

DETAILED SPECIFICATIONS

Project : **SUPPLY, DELIVERY AND INSTALLATION OF CAMPUS-WIDE INTERNET CONNECTIVITY**

Location : Cavite State University - Bacoor City Campus, Bacoor, Cavite

Item No.	Quantity	Unit	Item Description	Unit Cost	Total Cost
A. Access Points/Switch Supplies and Materials					
1	1	unit	<p>Core Switch</p> <p>Specifications: Cloud Managed Switch Layer 3 24 10/100/1000 with SFP+ ports 24 x 10/100/1000BASE-T Ethernet RJ45 auto-MDIX crossover 4 x SFP+ 10G uplink 2 x stacking ports 128 Gbps Switching Capacity 80 Gbps Stacking Bandwidth 95.24mpps Forwarding rate Jumbo frame support (9578 byte Ethernet frame) Secondary Power Supply supported 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping) Broadcast storm control Port mirroring 802.1ab Link Layer Discovery Protocol (LLDP) and CDP IGMP snooping for multicast filtering IEEE 802.1X RADIUS and MAB, hybrid authentication and RADIUS server testing Port security: Sticky MAC, MAC whitelisting DHCP snooping, detection and blocking, Dynamic ARP Inspection Static routing, OSFPv2 DHCP Relay, DHCP Server Virtual Stacking Remote cable testing, packet capture and client discovery Configuration templates for rapid, zero-touch provisioning and auditing of all sites Network Topology for automatic and interactive network mapping Operating temperature: -5°C to 50°C Humidity: 5 to 95% non-condensing One (1) Year Enterprise License Subscription</p> <p>Lifetime hardware warranty with advanced replacement included</p> <p>MANAGEMENT: Managed via the web with the cloud management platform. Integrated with Firewall Zero-touch remote provisioning (no staging needed) Automatic firmware upgrades with scheduling control</p>	172,715.00	172,715.00

			<p>Integrated multi-factor authentication for Dashboard management Role-based access control (RBAC) with granular device and configuration control Detailed historical per-port and per-client usage statistics SNMP and SYSLOG support Operating System, device, and hostname fingerprinting</p> <p>MONITORING AND REPORTING: Ping, traceroute, cable testing, and link failure detection with alerting Detailed historical per-port and per-client usage statistics Dynamic and interactive network discovery and topology Combined event and configuration change logs with instant search</p> <p>VENDOR QUALIFICATIONS:</p> <p>Bidder must have:</p> <ul style="list-style-type: none"> • A sales and technical office in the Philippines and is operating locally. • At least one Certified Network Associate • Submit a Helpdesk escalation procedure with flowchart and contact numbers. • Conduct a technical training. 		
2	6	units	<p>24 Port Gigabit PoE++ Smart Managed Switch Complete web interface for comprehensive switch management</p> <p>Specifications: 1000Base-T PoE Interface 24 Auto MDI/MDIX: Yes 10/100/1000BASE-T PoE ports 24 10/100/1000BASE-T/SFP Combo ports 2 Switch Capacity: 52 Gbps Max. Packet Forwarding Rate: 38.69 Mpps Power Input AC: 100-240V Link Aggregation Group Per Device 13 Max Port Per Link Aggregation Group 8 Port Mirroring: Yes Jumbo Frame: 9216Byte Dimension: 440x 290x 43 mm Weight: 4.26kg Operation Temperature: -10-55°C Storage Temperature: -20-70°C Maximum Power Consumption: 616.9 W (PoE on) &lt;br&gt;24.67 W (PoE off) Maximum Heat Dissipation: 1470.46 BTU/hr Acoustic: 53.7 dB(A) MTBF: 295,797 hours CPU Speed: 400MHz DRAM Size: 128MB DDR3 Flash Memory Size: 32MB Packet Buffer Size: 4.1MBytes Maximum PoE Budget: 518W PoE Budget: 518 W (30 W max. per PoE port for ports 1 to 20, 90 W max. for ports 21 to 24)</p>	40,000.00	240,000.00

