer (whether company, partnership firm or proprietary concern)	
5	Name of the Chief Executive and Telephone No	
6	GST Registration Nos.	
7	Income Tax PAN / GIR No	

Signature with seal:

Name and Designation of Authorized Signatory

Date & Place:

II. Eligibility criteria for Pre-Qualification Information Sheet

SNo.	Particulars	Details
1	Annual Turnover for the Last 3 Assessment Years (also attach proof):	
	2015-16	
	2016-17	
	2017-18	
2	Details of order(s) executed Also attach proof.	
3	ISO 9001 certificate (enclose proof)	
4	Amount to be paid.	
a.	Tender form Fees Rs. 2000/- (nonrefundable) to be paid online. Bidder is required to upload the scanned copy of e-transaction details	
b.	EMD Amount Rs. 1,60,000/- (Rs. One Lac Sixty Thousand only) to be paid online through e-procurement portal in favor of Registrar, Devi Ahilya Vishwavidyalaya, Indore. Bidder is required to upload the scanned copy of e-transaction details	
5	Other Certifications (if any) (enclose proof)	

III *Technical Specifications of Equipment are as under:*

All hardware MUST be sourced from reputed brands, must be NEW and comply with Minimum technical specifications mentioned in online technical bid:

Online Technical Bid

(To be quoted Online on prescribed proforma only)

To,

The Registrar,
Devi Ahilya Vishwavidyalaya,
Nalanda Campus, RNT Marg, Indore.

Sub:- **Quotation for server with storage and virtualization software at IT Centre Devi Ahilya Vishwavidyalaya, Indore.**

Sir,

This has reference to your call for submitting quotation for purchase of **Server with Storage and Virtualization Software** at IT Center, Devi Ahilya Vishwavidyalaya, Indore. I have read all the terms and the conditions as stipulated in the above. I have gone through all the terms and conditions mentioned in the tender document and already given my acceptance for it. I confirm that I fulfill the eligibility criteria as stipulated by you.

Sno.	Item	Bid Requirement by DAVV	Details Quoted by Bidder	
(A)	**Detailed Server Specification**			
1	Architecture	Server with storage and virtualization software: Hyper Converged Infrastructure (HCI) - with 3 Nodes: Intel Xeon 2.2GHz min. 10-cr Skylake or latest (6Nos.), 128GB RAM per node, 12 TB per node (total storage 36TB HDD)/ 960GB 3.5" SSD per node (3 No.),/2*10G Ethernet Port per node and Accessories bundled with virtualization software,3 Yr license and product support from OEM.	Server with storage and virtualization software: Hyper Converged Infrastructure (HCI)	
			No of Nodes	
			Processor (make and model)	
			MgHz.	
			Core	
			RAM per Node	
			Per Node HDD	
			Per Node SDD	
			No of 10Gbps Port	
			Bundled Virtualization Software (name and version)	
2	Virtualization software	The proposed solution should support one of the leading Virtualization Software's, from – VMware, ESXi, Microsoft Hyper-V, Acropolis Hypervisor (AHV), Xen Server, open KVM. HCI solution must support industry Leading protocols NFS, iSCSI & SMB.	Virtualization software (Write Name of Software and version)	

		The proposed HCI solution must be 100% software defined and should not leverage any specialized hardware. It must natively support container based application like Docker and open stack integration.	Is it software defined? (Yes/No)	
		It should be possible to scale storage and compute as and when needed without any downtime. HCI should support storage expansion without any virtualization license for storage expansion and compute expansion capacity as and when needed	Does it support storage expansion without license and without any downtime required? (Yes/No)	
		The proposed HCI solution must have metadata distributed on all nodes in a cluster i.e. each node in the cluster should carry information about data lying across every node in the cluster and capacity utilization/distribution across all nodes has to be uniform at all times	Does it support metadata and cluster features? (Yes/No)	
		The proposed HCI solution should be able to create multiple logical unit (LUN's) for storage with multiple policy for deduplication and compression across storage logical unit.	Does it able to create multiple LUNs for storage with multiple policies for deduplication? (Yes/No)	
		The proposed HCI solution should be capable to leverage SSD for not only caching but for capacity optimized read IOPS and there should not be any limitation on SSD overall caching on software defined storage.	Compliance (Yes/NO)	
		The proposed solution must have capability to support nodes with same/different CPU & Memory configurations in the same cluster, The proposed solution should support hybrid and all flash nodes in same cluster for future scalability	Does it support to hybrid configurations on cluster? (Yes/No)	
		The proposed solution should be capable of adding additional combined server and storage components with high performance GPU capabilities, seamlessly, with no downtime, to scale performance and capacity on demand	Is it capable to add additional server and storage component with no downtime? (Yes/No)	

