

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	8	units	<p>24 Port Gigabit Managed Switch, Complete web interface for comprehensive switch management</p> <p>Specifications: Layer 2 Support, Layer 3 Support Supported Protocols: Head-of-Line (HOL), Blocking, IGMP Snooping, IPv4, IPv6, Link Aggregation, MAC Filtering, Port Mirroring RADIUS Queuing: Strict Priority, Weighted Round Robin (WRR) Jumbo Frames Support: 9000 Bytes MAC Address Table Size: 16K Multicast Groups: 2000 VLAN IDs: 4094 Security Features: DoS Attack Prevention, RADIUS Authentication, Storm Control Supported IEEE Standards: 802.1ab, 802.1d, 802.1q/p, 802.1s, 802.1w, 802.1x, 802.3, 802.3ab, 802.3ad, 802.3an, 802.3az, 802.3u, 802.3x, 802.3z Switching Bandwidth: 480 Gb/s Flash Memory: 256 MB Processor: 800 MHz ARM Memory: 512 MB AC Input Power: 100 to 240 VAC, 50 / 60 Hz Rack Form Factor: 1 RU Dimensions: 17.3 x 13.8 x 1.7" / 440 x 350 x 44 mm</p>	40,000.00	320,000.00
2	1	unit	<p>UPS (for Data Center)</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 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
3	4	units	<p>UPS (for Computer Laboratory)</p> <ul style="list-style-type: none"> • Main Input Voltage: 230V • Rated power in VA: 2000VA • Capacity: 1,200 watts 	11,500.00	46,000.00
4	15	units	<p>Access Point Wireless Wi-Fi Dual Band</p> <p>Specifications: Wi-Fi technology (802.11n)/Dual Band (2.4</p>	20,000.00	300,000.00

			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		
A Subtotal					816,000.00
B. Structured Cabling Supplies and Materials					
B.1 Work Station Side Cat6					402,300.00
5	150	pcs	Cat 6 Information Outlet		
6	15	pcs	Simplex Modular Faceplate - White		
7	70	pcs	Duplex Modular Faceplate - White		
8	35	rolls	Cat 6 4-pair UTP cable, 305m/roll, black		
9	150	rolls	RJ45 Cat 6 Patchcord 3mtrs (Blue)		
B.2 Equipment Room Side Cat6					150,500.00
10	8	units	CAT6-24 ports Patch Panel (Loaded with Information Outlet)		
11	8	units	19" Cable Management Panel Horizontal 1.75"H x 19"W		
12	150	rolls	RJ45 Cat 6 Patchcord 2mtrs.		
13	5	units	Network Cabinet Box - 9U Data Cabinet wall mounted - Dimension: 550mm (l) x 450mm (w) x 400mm (h)		
B.3 Conduits, Boxes, fittings & Supports					96,200.00
14			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"		
15			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		
				B Subtotal	649,000.00
C. Labor and Others					
16	1	lot	<ul style="list-style-type: none"> • Mobilization / Demobilization / • 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
				C Subtotal	135,000.00
TOTAL					1,600,000.00

Prepared by:


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Noted by


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Campus Administrator/End-User

Certified Correct:


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