

Adigrat University Network Installation National Bid for 2010 E.C Lot: 3

Rno	ITEM	Minimum Requirement	Unit	Qty	Unit price	Total Price	Remark
1	Trunking - 60mm x 40mm	Trunking for data cables, it should be European Standard,1 pcs should be 2 meters length with in some standard holes.	Pcs	8000			
2	Trunking - 100mm x 40mm with separate mains power section	Trunking for data cables, it should be European Standard, 1 pcs should be 2 meters length.	pcs	1000			
3	Fisher 8mm, Haji make	Fisher 100 per box	Box	100			
4	Fisher 10mm, Haji make	Fisher 100 per box	Box	50			
5	Screws 8mm that fits to the 8mm fisher	Screws 100 per box	Box	100			
6	Screws 10mm that fits to the 10mm fisher	Screws 100 per box	Box	50			
7	RJ-45 surface mounted single socket. Including backplate, faceplate (with screws), keystone	RJ-45 socket/face plate and keystone (CAT6e) -single- All parts of same make	pcs	250			

8	RJ-45 surface mounted dual socket. Including backplate, faceplate (with screws), keystone	RJ-45 socket/face plate and keystone (CAT6e) -dual- All parts of same make	Pcs	2000			
9	UTP CAT6e cable - 305m box	CAT6e cable, the cable should include cable information labled on it and it should be full copper.	Box	400			
10	Single Mode Fiber	Fiber cable - Single-Mode 12-core loose tube armoured outdoor cable - 9/125 cable. Suitable for direct burial, rodent resistant and waterproof. Must be provided on reel (will not be accepted without storage reel). New and complete reel of fiber optic single-mode 9/125 cable. Evidence of Single-mode cable must be provided on cable.	meters	5,000			
11	MultiMode Fiber	Fiber cable - Multi-Mode 12-core loose tube armoured outdoor cable - 50/125 cable. Suitable for direct burial, rodent resistant and waterproof. Must be provided on reel (will not be accepted without storage reel). New and complete reel of fiber optic Multi-mode 50/125 cable. Evidence of Multi-mode cable must be provided on cable.	meters	2,500			
12	Fiber Optic Patch panel (inlink) 12 port with cable management - LC connectors - 1U - rack mounted	19" (inch) rack mounted 12 port fiber patch panel - LC connectors - Inlink make or equivalent	Pcs	35			
13	Fiber optic cable - multi-mode cable 50/125mm - Duplex - LC-LC connector - 5m length	Fiber optic duplex cable - multi mode - LC-LC connectors - 5m length. The connector should have labeled cable information on it.	Pcs	50			
14	Fiber optic cable - single-mode cable 9/125mm - Duplex - LC-LC connector - 5m length	Fiber optic duplex cable - Single Mode - LC-LC connectors - 5m length. The connector should have labeled cable information on it.	Num	50			
15	Fiber optic pigtail cable - 9/125mm - single mode - LC connector	Single mode fiber pigtail - 9/125mm - LC connector	Pcs	50			

16	Fiber optic pigtail cable - 50/125mm - Multi- mode - LC connector	Multi-Mode fiber pigtail - 50/125mm - LC connector	Pcs	50			
17	Multimode SFP Module	Optical Transceiver,SFP, 1GE,Multi-mode Module (850 nm, 0.3 km, LC)	Pcs	20			
18	Singlemode SFP Module	Optical Transceiver,SFP, 1GE, Single-mode Module (1,310 nm, 1km, LC)	Pcs	20			
19	Multimode SFP Module	Optical transceiver, SFP+, 10G, multimode module (850 nm, 0.3 km, LC)	Pcs	30			
20	Singlemode SFP Module	Optical Transceiver,SFP, 10 GE,Single-mode Module (1,310 nm, 10 km, LC)	Pcs	35			
21	Bosch Drill Machine	Bosch PSB corded Hammer drill 1000W or above with compact pen 4 in 1 pocket screw driver. Germany made and it should have proper label on it. It should include	pcs	15			
22	Concrete Drill bit	Hammer power masonry-Drill bit with 30mm diameter and 45 cm, Germany made and	pcs	10			
23	Concrete Drill bit	Hammer power masonry-Drill bit with 22mm diameter and 45 cm, Germany made and	pcs	10			
24	Concrete Drill bit	Hammer power masonry- drill bit with 8mm, Germany made and with label on the drill	pcs	50			
25	UTP Patch panel - 48 port UTP CAT6e - Inlink or mini-pro make or other equivalent	Rack mounted patch panel - Inlink or mini-pro make or other equivalent	pcs	35			
26	UTP Patch panel - 24 port UTP CAT6e - Inlink or mini-pro make or other equivalent	Rack mounted patch panel - Inlink or mini-pro make or other equivalent	pcs	40			