		The Proposed HCI solution should allow distributed caching of a particular disk or VM data, which are in a 'multi-reader' scenario. (e.g. deployment servers, repositories, etc.) to avoid boot storm and multi network read operation across multi nodes.	Compliance (Yes/No)	
		The proposed solution should have options to create multiple data stores for diversified application requirements on deduplication/compression across all storage tier (Hybrid / All Flash)	Does it has options of creating multiple data stores on all storage tier? (Yes/No)	
		Proposed HCI solution should support fault tolerance of at least two nodes failure within a cluster	Does it support to fault tolerance of cluster? (Yes/No)	
3	Hypervisor License	Required Hypervisor License should be perpetual and included into the solution.	Is Hypervisor License perpetual? (Yes/No)	
4	Supported Hard Drives	The proposed solution must have capability to support all industry drives available (SSD & SAS/SATA)	support to which industry drives?	
5	Features	The solution support for automated upgrades of storage controllers through management GUI with no downtime and major impact on production	Is it having management GUI and automated upgradation of storage features? (Yes/No)	
		The proposed solution should take native storage level snapshots with no impact to guest performance	Is it having features of taking native storage level snapshots? (Yes/No)	
		The proposed solution should be capable of creating instant snapshots of virtual machines(hypervisor agnostic) and maintained multiple copies of snapshots & clones	Is it capable of creating snapshots of Virtual machines & clones? (Yes/No)	
		The platform should have capability to leverage SSD for IOPS hungry workload should be running from SSD only	Compliance (Yes/No)	

		The proposed HCI solution must provide operations management and provide performance, storage, CPU utilization per VM	Does it provide operations management, performance, storage, CPU, utilization per VM (Yes/No)	
6	Replication	The solution should support data replication with data optimization over WAN	Does it support to data replication over WAN? (Yes/No)	
		The proposed solution should be capable of supporting multi-site (One to Many & Many to One) replication	Does it support to multisite replication? (Yes/No)	
7	Network Layer	The solution should be providing layer-2 VLAN for networking and integrated VM IP's Management capabilities	Does it provide layer-2 VLAN and integrated VM IP's management? (Yes/No)	
8	Form Factor	The platform should have support for rack /chassis awareness to support redundant data should go to different rack/chassis nodes	Does it support to rack/chassis awareness for redundant data of different nodes? (Yes/No)	
9	Block & File Services	The proposed HCI must support connectivity (HCI Storage extension) to 3rd party bare metal servers (for optimized DB licensing on physical servers) to HCI storage cluster & use the cluster capacity like a iSCSI, NFS target.	Compliance (Yes/No)	
		The proposed HCI should support native File Services over NFS/CIFS/SMB and file replication across clusters and data centers for local drive mapping for VDI users. If not supported, the NAS solution shall be provisioned for proving the file services.		
10	Management	Platform must provide management through a web based HTML 5 console. Must provide storage, compute & hypervisor metrics on a per VM level as well as real-time health andmonitoring of entire platform. Platform should support LDAP Active Directory integration	Does it support management through web based HTML console and is it support to LDAP Active Directory integration? (Yes/No)	

