

## **MINUTES OF PRE BID MEETING**

### **Tender for Supply, Delivery, Installation & Commissioning of Computer & Computer Related Equipment for Department of Computer Science, Faculty of Science and Technology and Technology**

**Tender No** : UWU/G/NCB/18/04

**Date & Time** : 30<sup>th</sup> May 2018 & 03.00 p.m.

**Venue** : Senate Board Room

The Following decisions were made at the Pre Bid Meeting

At the Pre Bids Meeting following clarification were made against the bidders' questions.

- a. Changes in specifications – Specifications of following items were changed at the Pre Bid Meeting( Refer annexure for new specification)

<b>Item No</b>	<b>Description</b>	<b>Reference Annexure</b>
05	CISCO ROUTER	Annexure 01

Chairman  
Procurement Committee,  
Uva Wellassa University

## Technical Specifications

Supply, Delivery, Installation & Commissioning of Laboratory Equipment for Department of Computer Science, Faculty of Science and Technology UWU/G/NCB/18/04			
No	Item	Specifications	Bidders' Response
1	<b>Computers (Core i7)</b>		
	<b>Processor</b>	Intel Core i7 - 7th Generation ( 3 GHz or Higher)	
	<b>Operating System</b>	DOS	
	<b>Cache Memory</b>	8MB L3 Cache (or higher)	
	<b>Physical Memory (RAM)</b>	16GB (or more) DDR4 memory	
	<b>Video Graphic Accelerator</b>	Nvidia(cuda-enabled) Dedicated 2GB with VGA out or relevant converters	
	<b>Display</b>	18.5 inch High Definition LED Display(1366x768)	
	<b>Audio</b>	Integrated Audio with Internal Speaker	
	<b>Keyboard</b>	USB Standard Keyboard	
	<b>Mouse</b>	USB Standard Mouse	
	<b>Hard Drive</b>	1TB 7200 rpm or higher	
	<b>Optical Drive</b>	Internal DVD+/-RW drive	
	<b>Ports and Slots</b>	USB 3.0 slot 2 or more , Headphone out, Microphone in	
	<b>Ethernet</b>	10/100/1000 Mbps Standard RJ45	
	<b>Software</b>	Genuine Microsoft office 2013 Professional	
		Vender certified Endpoint Virus protection software with 3 year license	
	<b>Others</b>	3 Years comprehensive warranty or more Vender Authorization Letter	
2	<b>UPS (650VA)</b>		
	<b>Input</b>		
	Voltage	140V~300V	
	Frequency	50~60Hz	
	<b>Output</b>		
	Voltage	220V~240V	
	Frequency	50Hz~60Hz	
	Transfer Time	4ms or less	
	<b>Battery</b>		
	Type	Sealed Lead Acid maintenance Free	
	Backup	10-20Minutes(or Higher)	
	<b>Other Features</b>		
	General Protection	Over current	
		Short-circuit	
		Over voltage	
		Under voltage	
	Battery Alarms	Audible and LED	
		Warranty 3 Year or more with Battery Vender Authorization Letter	

<b>3</b>	<b>Cisco SG200 Series switch</b>	
	Model :	SG200 Series
	Manufacturer:	CISCO
	Subtype :	Gigabit Ethernet
	Ports :	22 x 10/100/1000 + 2 x 10/100/1000 (PoE)
	Jumbo Frame Support :	9000 bytes
	Authentication Method :	RADIUS
	MAC Address Table Size :	8000 entries
	Status Indicators :	Port transmission speed, system, PoE, link/activity
	Encryption Algorithm :	MD5
	PoE Budget :	62 W
	<b>Power Device</b>	
	Type :	Internal power supply
	<b>Networking</b>	
	Subcategory :	Network hubs and switches
	Form Factor:	Desktop, rack-mountable
	Type :	Switch
	<b>Features</b>	
	BOOTP support, Broadcast Storm Control, SNTP support, Spanning Tree Protocol (STP) support, Syslog support, Trivial File Transfer Protocol (TFTP) support, Unicast Storm Control, VLAN support, Weighted Round Robin (WRR) queuing, fanless, layer 2 switching, port mirroring, DHCP support, power over Ethernet (PoE), DiffServ support, IGMP snooping, IPv6 support, Jumbo Frames support, MLD snooping, Multicast Storm Control, Quality of Service (QoS)	
	<b>Compliant Standards</b>	
	IEEE 802.1D, IEEE 802.1Q, IEEE 802.3x, IEEE 802.3z, IEEE 802.1p, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3af, IEEE 802.3u	
	Ports Qty :	24
	Manageable :	Yes
	Remote Management Protocol:	HTTP, RMON, TFTP
	<b>Miscellaneous</b>	
	Compliant Standards :	UL 60950, FCC Part 15 A, CSA 22.2
	Height (Rack Units) :	1 m
	Console Cable	6 feet Console cable with USB Support
	Others	Warranty 3 Years or more
	Vender Authorization Letter	
<b>4</b>	<b>Cisco Catalyst 2960 – 24TC switch</b>	
	Model :	Catalyst 2960G-24TC
	Type :	Switch
	Manufacturer :	Cisco
	Subtype :	Gigabit Ethernet
	Ports :	20 x 10/100/1000 + 4 x combo Gigabit SFP

