

	Server Specification
1	Server - 4 Numbers
	2 U rack mountable Server
	2 x AMD EPYC Series 2.0GHz, 24C/48T, 64M Cache (155W/170W) DDR4-2400/2666 or higher
	24 x 2.5" SAS/SATA Hard Drives Chassis or higher
	512 GB RDIMM, 2666MT/s, Dual Rank or higher
	21 x 1.8TB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive or higher
	3 x 800 GB SSD SAS Write Intensive 12Gbps 2.5in Hot-plug Drive or higher
	2 x M.2 Sticks 240G (RAID 1) or Equivalent
	Non-RAID Controller, Data transfer rates Up to 12Gb/s per port, Supports up to 128 physical devices or higher
	Hot-plug Redundant Power Supply
	Quad Port 1GbE BASE-T or higher
	Quad Port 10GbE BASE-T Adapter or higher
	Rack Mounting Kits
	VMware ESXi 6* or an equivalent** Type 1 Hypervisor
	5 Year Onsite OEM Warranty
	Operating System and Software Licenses
2	Academic VMware vSAN 6* Standard (or equivalent**) for 8 sockets
	Academic Production Support/Subscription for VMware vSAN 6* Standard (or equivalent**) for 8 sockets for 3 year
	Academic VMware vSphere 6* Enterprise Plus (or equivalent**) for 8 sockets
	Academic Production Support/Subscription VMware vSphere 6* Enterprise Plus (or equivalent**) for 8 sockets for 3 year
	Academic VMware vCenter Server 6* Standard for vSphere 6* (Per Instance) or equivalent**
	Academic Production Support/Subscription VMware vCenter Server 6* Standard for vSphere 6* (Per Instance) or equivalent** for 3 year
	Microsoft Windows 10 Professional Volume licensing - 10 No.
<p>* (i). The minor version of each product to be supplied should be one minor version before the latest minor version. For example, if the latest release is 6.7, we require release 6.6 (or 6.5 based on actual release)</p> <p>(ii). The minor versions of each product to be supplied should be inter-operable and compatible with each other. There should not be any known compatibility issues.</p> <p>** (i) Future expansion to add more nodes independent of Hardware manufacturer should be possible.</p> <p>(ii) Server hardware manufacturer (of item 1) should have mentioned the compatibility of the hypervisor software with Server in the data sheet, available in the public domain.</p> <p>(iii) The HCI solution provider should be in the Leaders Quadrant of Gartner 2019 Magic Quadrant for Hyperconverged Infrastructure.</p>	
	TOR Switch specification
3	Switch - 2 Numbers
	High-performance open networking top-of-rack switches with multirate Gigabit Ethernet and unified ports
	1 U Rack Mountable
	24x10GbT + 2x QSFP28 Ports
	Switching capacity 960Gbps or Higher
	Throughput 700Mbps or Higher
	2 x AC PSU, Atleast 2x Fan module
	Should support software Defined Networking from Day One without any additional Licences
	Should Support Python or Bash Scripting
	Packet buffer memory 12MB or Higher
	CPU memory: 4GB or Higher
	Layer3 VLANs: 500 or Higher
	Jumbo MTU support 9,416 bytes or Higher
	Should Support sFlow and openFlow
	SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 0.5 Meter
5 Year Onsite OEM Warranty	
	RACK
4	Rack 42 U – 1 Number
	Standard 42U 800mmW/1000mmD fully perforated front & back door and side panels, holes should be evenly distributed from top to bottom to permit adequate airflow (equivalent to 64 percent open areas for ventilation), preferably black Color
	Should have 42U of vertical mounting space and the servers, KVM (8 Ports) and Monitor Console should be provided and should fit into the rack and necessary rack mount plates/kits to be provided.
	Rack doors should have locking arrangements both front panel and rear panel
	Adequate clearance should be available between the installed rack component and the side panels of the rack
	The RACK should have one number Earthing Kit, One number Cable Manager Horizontal 1U
	The bidder should provide 2 (two) nos. Power Distribution Units (PDU) - PDU should have a 32A MCB, a neon Indicator, 16 x IEC C13 Sockets (5 A / 15 A) and at least 3.0 meter cable for connection to the external power source
	Castors (One set of 4) , One number Stationary Shelf , One number Keyboard tray rotary with slides , two numbers mounting hardware (Each Pack of 10)
	One number Temperature Indication Unit
	Two numbers 24 port 1 RU Patch Panel for Rack. Sufficient number of CAT 6A patch cords to be supplied.
	The Patch Panel should be terminated with its necessary components and Cable Manager
	The bidder shall have to mount new as well as existing servers in the rack and will have to provide the rack mounting kit accordingly
	Compliance to EIA-310-D. The bidder has to supply Rack design diagram
	Appropriate Cables for connecting Keyboard, Monitor, Mouse etc to be provided
	Supporting atleast 800 Kgs load. Bottom cover with knock out holes for cable entry to be provided
Fans to be mounted on Rear Door / Roof	
Copper based Electrical Grounding / Earthing 20x3 mm copper strip	
Adjustable screw legs – 4 No	