		Platform must support monitoring via SNMPv3 and email alerting via SMTP	Does it support monitoring via SNMPv3 and email alerting via SMTP? (Yes/No)	
		The solution should have call home capability for remote log collection and proactive support for predictive failure hardware component.		
11	Security	The proposed HCI solution should support data at rest encryption without any specialized hardware	Does it support to data encryption without any specific hardware? (Yes/No)	
		The solution should have out of the box security compliance methodology in HCI solution to ensure highly secure environment. It should have at list two or more certifications. (e.g. NIST, FIPS140-2, EAL2 CCC-Common Criteria Certified, DISA- approved STIG)	Compliance (Yes/No)	
12	Warranty & Support Services	The proposed solution should provide seamless upgrade for Firmware, Hypervisor, Storage OS, BIOS and other such functions which are required in the HCI platform. The upgrade should be online and should not mandate any kind of OEM engagement.	Is it having online upgradation facility of Firmware, Hypervisor, Storage OS, BIOS and other such functions? (Yes/No)	
		Shall include 24x7x365 infrastructure maintenance and support for all hardware and software components of the proposed solution, including updates and patches as well as technical support available via telephone, email, and web during all hours (24 hours per day, 365 days per year)	Compliance (Yes/No)	
		Tenderer shall provide 3 years' comprehensive onsite warranty on all Hardware and Software. All licenses provided, if any, shall be perpetual in nature. The Support should be provided 24X7 (4 Hour Response).	Mention warrenty period and Compliance (Yes/No)	
13	Products Certifications	The proposed Solution should be among the Leaders in Latest Gartner Magic Quadrant	Compliance (Yes/No)	

(B)	**TOR switch**			
1	**Architecture**	**Bid Requirement by DAVV**	**Details Quoted by Bidder**	
		TOR Switch	Make and Model Name :	
		The switch should have have 24 x 1G/10G Base T ports and 2x QSFP+ 40GbE ports from day one	No. of Ethernet ports No. of QSFP+40GbE ports	
		The Switch should support,1 RJ-45 serial console port,1 RJ-45 out-of-band management port and 1 USB 2.0 port	No. of RJ-45 serial console port (Mention Port)	
			No. of RJ-45 out of band management port (Mention Port)	
			No. of USB 2.0 port	
		The switch should support dual power supply and 2 fan tray slots	Compliance (write Yes/No)	
			is 2 fan tray slots available?(Yes/No)	
		The switch should have 1GB flash, 2 GB SDRAM	Is it having Minimum 1GB Flash?(Yes/No))	
			Is it having 2GB SDRAM?(Write)	
		The Switch should have 12 MB packet buffer size	Is it having 12MB Packet buffer size (Write)	
		The switch should have 10 Gbps Latency < 1µs (64-byte packets)	Does it have Minimum 10 Gbps Latency? (Write)	
		All the ports in the Switch should be 1U 19" Rack-Mountable	are ports 1U 19" Rack-Mountable? (Yes/No)	
		Minimum 800 Gbps switching capacity with min. 550 mpps	Is it having min. 1440 Gbps switching capacity? (Write)	
		The switch shall have switching throughput upto 1070 million pps	Does it have switching throughput up to 1070 million pps ?	
		MAC Address table size of 250,000 entries	Does it have MAC Address table size of 280,000 entries?	
		Switch should at least support 100,000 routing entries IPv4, 50,000 entries (IPv6)	Is it supporting 100,000 routing entries IPv4, 50,000 entries (IPv6)?	
2	**Quality of Service (QoS)**			

