



Republic of the Philippines  
**Department of Education**  
 REGION VIII  
 SCHOOLS DIVISION OF BILIRAN

<b>TECHNICAL SPECIFICATIONS</b>				
Stock/ Property No.	Unit	Item Description	Quantity	STATEMENT OF COMPLIANCE
		<b>Provision of Information Communication Technology Supplies/ Devices/ Equipment/Work/ Services for Network Infrastructure</b>		
		<b>Structured Cabling Lot 1</b>		
	UNIT	DATA CABINET 6UB	3	
	UNIT	DATA CABINET 15UB	1	
	UNIT	NETWORK GIGABIT SWITCH (28 PORT)	2	
	UNIT	NETWORK GIGABIT SWITCH (8 PORT)	1	
	PCS	PATCH CORD 2M CAT6	100	
	PCS	CABLE MANAGER HORIZONTAL	3	
	PCS	MODULAR BOX SURFACE RJ45	100	
	ROOL	UTP CAT6 SOLID	10	
	PCS	PATCH PANEL 24 PORTS	2	
	UNIT	LOAD BALANCER	1	
	UNIT	PABX SYSTEM - ANALOUGE WITH 24 EXTENSION	1	
	UNIT	TELEPHONE WITH CALLER ID	15	
	UNIT	CEILING MOUNT ROUTER	8	
	LOT	JUNCTION, PLASTIC BOSX, MOLDINGS, JUNCTIONSBOX, PVC PIPE.RG45 ETC	1	
	LOT	LABOR TESTING, LABELLING AND COMISSIONING	1	



**I. SCOPE OF WORKS**

**1.1** The CONTRACTOR shall submit a detailed workplan for the entire project within five (5) working days from receipt of Purchase Order, subject to the approval of the DepEd Biliran. The workplan shall include the following:

- 1.1.1** Equipment delivery schedule of the active and passive components
- 1.1.2** Equipment installation schedule
- 1.1.3** Testing, acceptance and commissioning schedule of Data Cable Runs and Equipment.

**1.2 STRUCTURED CABLING SYSTEM**

**1.2.1** The CONTRACTOR shall supply, install, and make operational one lot ISO 11801-compliant structured Cabling system for sixty five (65) nodes with the following specifications:

**1.2.1.1** The manufacturers of their offered Structured Cabling System products are certified with any of the various internationally recognized, industry-related certifications authority (UL-ISO Standard).

**1.2.1.2** The distribution/data cabinet shall be able to accommodate the required patch panels, cable managers, and network switches. Otherwise, the contractor shall provide additional distribution/data cabinet/s.

**1.2.1.3** The equipment cabinets shall have provisions for adequate air ventilation. They shall be provided with ventilation fans connected to a PDU with on off switch.

**1.2.1.4** The cablings shall be labeled and color-coded in accordance with ANSI/TIA/EIA-606-A (Administration Standard for the Telecommunications Infrastructure of Commercial Buildings).

**1.2.1.5** The patch cords from the patch panel to the network switch and from the data terminal outlet to the workstation, access point, or router shall pass Category 6 or 6E Specifications and factory crimped.

**1.2.1.6** The Structured Data Cabling shall be installed as specified:

2.2.1.7.1 Installation of Cat 6 or 6e UTP for LAN requirement;

2.2.1.7.2 Supply and installation of Cat 6 or 6e information outlet to personal computers shall be installed with either 1-gang or 2-gang convenience outlet.

2.2.1.7.3 Complete works for conduit installation

including support and hangers;

2.2.1.7.4 Supply and installation of required distribution or data cabinet, Cat 6 or 6e patch panels, cable managers, and network switches.

2.2.1.7.5 End to end testing of horizontal and backbone cabling;



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			Sub-Total	<b>499,640.00</b>
		<b>NETWORK INFRASTRUCTURE (ACTIVE COMPONENT) Lot 2</b>		
	Unit	<b>Network Server</b>	2	
		<ul style="list-style-type: none"> <li>• 3JRWN</li> <li>"Dell™ PowerEdge® T40"</li> <li>Processor Intel Xeon E-2224G 3.5GHz, 8M cache, 4C/4T, turbo (71W) , TPM</li> <li>Cache Memory 8M Cache</li> <li>Memory 8GB DDR4 UDIMM, 2666 MT/s, ECC (4 DIMM slot)</li> <li>Network Controller Intel I219-LM Gigabit Ethernet LAN 10/100/1000 1-port</li> <li>• Astech USB keyboard</li> <li>• USB Mouse</li> <li>19.5 Monitor</li> </ul>		
	Unit	<b>4bays NAS Storage Server chassis IPFS Miner (Disk Included)</b> <ul style="list-style-type: none"> <li>• 2.0 GHz Intel Celeron J4125 Quad-Core</li> <li>• 4GB DDR4 RAM</li> <li>• 2 x Gigabit Ethernet Ports</li> <li>• 2 x USB 3.0 Type-A   1 x eSATA</li> <li>• RAID 0, 1, 5, 6, 10, Hybrid, Basic, JBOD</li> <li>• Sequential Reads up to 225.99 MB/s</li> <li>• Sequential Writes up to 225.9 MB/s</li> </ul>	2	
	Unit	<b>Network Storage</b> (Hard Disk Drives 1TB) (external)	10	
	Unit	<b>Uninterruptible Power Supply</b> (2000VA/ 1400watts, 230VAC) SECURE, Uninterruptible Power Supply, 6x OUTLET SUPPORTED, 2x BYPASS	22	



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	Unit	<b>Door Access System (Biometrics, Face Recognition, RFID) Bundled with QR Scanner</b> - Multi-Biometric T&A and Access Control Terminal function: ID, display 4.3-Inch Touch Screen, face capacity 3,000, fingerprint capacity 4,000, ID Card capacity 10,000 ( Optional ), communication TCP/IP, RS232/485, USB Host, standard functions Automatic Status Switch, Self-Service Query, Work Code with 2000 mAH Backup Battery optional functions: Mifare Cards, Wi-Fi, 3G, ADMS, package w/ QR Scanner( 48 MP, 8GB, Dual SIM)	1	
			<b>Sub-Total</b>	
				<b>400,342.00</b>
		<b>Improvement of Closed- Circuit Television System Lot 3</b>		
	Unit	10 METERS HDMI CABLE HIGH SPEED 2.1	4	
	Unit	HDMI Amplifier Support HDMI 2.0 Repeater Extender Booster Adapter over UTP 100 METERS	1	
	Unit	21.5" LCD/LED MONITOR HDMI PORT	1	
	Lot	WIRING OF HDMI CABLE TO GUARDHOUSE FROM CONTROL ROOM	1	
	Lot	CONFIGURATION OF CCTV	1	
			<b>Sub-Total</b>	
				<b>30,000.00</b>
		*see attached Terms & Conditions		
			<b>Over-All Total</b>	
				<b>929, 982.00</b>

