Adigrat University Virtual Desktop Infrastructure (VDI) National Bid 2009 E.C

		Adigrat Univ	ersity Virtual Desktop Infrastructure (V					
Rno 1	Virtual desktop management platform	Basic features	Minimum Requirement The virtualization platform and desktop cloud platform must have the same brand. The virtualization platform and desktop cloud platform must have independent intellectual property rights and provide proofs.	Unit set	Qty 1	Unit price	Total Price	Remark
			The bidder must be a member of international mainstream cloud computing organizations (such as Xen and OpenStack) and provide related proofs.					
			To keep quality, the virtualization platform, server, storage should be listed in Gartner Magic Quadrant, provide related proofs.					
		Requirement	The desktop cloud system can support centralized management of more than 20,000 desktops. The VM can supports a maximum of 1 TB memory The VM can supports a maximum of 64 VCPUs. The VM can supports a maximum of 64TB disk. The VM can supports a maximum of 12 virtual NICs.					
2	Host Blade	I/O Module	Maximum 4 slots switch modules	set	2			
	Servers Chassis		Switching capability of 15.6 Tbit/s. Four types of interfaces must be supported: GE, 10GE, FC, and IB.					
		I/O port	A maximum of 128 I/O ports must be supported. 6 pieces of 16*10GE Switch Module should be provided					
		Management module	6					
		Blade type	Maximum 16 half-width slots or 8 full-width slots; supports flexible configurations of single-slot, dual- slot, full-width, and half-width nodes					
3	Host Blade Servers Type	CPU	X86 series,FCLGA2011,2500MHz,1.8V,64bit,120000mW, Haswell EP Xeon E5-2670 v3,12Core	pcs	24			
		Number of CPUs	2 CPUs should be provided.					
		Memory type	1.5TB memory is supported. 1.5TBshould be supported.					
		Hard disk type	2.5-inch SAS, SATA, and SSD hot-swappable hard disks must be used. 10*2.5-inch 600GB SAS should be provided for each server.					
		Driver bay	2pcs-300GB-SAS-10000rpm-2.5 Hot Swappable hard disk should be provided					
4	Storage System	Storage processors System cache per controller	Multi-core processors Maximum 128GB, 48GB should be provided	set	2			
		number of controllers	Maximum 8 controller should be supported and should be provided redundant controllers as per the standard.					
		Front-end port types	1 Gbit/s Ethernet, 10 Gbit/s FCoE, 10 Gbit/s TOE, 16 Gbit/s Fibre Channel, 56 Gbit/s InfiniBand supported, 8*GE port should be provided					
		Disk Bay	45*2.5-inch 900GB 10K RPM SAS hard disk with related disk enclosure should be configured 30*3.5-inch 4TB 7.2K NL-SAS hard disk with related disk enclosure would be configured					
		Max. capacity of a single file	256 TB					