		The Switch should support Strict Priority (SP), WRR, WDRR, WFQ, SP+WRR, SP+WDRR, SP+WFQ, Configurable Buffer, Time range, Queue Shaping, CAR with 8kbps granularity	Is it supporting Strict Priority (SP), WRR, WDRR, WFQ, SP+WRR, SP+WDRR, SP+WFQ, Configurable Buffer, Time range, Queue Shaping, CAR with 8kbps ?	
		The Switch should support packet filtering at L2 (Layer 2) through L4 (Layer 4); flow classification based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, port, protocol, and VLAN.	Is it supporting packet filtering at L2 (Layer 2) through L4 (Layer 4); flow classification based on source MAC address, destination MAC address, source ?	
3	**Data center optimization**			
		The Switch should have cut-through and no blocking architecture	Is it having cut-through and no blocking architecture?	
		The switch should support min. four switches, which can be combined to deliver unmatched scalability of virtualized access layer switches and flatter two-tier networks and switch should support single IP management	Compliance (Yes/No)	
		The Switch should have Advanced modular operating system	Is it having advanced modular operating system?	
		The Switch should support Reversible airflow	Is it supporting Reversible airflow?	
		The Switch should have Internal redundant and hot-pluggable power supplies and dual fan trays	Does it have Internal redundant and hot-pluggable power supplies and dual fan trays ?	
		The Switch should support for IEEE 802.1Qbb Priority Flow Control (PFC), Data Center Bridging Exchange (DCBX), IEEE 802.1Qaz Enhanced Transmission Selection (ETS), Explicit Congestion Notification (ECN) for converged FCoE, iSCSI and RoCE environments.	Is it supporting for IEEE 802.1Qbb Priority Flow Control (PFC), Data Center Bridging Exchange (DCBX), IEEE 802.1Qaz Enhanced Transmission Selection ?	
		The Switch should support FCoE	Is it supporting FCoE?	
		The Switch should support Jumbo frames sizes of up to 10,000 bytes on Gigabit Ethernet and 10-Gigabit ports	Compliance (Yes/No)	

		The Switch should support VXLAN Layer 2 and Layer 3 gateway support for up to 1000 tunnels	Compliance (Yes/No)	
		The Switch should support OVSDB for dynamic VXLAN configuration	Is it supporting OVSDB for dynamic VXLAN configuration?	
		The Switch should support EVPN	Compliance (Yes/No)	
4	**Manageability**			
		The Switch should support ingress and egress port monitoring and traceroute and ping	Is it supporting ingress and egress port monitoring and traceroute and ping?	
		The Switch should support multiple configuration files to be stored to a flash image	Is it supporting multiple configuration files to be stored to a flash image?	
		The Switch should support sFlow (RFC 3176)	Is it supporting sFlow (RFC 3176)?	
		The Switch should support SNMP v1, v2c and v3	Is it supporting SNMP v1, v2c and v3?	
		The Switch should support Out-of-band interface	Is it supporting Out-of-band interface?	
		The Switch should support Remote configuration and management	Is it supporting Remote configuration and management?	
		The Switch should support ISSU and hot patching	Is it supporting and hot patching?	
		The Switch should support automatic configuration via DHCP auto configuration	Is it supporting automatic configuration via DHCP auto configuration?	
		The Switch should support NTP, SNTP and PTP	Is it supporting NTP, SNTP and PTP ?	
5	**Resiliency and high availability**			
		The Switch shall have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 router The switch should support up to four switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter two-tier networks and switch should support single IP management up to six Switch	Compliance (Yes/No)	