4	Performance :	Switching capacity: 32 Gbps	
	Forwarding performance (64-byte packet size):	35.7 Mbps	
	Flash Memory :	32 MB flash	
	MAC Address Table Size :	8K entries	
	Authentication Method:	Secure Shell (SSH), RADIUS, TACACS+	
	Status Indicators:	Port transmission speed, port duplex mode, power, link OK, system, link/activity	
	Encryption Algorithm :	SSL	
	Nominal Voltage :	AC 230 V	
	Cabling Type :	Ethernet 1000Base-T, Ethernet 100Base-TX, Ethernet 10Base-T	
	Subcategory :	Network hubs and switches	
	Subtype:	Gigabit Ethernet	
	Form Factor:	rack-mountable	
	Connectivity Technology:	wired	
<b>Features:</b>			
ARP support, Access Control List (ACL) support, MAC Address Notification, Multicast Storm Control, Multiple Spanning Tree Protocol (MSTP) support, Port Aggregation Protocol (PAgP) support, Port Security, Quality of Service (QoS), Rapid Spanning Tree Protocol (RSTP) support, Remote Switch Port Analyzer (RSPAN), Syslog support, Unicast Storm Control, BOOTP support, VLAN support, auto-negotiation, auto-sensing per device, auto-uplink (auto MDI/MDI-X), dynamic IP address assignment, layer 2 switching, load balancing, Broadcast Storm Control, DHCP snooping, DiffServ support, Dynamic Trunking Protocol (DTP) support, IGMP snooping, IPv6 support, Link Aggregation Control Protocol (LACP)			
<b>Compliant Standards</b>			
IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ah, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.1ab (LLDP), IEEE 802.1p, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP)			
Manageable	Yes		
Switching Protocol:	Ethernet		
<b>Remote Management Protocol</b>			
HTTP, HTTPS, SSH, TFTP, Telnet, RMON 1, RMON 2, RMON 3, RMON 9, SNMP 1, SNMP 2, SNMP 2c, SNMP 3			
Communication Mode:	Full-duplex, half-duplex		
Interface Provided Qty:	24, 4		
Connector Type:	SFP (mini-GBIC)		
Console Cable	6 feet Console cable with USB Support		
Rack Mounting Kit:	required		
MTBF:	313828 sec		
Software Type:	Cisco LAN Base software		
Warrantee:	3 Years or more		
Vender Authorization Letter			

5	<b>CISCO ROUTER</b>	
	Manufacturer	Cisco
	Equipment Type	Router
	Model	CISCO ROUTER 2441
	DRAM	Minimum 384 Mb
	Compact Flash	Minimum 128 mb
	fixed USB 1.1 Ports	1
	Onboard LAN Ports	Minimum 2 * 10/100 Mbps
	Onboard AIM (internal)Slots	2
	Interface card Slots	Minimum 2 slots with 2* NIM
	WIF-2T cable	Required 2
	Minimum Cisco IOS Software Release	15T Compatible with Cisco 1800 Series router commands
	Rack Mounting	Yes
	Power Requirement	AC Input Voltage 240 V
	AC Input Frequency	50-60 Hz
	Integrated Hardware-Based Encryption	
	VPN hardware Acceleration (on console port)	
	Console Cable	6 feet Console cable with USB Support
	Auxiliary Port (up to 115.2 kbps)	
	Warranty	3 Years or above
	Vender Authorization Letter	
6	<b>CCTV Camera System</b>	
	The suppliers are required to submit specification for below option	
	○ Analog Camera with WDR lenses	
	○ 2.8 mm - 12 mm very focal lens or above	
	○ All cameras should comply with night vision with 0 lux, high quality image resolution is required	
	○ Capturing rate of more than 30 frames per second or above	
	○ Separate digital video recorder's should use for the each locations	
	○ Each DVR Should connect with university data network and real time remote monitoring capability and remote playback capability of each DVR's are required	
	○ At least two month data storage facility is required	
	● Selected bidders should demonstrate their product before evaluation process.	
	● Selected bidders are required provide details about implementation of previous large size CCTV installation projects to prove have more than three years' experience in the industry.	
	<b>Work Site Requirements and Conditions</b>	
	1. Installation & Configuration	
	a. The supplier must visit the site and do the required feasibility to identify above listed selected locations before submit the proposals.	
	b. Supplier must undertake to supply all other equipment's (DVR, hard disk, suitable display equipment's, power supply for cameras and wires, wall mounts, UPS, Lockable Rack)	
	c. The supplier shall be responsible for all configuration of the system.	
	d. Installation shall be co-ordinate with university technical staff.	
	e. Suppliers will be required to complete all electrical and data wiring.	

6	f. Vender certified products should be used for the solution and it is necessary to submit vender authenticating letter with the proposal.	
	The recorders must be setup according to the place proposed by the University	
	<b>Service and Support</b>	
	a. The supplier shall provide a time schedule or response time for service calls to the system.	
	b. The supplier submission shall include costs of service and support	
	c. The supplier shall provide the costs of any Maintenance Agreements.	
	The supplier should be able to rectify or replace the items as and when required within the agreed time.	
	<b>Guarantee/Warranty Period</b>	
	a. All CCTV cameras and other equipment's are to be guaranteed for a period of Three (03) years or more.	

  
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