3	1	unit	UPS (for Data Center) Specifications: • High density, double-conversion online power protection with scalable runtime • Main Input Voltage: 230V • Rated power in VA: 5000VA • NB of Power Socket Outlets: 6 IEC 60320 C13, 2 IEC Jumpers, 4 IEC 60320 C19 • Number of Rack Unit: 3U	150,000.00	150,000.00
4	1	unit	Data Rack Cabinet 42U W-600mm x D-1200mm Perforated	51,685.00	51,685.00
5	13	units	Access Point Wireless Wi-Fi Dual Band Specifications: Wi-Fi technology (802.11n)/Dual Band (2.4 GHz + 5 GHz) capability and speeds up to 600 Mbps*/IPv6 Support Network Standards: IEEE 802.11n, IEEE 802.11g, IEEE 802.11b Radio Frequency Bands: Concurrent Dual-Band 2.4 GHz and 5 GHz 802.1q VLAN: Yes, 802.1q-based VLAN Ports: 1 Gigabit Ethernet Port PoE: 802.3at LEDs: One system LED MIMO: 2x2 Antenna Type: Internal Antenna Gain: 1.8 dBi @ 2.4 GHz; 3.5 dBi @ 5 GHz; RF Transmit Power: 802.11b @ 11 Mbps: 21 dBm , 802.11g @ 54 Mbps: 20 dBm 802.11n @ HT20/HT40 MCS7/15: 19 dBm Radio Frequency Channels: 2.412 to 2.462 GHz; 11 channels, 5.180 to 5.240 GHz; 4 channels, 5.745 to 5.825 GHz; 5 channels Maximum Power Consumption: 17W Dimensions (LxWxH): 243.08 x 236.98 x 43.69 mm (9.57 x 9.33 x 1.72 in) Operating Temperature: 0° to 40°C (32° to 104°F) Storage Temperature: -20° to 70°C (-4° to 158°F) Number of VLANs Supported: 17, 1 management VLAN plus 16 VLANs for SSID Security Lock: Kensington lock slot Access Control: Yes, MAC based ACL with local or remote RADIUS server authentication	13,000.00	169,000.00
Subtotal					783,400.00
B. Structured Cabling Supplies and Materials					
Work Station Side Cat6					437,300.00
6	150	pcs	Cat 6 Information Outlet	420.00	63,000.00
7	15	pcs	Simplex Modular Faceplate - White	140.00	2,100.00
8	70	pcs	Duplex Modular Faceplate - White	210.00	14,700.00
9	35	pcs	Cat 6 4-pair UTP cable, 305m/roll, Gray	8,500.00	297,500.00
10	150	rolls	RJ45 Cat 6 Patchcord 3mtrs (Blue)	400.00	60,000.00
Equipment Room Side Cat6					149,710.00
11	7	units	CAT6-24 ports Patch Panel (Loaded with Information Outlet)	10,000.00	70,000.00

12	6	units	19" Cable Management Panel Horizontal 1.75"H x 19"W	1,000.00	6,000.00
13	150	rolls	RJ45 Cat 6 Patchcord 2mtrs.	270.00	40,500.00
14	2	sets	19" x 2ft. Closed Type Rack (Wall Mounted) in perforated front doors, detachable side metal side panels c/w exhaust fan & vertical power strip in 3 prongs AC Male plug (H=2ft x W=660mm x D=600mm)	16,605.00	33,210.00
15	Conduits, Boxes, fittings & Supports Aluminum Split Tube 1 3/4"x4"x20 Aluminum Threshold PVC PIPE, 1" PVC Adapter w/ nut and bushing 1" PVC PIPE, 3/4" PVC Adapter w/ nut and bushing 3/4" PVC/Plastic Moulding (White) 1" x 8' PVC/Plastic Moulding (White) 3/4 " x 8' PVC flexible hose 3/4" Pull box 6" x 6" x 4" Square box w/ cover Utility box Malleable C-clamps 1" Malleable C-clamps 3/4" Anchor bolt 3/8" Nut & washer 3/8"			87,685.00	87,685.00
16	Miscellaneous & Consumable Materials (for SCS) Masking Tape Electrical Tape GI Wire # 16 Drill Bit 1/4" Drill Bit 3/8" SDS Bit 3/8" Hacksaw Blade Tox Drill Bit #8 Tox with Screw #8 (100pcs/bx) Tie Wrap # 12 Holesaw 3/4" Holesaw 1" PVC cement/solvent, 400cc Paint, 1 quart			6,915.00	6,915.00
Subtotal					681,600.00
C. Labor and Others					
46	1	lot	<ul style="list-style-type: none"> • Mobilization / Demobilization / Accommodation / PPE • Labor for Roughing - ins Cable pulling terminations, testing and commissioning (7 Manpower x 15 Days) • Restoration Works (for ceiling opening and others) • Engineering, Documentation for hand over as built plan 	135,000.00	135,000.00
Subtotal					135,000.00
TOTAL					1,600,000.00

Prepared by:


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Certified Correct:



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Chair, TWG - Computer & Office Equipment