		The Switch should support IEEE 802.1w Rapid Convergence Spanning Tree Protocol	Is it supporting IEEE 802.1w Rapid Convergence Spanning Tree Protocol?	
		The Switch should support IEEE 802.1s Multiple Spanning Tree	Is it supporting IEEE 802.1s Multiple Spanning Tree?	
		The Switch should support Virtual Router Redundancy Protocol (VRRP)	Is it supporting Virtual Router Redundancy Protocol (VRRP)?	
		The Switch should support Device Link Detection Protocol (DLDP) or equivalent protocol	Is it supporting DLDP or equivalent?	
6	**Layer 2 switching**			
		The Switch should support MAC-based VLAN	Is it supporting MAC-based VLAN?	
		The Switch should support Address Resolution Protocol (ARP) and supports static, dynamic, and reverse ARP and ARP proxy	Is it supporting Address Resolution Protocol (ARP) and supports static, dynamic, and reverse ARP and ARP proxy?	
		The Switch should support IEEE 802.3x Flow Control	Is it supporting IEEE 802.3x Flow Control?	
		The Switch should support Ethernet Link Aggregation	Is it supporting Ethernet Link Aggregation?	
		The Switch should support IEEE 802.3ad Link Aggregation of up to 128 groups of 32 ports and support for LACP, LACP Local Forwarding First, and LACP Short-time provides a fast, resilient environment that is ideal for the data center	Is it supporting IEEE 802.3ad Link Aggregation of up to 128 groups of 32 ports and support for LACP, LACP Local Forwarding First, and LACP Short-time ?	
		The Switch should support STP (IEEE 802.1D), Rapid STP (RSTP, IEEE 802.1w), and Multiple STP (MSTP, IEEE 802.1s)	Is it supporting STP (IEEE 802.1D), Rapid STP (RSTP, IEEE 802.1w), and Multiple STP (MSTP, IEEE 802.1s)?	
		The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	Is it supporting for IGMP Snooping, Fast-Leave, and Group-Policy; IPv6 IGMP Snooping provides Layer 2 optimization of multicast traffic?	
		The Switch should support for IGMP Snooping, Fast-Leave, and Group-Policy; IPv6 IGMP Snooping provides Layer 2 optimization of multicast traffic	Is it supporting for IGMP Snooping, Fast-Leave, and Group-Policy; IPv6 IGMP Snooping provides Layer 2 optimization of multicast traffic?	
		The Switch should support DHCP support at Layer 2	Is support DHCP support at Layer 2?	

7	**Layer 3 services**			
		The Switch should support Address Resolution Protocol (ARP)	Is it supporting Address Resolution Protocol (ARP)?	
		The Switch should determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network	Does it determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP ?	
		The Switch should support simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets	Is it supporting simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets?	
		The Switch should support for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that can be used for fast fault detection and recovery	Is it supporting for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that ?	
8	**Layer 3 routing**			
		The Switch should support Virtual Router Redundancy Protocol (VRRP) and VRRP Extended	Is it supporting Virtual Router Redundancy Protocol (VRRP) and VRRP Extended?	
		The Switch should support Policy-based routing	Is it supporting Policy-based routing?	
		The Switch should support Equal-Cost Multipath (ECMP)	Is it supporting Equal-Cost Multipath (ECMP)?	
9	**Layer 3 IPv4 routing**			
		The Switch should support static routes, RIP and RIPv2, OSPF, BGP, and IS-IS	Is it supporting static routes, RIP and RIPv2, OSPF, BGP, and IS-IS?	
		The Switch should support Border Gateway Protocol 4 (BGP-4)	Is it supporting Border Gateway Protocol 4 (BGP-4)?	
		Intermediate system to intermediate system (IS-IS)		
		The Switch should support Static IPv6 routing	Is it supporting Static IPv6 routing?	

		The Switch should support separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design	Is it supporting separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design?	
		The Switch should support Routing Information Protocol next generation (RIPng) extends RIPv2 to support IPv6 addressing	Is it supporting Routing Information Protocol next generation (RIPng) extends RIPv2 to support IPv6 addressing?	
		The Switch should support OSPF support for IPv6, BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing,IS-IS for IPv6	Is it supporting OSPF support for IPv6, BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing, IS-IS for IPv6?	
10	**Layer 3 IPv6 routing**			
		The Switch should static routing, RIPng, OSPFv3, BGP4+ for IPv6, and IS-ISv6	Is it supporting static routing, RIPng, OSPFv3, BGP4+ for IPv6, and IS-ISv6?	
		Green IT and power		
		The Switch should able to shut off unused ports and utilizes variable-speed fans, reducing energy costs	Does it able to shut off unused ports and utilizes variable-speed fans, reducing energy costs?	
11	**Management**			
		The Switch should allow users to copy switch files to and from a USB flash drive	Does it allow users to copy switch files to and from a USB flash drive?	
		The Switch should support Multiple configuration files and stores easily to the flash image	Is it supporting Multiple configuration files and stores easily to the flash image?	
		The Switch should SNMPv1, v2c, and v3	Does it have SNMPv1, v2c, and v3?	
		The Switch should support Dual flash images (two softwares in flash memory)	Is it supporting Dual flash images?	
		The Switch should provide support of local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated	support of local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the	