		Key Software Features	Device Management, LUN copy, LUN clone, Snapshot,Thin provisioning, Multi-tenant, Migration, tMotion, QoS, SSD cache, Cache partitioning, Storage tiering Data destruction, Volume mirroring should be provided			
5	Thin client (TC) with 17" monitor for Cloud VDI library	One or more GE ports (RJ-45) must be provided. Low-power-consumption ARM dual-core processors must be used, with the frequency being 1.5 GHz or higher. NandFlash is supported, with the capacity being 4 GB or larger. When the same content is displayed on DVI and VGA, the maximum resolution must be 1920 x 1200@60 Hz.			1545	The thin clients should be with monitor and all other
6	48 port Switch	Switching capacity Forwarding performance Fixed ports	200Gbit/s 78Mpps 48x10/100/1000BASE-T ports and 4x10G SFP+ ports.	set	36	accessories.
7	Server and Storage access switch	Port requirement Switching capacity Forwarding performa	48x10G SFP+ ports. Or 2/4/6 FC Ports 4*40GE QSFP+ ports;Stackable should be included 1200Gbps 960 Mpns	set	2	
8	UPS (6KVA) (F or switches) and accessory power distribution	Standard battery set minutes at full load (offers 30 minutes runtime at half load (2700W) and 15	pcs	6	
9	UPS (20KVA, for Monitor and TCs) and accessory power distribution	minutes at full load (offers 30 minutes runtime at half load (9000W) and 15 18000W) ries for 4 post rackmount installation.	pcs	12	
10	Electric	circuit breaker(63A)	63A	pcs	21	
	Equipment	Electrical Wire 2.5 m	Red color (10 roll)	roll	30	Elswedy or
			Green Color (10 roll) Blue Color (10 roll)	roll roll	30	other equivalent
			Yellow Color (10 roll)	roll	30	is
			Brown Color (10 roll)	roll	30	recommend
		71	Black color (10 roll)	roll	30	ed.
		Electrical cable	Electrical cable 5x6 mm2 from main distribution to sub distribution board	Meter	400	
		Circuit Breaker	Circuit breaker of 63A	pes	15	Chint or equivalent.
		Circuit Breaker Connector	Circuit breaker of 63A With 0.9 mm2 diameter	pcs pkt	15	
		Connector Twin socket flush me	With 0.9 mm2 diameter 10-16A/1P twin socket outlet			equivalent. 1 packet=100
		Connector Twin socket flush me	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of • 1Pcs main MCB of 63A/3P • 12Pcs MCB of 25A/1P • 25% reserve pitches	pkt Pcs	60	equivalent. 1 packet=100
		Connector Twin socket flush model Distribution board	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of • 1Pcs main MCB of 63A/3P • 12Pcs MCB of 25A/1P • 25% reserve pitches Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 40A rating consists of • 1Pcs main MCB of 40A/3P • 8Pcs MCB of 25A/1P 25% reserve pitches	Pcs pcs	1750 15	equivalent. 1 packet=100
		Connector Twin socket flush me	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of • 1Pcs main MCB of 63A/3P • 12Pcs MCB of 25A/1P • 25% reserve pitches Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 40A rating consists of • 1Pcs main MCB of 40A/3P • 8Pcs MCB of 25A/1P	pkt Pes pes	1750 15	equivalent. 1 packet=100
		Connector Twin socket flush mc Distribution board End tap plastic tape Trunk	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of • 1Pcs main MCB of 63A/3P • 12Pcs MCB of 25A/1P • 25% reserve pitches Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 40A rating consists of • 1Pcs main MCB of 40A/3P • 8Pcs MCB of 25A/1P 25% reserve pitches To close the end part of the trunk To close the end part of the trunk	Pcs pcs Pcs Pcs Pcs Pcs Pcs	9 25 20 400	equivalent. 1 packet=100
		Connector Twin socket flush mc Distribution board End tap plastic tape Trunk Divider	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of 1Pcs main MCB of 25A/1P 12Pcs MCB of 25A/1P 25% reserve pitches Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 40A rating consists of 1Pcs main MCB of 40A/3P 8Pcs MCB of 25A/1P 25% reserve pitches To close the end part of the trunk 100mm*50mm double compartment PVCI truncking/pc Power divider with 6 ports	Pes pcs Pes Pes Pes Pes Pes Pes	9 25 20 400 15	equivalent. 1 packet=100
		Connector Twin socket flush mc Distribution board End tap plastic tape Trunk	With 0.9 mm2 diameter 10-16A/1P twin socket outlet Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 63A rating consists of • 1Pcs main MCB of 63A/3P • 12Pcs MCB of 25A/1P • 25% reserve pitches Flush mounting distribution board SDB-A1 in sheet steer enclosure with lockable door and with phase, neutral and earth bus-bars of 40A rating consists of • 1Pcs main MCB of 40A/3P • 8Pcs MCB of 25A/1P 25% reserve pitches To close the end part of the trunk To close the end part of the trunk	Pcs pcs Pcs Pcs Pcs Pcs Pcs	9 25 20 400	equivalent. 1 packet=100

		Cable tie	Beaded cable ties: cable to be releasable and reusable. Standard black. Self-locking cable ties with specially designed end for easier insertion into the lock Flame resistance, Tensile strength, Good resistance to chemicals, Black version for outdoor use. Length more than 140 mm		1000		
11	Furniture	Computer Table	Computer table(Mahagony)-computer table, all parts to be made up of high pressure laminated (HPL) chip wood material and laminated with mahogany veneer material to form the panels having a minimum thickness of 20mm. Exposed parts will be covered by mohagony shelf and sliding keypad Tryon rollers will NOT be provided, caster wheel will not be provided. The depth stand should be 250 mm far from the rear side of the table. The table should have three standard holes of 100mm diameter in the rear view with in the 150 mm distance from it. The holes should be at the middle of the table with distance of 170mm between them. Size: 800mmx50mmx750mm. More clarification can be obtained from the customer		1550		Import standard
		Chair (Grey)	Chair (Grey) – chair to be provided will be without arm set, deep cushioned and back upholster with thickness of 30mm foam and packed by plastic or plywood, covered with high quality fabric, constructed with 20*20*15mm squire pipe support with rubber foot, gray, 460*420*450.	pcs	1550		Import standard
12	Accessories	fiber related compone	as docoration, furnitures, carpets, electrical equipments, enets, UTP cable and related units, Network equipment, r relevant materials for successsful deployment of the nsidered.	set			
13	Installation, Commissioning, and testing	facilities after deliver Successful Bidders at rooms from the near required to make nec Any form of deforma	re required to extend the optic fiber lines to the VDI by building or the university data center. They are also essary splicing and expansion of fiber lines. tions or changes to the building or other facilities during ioning, and testing must be patched or repaired or	set			
12	Relevant Trainings & Visits	On-Site Trainings	Successful Bidders are required to arrange germane onsite trainings for the AdU-ICT staffs covering all concomitant expenses during & after installation & commissioning.	pcs	5		
		On-factory Trainings & Visits	Successful Bidders are required to arrange visits to factories and on-factory trainings (on Facilities installation, configuration, & management) & certifications prior to the start of installation works covering all concomitant expenses (per-dime + certification fees + Air transport fares).	pes	2		
		<u> </u>		L .	Total Price		