27	24 Port POE Switch	Switching capacity	320Gbit/s	pcs	40			
		Forwarding performance	90Mpps					
		Fixed ports	24x10/100/1000Base-T PoE Ethernet ports, 4x10GE SFP+ ports					
28	48 port POE Switch	Switching capacity	320Gbit/s	pcs	35			
		Forwarding performance	130Mpps					
		Fixed ports	48x10/100/1000Base-T PoE Ethernet ports, 4x10GE SFP+ ports					
29	Server and Storage access switch	Port requirement	48x10G SFP+ ports. Or 2/4/6 FC Ports 4*40GE QSFP+ ports;Stackable should be included	set	2			
		Switching capacity	1200Gbps					
		Forwarding performance	960 Mpps					
30	Data Center Firewall	8GE(RJ45)+4GE(SFP),4GB Memory,1 AC Power,with IPS-AV-URL Function		pcs	2			
31	Data center battery charger	Kende or Equivalent, Type: Maintenance Products, Model Number: CD-620 or equivalent		pcs	2			
32	Screw Drivers	Light weight, compact and High torque, Easy maintenance, Rear exhaust direction mechanism with silencer prevents the release of unpleasant oil mist, Oil bath lubrication mechanism realizes the extension of parts life time and minimizes noise Bolt capacity range: M3-M8		set	8			
33	Mentenance Tollkit	All in one european standard network tollkit		set	20			

34	Fusion Fiber Splicing Machine	Features	Rugged construction providing shock, dust and moisture resistance. Dual monitor position with automatic image orientation. Automatic arc calibration and fiber identification. Auto-start tube heater feature. Simultaneous battery charge and splicer operation. Long life battery (up to 100 splice/shrink cycles per charge). Color LCD display with anti-reflective coating for excellent visibility.	Pcs	1			NB: All necessary accessories must be included!
		Splicing Capability	Fusion Splicer. 2 to 12 fiber ribbon splicing, as well as, single fiber splicing capability. Splicer withstands a drop test of up to 30".					
		Applicable Fibers	Single-Mode, Multimode					
		Fiber Cleave Length	10mm					
		Typical Average Splice Loss	0.02dB with SM, 0.01dB with MM					
		Splicing Time	Typical 7 sec with SM fiber					
		magnification	35X to 90X					
		Fiber Display	X or Y or Both X and Y simultaneously; front or rear monitoring display options with automatic image orientations.					
		Terminal	USB(1.1) for PC communication,					
		Accessories	Includes: Cleaver, Hot Jacket Stripper, Fiber Holders (pair), Magnifier, AC Adapter, Battery, Battery Charge Cord, Magnifier, Splice Sleeve Cooling Tray.					
			Transit Case with Carrying Strap, Cooling Tray, USB Cable, Splicer Carrying Strap, Spare Electrodes (pair), and Instruction Manual.					