		The Switch should provide a central repository for system and network information; aggregates all logs, traps, and debugging information generated by the system and maintains them in order of severity; outputs the network information to multiple channels based on user-defined rules	Is it providing a central repository for system and network information; aggregates all logs, traps, and debugging information generated by the ?	
12	**Security**			
		The Switch should provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number		
		The Switch should support RADIUS/TACACS+	Is it supporting RADIUS/TACACS+?	
		The Switch should support Secure shell encrypt all transmitted data for secure remote CLI access over IP networks	Is it supporting Secure shell encrypt all transmitted data for secure remote CLI access over IP networks?	
		The Switch should support IEEE 802.1X and RADIUS network logins	Is it supporting IEEE 802.1X and RADIUS network logins?	
		The Switch should support allow access only to specified MAC addresses, which can be learned or specified by the administrator	Is it supporting allow access only to specified MAC addresses, which can be learned or specified by the administrator?	
		The Switch should support LLDP-MED (Media Endpoint Discovery)	Is it supporting LLDP-MED (Media Endpoint Discovery)?	
13	**Software Defined Networking (SDN) Capability**			
		The Switch should have Open Flow 1.3.1 protocol capability to enable software-defined networking from Day one	Does it have Open Flow 1.3.1 protocol capability to enable software-defined networking from Day one?	
		The Switch should Allow the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an external SDN Controller, utilizing Open flow protocol	Does it Allow the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an external SDN Controller, ?	

14	**Certification**			
		The switch should have UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2, IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Emissions : VCCI Class A	Compliance certification? (Yes/No) Attach proof	
15	**Warranty**	Onsite warranty support.	3 Years	

(C)	**Migration of DAVV existing applications and services**	Migration of existing DAVV network and in-house application services on HCI server. There are about 14 services running. Ex. Web service, LDAP authentication, DNS, E-mail, digital library etc. the bidder will have to ensure successful migration of these services on new server	Agree (Yes/No)	

Ref: DAVV/ITC/SERVER/2018-19/1-1 **Annexure II**

Online Financial Bid C

(To be quoted Online on prescribed proforma only)

To,

The Registrar,
Devi Ahilya Vishwavidyalaya,
Nalanda Campus, RNT Marg, Indore.

Sub: – **Quotation for Server with Storage and Virtualization Software at IT Center Devi Ahilya Vishwavidyalaya, Indore.**

Sir,

This has reference to your call for submitting quotation for **Quotation for Server with Storage and Virtualization Software at Devi Ahilya Vishwavidyalaya, Indore**. I have read all the terms and the conditions as stipulated in the above. I have gone through all the terms and conditions mentioned in the tender document and already given my acceptance for it. I confirm that I fulfill the eligibility criteria as stipulated by you.

I offer my rate in INR as under:

Sl No	Description	Qty	Amount (Rs.)	TAX (Rs.)	Total Amount (Rs.)
	Server with Storage and Virtualization Software as per the details mentioned in (A), (B) and (C) of technical bid	one			
				Grand Total (in figure and in words)	

Signature of authorized signature:

Name and Designation of Authorized Signatory

Seal :

Date & Place:

DECLARATION

I/We…….. do hereby declare that our company/firm is not black listed by Government of India/ any state Govt./ public sector undertaking/University and not involved in any litigation which threatens solvency of the company/firm during last five years.

I/We further undertake that if above declaration probes to be wrong/incorrect or misleading our tender/contract stands to be cancelled/terminated.

I/We solemnly declare that I/we have attached all the documents mentioned here above and mentioned in the tender. I/We also understand that non-compliance of any documents will be treated as no- respective tender and we will lose our claim to participate in the tender enquiry automatically and our tender will be liable for rejection.

Signature of Authorized Person:

Name and designation :

Seal

Date: ……
Place: ……..

