

AdU Network Installation Bid 2009							
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	6000			
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	2000			
3	Fisher 8mm, Haji make	Fisher 100 per box	Box	250			
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	250			
6	Screws 10mm that fits to the 10mm fisher	Screws 100 per box	Box	40			
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	350			
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	1700			
9	UTP CAT6e cable - 305m box	CAT6e cable, the cable should include cable information labled on it and it should be full copper.	Box	450			
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	9,000			
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	5,000			
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	25			
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	95			
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	95			
15	Fiber optic pigtail cable - 9/125mm - single mode - LC connector	Single mode fiber pigtail - 9/125mm - LC connector	Pcs	100			
16	Fiber optic pigtail cable - 50/125mm - Multi- mode - LC connector	Multi-Mode fiber pigtail - 50/125mm - LC connector	Pcs	100			
17	Multimode SFP Module	Optical Transceiver, eSFP, GE, Multi-mode Module (850 nm, 0.3 km, LC)	Pcs	20			
18	Multimode SFP Module	Optical transceiver, SFP+, 10G, multimode module (850 nm, 0.3 km, LC)	Pcs	50			
19	Singlemode SFP Module	Optical Transceiver, eSFP, 10 GE, Single-mode Module (1,310 nm, 10 km, LC)	Pcs	70			

20	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	pcs	10			
21	Concrete Drill bit	Hammer power masonry-Drill bit with 30mm diameter and 45 cm,	pcs	25			
22	Concrete Drill bit	Hammer power masonry-Drill bit with 22mm diameter and 45 cm,	pcs	40			
23	Concrete Drill bit	Hammer power masonry- drill bit with 8mm, Germany made and with	pcs	70			
24	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	48			
25	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	20			
26	24 Port POE Switch	Switching capacity	320Gbit/s	pcs	20		
		Forwarding performance	90Mpps				
		Fixed ports	24x10/100/1000Base-T PoE Ethernet ports, 4x10GE SFP+ ports				
27	48 port POE Switch	Switching capacity	320Gbit/s	pcs	48		
		Forwarding performance	130Mpps				
		Fixed ports	48x10/100/1000Base-T PoE Ethernet ports, 4x10GE SFP+ ports				
28	Fusion Fiber Splicing Machine	Features	Rugged construction providing shock, dust and moisture resistance.	pcs	1		
			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).				
			Detachable work table incorporated into the transit case.				
		Color LCD display with anti-reflective coating for excellent visibility.					
		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.						
	NB: All necessary accessories must be included!						
29	Handheld OTDR (Optical Time-Domain Reflectometer)	Emitter Type	Laser	pcs	1		
		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				
			NB: All necessary accessories must be included!				

30	Network Tool Kit	Features/ Specification	<p>All-in-One Crimp – Tool Effortless terminations with Comfortable, rubber-embedded handles</p> <p>Multi-purpose cutter and stripper for data, telephone and network installations. Works with Cat3, Cat5, Cat5e, Cat6, Cat6E, Cat7 shielded and non-shielded cable.</p> <p>Punch-down Tool</p> <p>LAN &amp; Telecom Cable Testing Kit</p> <p>Aluminum flashlight; offers illuminated visibility in dark and low-light areas</p> <p>Ultimate Tool Bag-Rugged carrying case; keeps all the superior Ultra tools safe inside a durable and easy-to-carry case.</p> <p>NB: All necessary accessories must be included!</p>	pcs	15			
31	Cable Verifier/Tester	<p>Test Connectors</p> <p>Cable Tests</p> <p>Tone Generator</p> <p>PoE Detection</p> <p>Ethernet Port Test</p> <p>Power Source</p> <p>Dimensions</p> <p>Weight</p> <p>Display</p> <p>Calibration</p> <p>Warranty</p>	<p>Twisted-pair: UTP, FTP, STP 8-pin modular jack accepts 8-pin modular</p> <p>(RJ45) and 4-pin modular (RJ11) plugs; Coax: F-connector for 75 Ω, 50 Ω, 93 Ω cables</p> <p>Length (400 m or 1500 ft. with resolution to 0.3 m or 1 ft.), wire map to</p> <p>TIA-568A/B standards, remote ID locators; displays results on one screen.</p> <p>Tone digital tone or/and analog tones</p> <p>Solicits and detects the presence of 802.3af compatible PoE (Power over Ethernet) devices</p> <p>Advertised speed of 802.3 Ethernet ports (10/100/1000)</p> <p>Battery type: alkaline or lithium batteries</p> <p>Battery life: 20 hours of typical use</p> <p>7.6 cm x 16.3 cm x 3.6 cm or closer sizes</p> <p>&lt;400 grams</p> <p>Monochrome liquid crystal display (LCD) with backlight.</p> <p>User-configurable NVP for twisted pair and coax; determines actual NVP with known length of cable</p> <p>One year</p>	pcs	15			
32	Electrical Tool Kit	Components/	<p>1 Digit Multimeter that can test volts AC/DC, Amps, and resistance.</p> <p>1 Heavy duty pliers: for bending, cutting, crimping and pulling wire</p> <p>1 Long Nose Pliers 6"</p> <p>1 Diagonal Pliers 6"</p> <p>1 Cable Cutters: cut large conductors and smaller cable</p> <p>1 Utility knives;</p> <p>1 Electric test pen,</p> <p>5 Inner hexa key driver,2-6mm,</p> <p>Two 6x100(+/-) screw driver,</p> <p>Two 3x100(+/-) screw driver,</p> <p>One Sn absorb desoldering pump,</p> <p>One Blowing /Air Slowing plastic case,</p> <p>One Sn solder wire, 1coil</p> <p>One Square handle with ball</p> <p>One Electrician Hammer</p>	Set	5			
33	Accessories		All accessories such as electrical equipments, fiber related componenets, UTP cable and related units, network equipment, installations and other relevant materials for successful deployment of the solution should be considered.	set	1			

34	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.					
		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.	Num	20			
		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 tube to be buried for fiber indicator. Bidders must estimate the quantity of material needed for successful implementation of inter-building network installation.	set	1			
35	Relevant Trainings	onsite training	Successful Bidders are required to arrange germane onsite trainings for the AdU-ICT staffs covering all concomitant expenses during & after installation & commissioning.	set	1			
<b>Total Price</b>								