35	Handheld OTDR (Optical Time-Domain Reflectometer)	Emitter Type	Laser	Pcs	1			NB: All necessary accessories must be included!
		Fiber Support	Multimode(850/1300nm) and Single mode(1310/1550nm)					
		Wavelength Tolerance	(+-dB20/+-dB30)					
		Event Dead Zone	1.5m					
		Attenuation Dead Zone	9m					
		Range	40km(MM) and 130km(SM)					
		Data Points	up to 16,000					
		Data point Spacing	0.25m (range <= 4km), Range/16000(range >=8km)					
		Distance Uncertainty (m)	(+/-)1+0.005%x distance +data point spacing					
		Power	Removable Lion or 110/220 power Adapter					
Battery life	6 hours or better							
36	Network Toolkit	Features/ Specification	All-in-One Crimp – Tool Effortless terminations with	set	20			
			Multi-purpose cutter and stripper for data, telephone and					
			Punch-down Tool					
			LAN & Telecom Cable Testing Kit					
			Aluminum flashlight; offers illuminated visibility in dark and					
			Ultimate Tool Bag-Rugged carrying case; keeps all the					
NB: All necessary accessories must be included!								
37	Generator for Data Center with all Accessories	Generator	380/220V,1500rpm,50Hz. 3 phase.site output standby power 160KW/200KVA	set	1			The generator should have ATS, Silenser and two set of Battery and foundation or room for containerized generator.
		Generator house	standard Generator house: Weather-proof canopy					
		Spare parts	Recommended spare parts for 1 year operation: ATS, Silenser , Air filter 4PCS, Oil filter 4PCS,Fuel filter 4PCS, Fan belt 1PCS					
		Installation materials	Installation materials and 30 meters Power cable connected from genset to Mains LV switchgear. (power cable, YJV22-3x150mm2+1x70mm2 (XLPE insulated double steel tape armored, PVC jacket sheathed power cable)					
		Oil Tank	Daily fuel tank for 24 hours operation at full load					
		Installation services	Installation and service charge					
		Generator Battery	12V, 200 AH					

38	Accessories	All accessories such as electrical equipments, fiber related componenets, UTP cable and		set	1			
39	Installation, Commissioning and testing	General	Successful Bidders are required to install, commission, and test all network facilities after delivery. Successful Bidders are required to provide fiber and make necessary installation (if required). Any form of deformations or changes to the building or other facilities during installation, commissioning, and testing must be patched or repaired or restored by the supplier/winner.	set	1			
		Intra-building network installation	Bidders should provide LLD for each building. Bidders should provide floor based design for clarity purpose. Bidders should consider future scalability during intra-building design. Bidders must estimate the quantity of material needed for successful implementation of internal network.					
		Inter-building network installation	Bidders should provide LLD for inter building fiber connection. Bidders should provide relative campus network interconnection with the existing infrastructure. Bidders should consider redundancy. Bidders should consider concrete manhole implementation for tracing back the fiber layout. Bidders should provide appropriate warning tabe to be buried for fiber indicator. Bidders must estimate the quantity of material needed for successful implementation of inter-building network installation.					

40	Relevant Trainings	onsite training	Successful Bidders are required to arrange germane onsite trainings for all AdU-ICT staffs covering all concomitant expenses during & after installation & commissioning.	set	20			
		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).	number	5			

Total

NB:-
1) The winner will be determined according the grand total of price but only if the provider meets the minimum technical requirments (see a separate evaluation criterea document).
2) Bidders shall present two copies of technical and finacial douments.
3) consider as a set (including all minimum requirements for the solution). Any missed item for the solution is the responsibility of the winner.
4) Put total cost for installation, training for at least Five university ICT staffs for this purpose.
5) The winner is responsible to install all the listed items as per the request of the University. (The winner is responsible to install all the listed items as per the request of the University)
6) Bidders should conduct site survey to provide appropriate solution and should get final approval from AdU ICT. The site survey(Mandatory) will be conducted on May 21, 2018 and May 23, 2018 10:00 AM at the university.
7)The management of the system should be interoperable with university data center management system.