CHECK LIST FOR BIDDER TO BE SUBMITTED ALONG WITH TENDER

Mention Yes/No with the Details required:

1.	Tender Document	
2.	E.M.D. (To be paid online through e-procurement portal in favor of Registrar, Devi Ahilya Vishwavidyalaya, Indore. Bidder is required to upload the scanned copy of e-transaction details**.)**	
3.	Technical Bid (online and offline mode) I. Covering Letter II. General Information III. Eligibility Criteria for Pre-qualification IV. Technical Bid details V. all supporting documents required in above. VI. Non- blacklisted declaration mentioned in Annexure III	
4.	All documentary evidences dully attested in offline mode and scanned copy (.pdf) in online mode.	
5.	Documents other than mentioned in technical bid (if any)	

Signature of Authorized:

Name of the authorized Signature:

Seal of the Company

Annexure V

Devi Ahilya Vishwavidyalaya, Indore
IT Center

TERMS & CONDITIONS

On-line Bids are invited from the Reputed, experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for Supply & installation of **Server Computer with storage and virtualization software.**

INSTRUCTIONS TO BIDDERS

1. **EARNEST MONEY DEPOSIT (EMD):-**

   a) The EMD amount is interest free and will be refundable to the unsuccessful bidders without any accrued interest on it.

   b) The bid / proposal submitted without EMD, mentioned above, will be summarily rejected.

   c) The EMD will be forfeited:

      - If a bidder withdraws its bid after closing date and time of bid and during the period of bid validity.

      - In case of a successful bidder, if the bidder fails to supply the server computer in accordance with this Bid.

   e) E-transaction details of EMD and tender fees along with other documents mentioned in point no. 2 below shall be submitted in the Sealed envelope titled "**Server with storage and virtualization software Purchase at DAVV**" in IT Center, Central Library Building, Takshashila Campus, Devi Ahilya Vishwavidyalaya, , Khandwa Road, Indore, on or before from end date & time of online submission of bid.

2. **Eligibility Criteria:**

   a. Minimum Turnover Rs. 10 Crore per financial year in last three years (2015-16, 2016-17, 2017-18)
   b. The bidder Company should be ISO 9001 certified
   c. The bidder must have executed at least one order for supply and installation of server of similar capability with virtualization software preferably based on HCI technology.

3. The seller/ bidder must submit following documents (duly signed and stamped) in the sealed envelope one day before from end date & time of the technical bid submission.
   a. E-transaction details of EMD and tender fees.
   b. Goods & Services Tax Identification Number (GSTIN) registration at Tax Department of Government.
   c. Permanent Account Number (PAN).

d. Reputed, experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer may participate. If, bidder is an authorized dealer of OEM, he must submit legible self-attested copy of authorization certificate issued by the OEM (Original Equipment Manufacturer) for this particular e- bid. There will be separate authorization letters for server and TOR switch by respective OEM(s).

e. Bidder must submit OEM authorization letter exclusively for this bid and it must also be mentioned that all product support and services will be ensured by OEM till warranty period. All products and services for quoted product will not reach "END OF LIFE" for next five Years from the date of Commissioning.

f. All licenses provided, if any, shall be perpetual in nature. Any software update/patches must be available without any extra cost.

g. Any hardware and/or software fault must be attended and thereafter the action should be taken by the vendor immediately. The vendor is liable to pay penalty as per the provision made. Vendor must provide contact details of its technical support team as well as OEM's technical team hierarchy in the form of Escalation Matrix.

h. A self-certified letter in the format shown in annexure III by the authorized signatory of the bidder must be submitted as an affidavit on non-judicial stamp paper of Rs. 10/-.

i. Information Accessibility: Bidder must submit product details, specifications and brochure. These documents to be made available in public domain. Also vendor must mention the Official URL.

j. The successful Tenderer(s) will provide following:

(i) Supply and installation of equipment with storage and virtualization software.
(ii) Migration of existing DAVV network and in-house application services on HCI server. There are about 14 services running. Viz. Web service, LDAP, E-mail, DHCP, Caching DNS, External DNS, Mat Lab, Cadence, digital library, Research compendium, User management, MIS services, File tracking, and Sys Log . The bidder will have to ensure successful migration of these services on the new server.
(iii) Service during warranty period on site for 36 months from the date of installation.
(iv) Hand holding support for 3 months from the date of installation.
(v) Advance & complete training of DAVV personnel. The trainer should be from the OEM. The training would start after successful installation of hardware and software in real environment.

4. DELIVERY PERIOD: 6 weeks from the date of placing the supply order.

5. BID REJECTION:-

The Bid will be rejected under any one or more of the following cases.

a) Non-production of original documents for verification, if required.
b) Non-submission of requisite Bid Security (EMD), before closing date & time of submitting / uploading the bid on e-procurement web-site.

c) Not meeting the Technical Specifications.
d) If Bidder found indulging in malpractice of pooling of Bid.
e) Lack of requisite documents for Technical Bid during opening of bid

6. Penalty Provisions:

- Delay will be calculated from the date and time of registering the fault with the Successful vendor.
- Service support for Virtualization related issues – 24 X 7 basis.
  Support for Hardware related issue - NBD
  Failure to maintain above deadline would result in a penalty of Rs. 1000/day.

6. PERFORMANCE SECURITY:-

a. The successful Bidder has to deposit a performance security, which will be the 5% (five percent) of the total quoted value of contract. The performance security should be in the form of FDR / Bank Guarantee from a nationalized scheduled and commercial bank in favour of Registrar, Devi Ahilya Vishwavidyalaya, Indore. The Performance Security (Security Money) shall bear no interest. The Performance Security should be valid for a period of 60 days beyond the completion of all warranty period. The performance security will be forfeited in case the successful Bidder fails to supply as per the supply order or fail to meet the obligations under warranty period.

b. Failure of the successful Bidder to furnish the Performance Security shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security (EMD).

7. DELIVERY & INSPECTION

a. Delivery of items / goods will be made in the IT Center, Takshashila campus, Devi Ahilya Vishwavidyalaya, Khandwa Road, Indore-452001 without any extra cost.
b. The inspection of the Goods shall be carried out to check whether the Goods are in conformity with the technical specifications mentioned in tender document.
c. Firms fail to supply the items as per specification mentioned in the tender document within stipulated time, its performance security will be forfeited.
d. Original Manuals, Data Sheets, Installation Documents and any other documents relevant to the hardware, and software supplied by the Bidder.

General Terms and Conditions

1. The track record of the bidder should be clean and should not have any involvement in illegal activities or financial misappropriation /frauds etc.
2. We do not intend to call vendors for financial negotiations. Vendor should, therefore, quote their lowest possible rates.
3. The authorized person of bidding firm must put his signature on all the pages of the tender documents invariably in having accepted all the terms and conditions in respect of this tender work.
4. The bidder must be registered with Provident Fund, ESI, and GST and should have PAN/TAN from Income Tax Department.
5. DAVV may modify the specifications in the best interest of the University, if

necessity arises. Any change or modification in the tender document will be notified on University website **https://www.dauniv.ac.in**

6. DAVV reserves the right to reject any or all offers without assigning any reason thereof.
7. Bids received after due date will be summarily rejected**.**
8. The bidders are required to submit the required details strictly in the specified format, failing which; their tender is likely to be rejected.
9. **Disputes Resolution:** All questions, disputes and/or difference arising under or in connection with this tender enquiry or in any way touching or relating to or concerning the construction, meaning or effect or the terms herein, shall be referred to the sole arbitration of Registrar, DAVV, Indore. The award of the arbitrator so appointed shall be final and binding. All disputes shall be under jurisdiction of Indore court only.
10. The lowest rate will not be the only basis of claim to get the order.

11. Payment conditions:

	Details		**Payment (% of total cost)**
(i)	Hardware delivery and power on installation.	-	80%
(ii)	Successful installation of OS and Virtualization software.	-	10 %
(iii)	Training and Migration of DAVV Application and services.	-	10%

****