LOT F - Emergency Operation; Monitoring, Recording & Paging System, Device and Equipment

NO.	ITEM DESCRIPTION and SPECIFICATION	QTY.	UNIT	TOTAL PRICE	REFERENCE PHOTO
1	**EMERGENCY MONITORING DEVICE & EQUIPMENT**		SET	5,323,458.80	
	1.1. CCTV Camera 4mp 4.8 - 120 mm lens, 25x optical zoom, 16× digital zoom, max. 150m IR distance, WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional Exposure, Regional Focus, h.265+/h.265 video compression, 24VAC & Hi-PoE, network PTZ camera	27			
	1.2. 32 Channel Network Video Recorder Value Plug and Play- 32ch 8mp, 2 HDD slot max. of 10TB, H.265+, 1U NVR	2			
	1.3. 16 Channel Network Video Recorder Value Plug and Play - 16ch 8mp, 1 HDD slot max of 6TB, H.265 Pro+, 1U NVR	11			
	1.4. Hard Disk Drive at least 6-8TB Hard Drive 5400 RPM SATA 6Gb/s 64MB Cache 3.5 Inch	16			
	1.5. Internet Router ARM 32 bit Architecture, Quad Core Cortex A15 1.9GHz CPU, 1GB RAM, 512MB Storage, 10GE Uplink + 1 SFP+ Slot Router	1			
	1.6. Internet Router 5-Port Gigabit Desktop Switch with 4-Port PoE+, PoE Switch, CCTV Switch	11			
	1.7. 16 Channel POE Switch 16-Port Gigabit Desktop/Rackmount Switch 16 10/100/1000Mbps ports	1			
	1.8. 4P Industrial Gigabit PoE Switch + (SC-AB) Industrial Gigabit PoE Switch + (SC-AB) 4 Ports Gigabit PoE, 15.4W /IEEE802.3at/af, Gigabit SC AB Ports (20KM), Switching Capacity : 1Gbps, Strong Anti-Surge 4KV/2KV, Metal Housing, Din Mount, Free 52V 2A Adaptor	20			
	1.9. Outdoor Cabinet metal box, stainless/rust-proof at least 400*300*180, outdoor box	27			
	1.10. LED Monitor, branded at least 27-INCH LED Backlit LCD Monitor 1920x1080 Panel Type 3-side Near Edgeless	9			
	1.11. Smart Board Interactive TV with movable stand, branded *at least 98in, 4K HD, wifi ready, touchscreen, android, licensed windows, MS Office Home&Student License, CPU, with cooling and emergency power system	1			
	1.12. PC Desktop/Server, branded - Intel i7 12th gen, B660 w/ m.2 slot, 32GB Ram, GTX 1650 4GB 128Bit, 1TB SSD M.2 w/ 6TB 3.5" Sata, 550Watts Tru-rated 24" 144Hz IPS, Keyboard Mouse, Windows 11 Home DSP OEI Licensed, MS Office Home&Student License - at least 27" (1920 X 1080) MONITOR	2			
	1.13. Laptop, High end, 15M B12UE-032PH *NVIDIA GeForce RTX 3060 Laptop GPU 6GB GDDR6 *Licensed Windows 11 *MS Office Home&Student License *Intel Core i7-1280P CPU *16GB (8GB*2) 3200Mhz DDR4 RAM *1TB NVMe PCIe SSD *15.6in FHD 240Hz-100% Srgb Thin Bezel Panel *Spectrum Backlit Keyboard *With Essential Backpack	6			
	1.14. Drone Camera 3-Axis Gimbal with Dual Cameras At least 20MP 5.1K Wide-Angle 4/3 CMOS Hasselblad at least 12MP Telephoto with 28x Hybrid Zoom at least at 45 Minutes of Flight Time at least at 9.3-Mile Transmission Range approx. 360° Obstacle Avoidance System approx. 10-Bit D-Log Color Profile & HNCS at least 1080p60 Live View Video Stream at least 8GB of Storage Space at least RC-N1 OcuSync 2.0 Remote Included	13			

1.15. Cabinet Rack Wallmount Rack, approx. 12U Depth 600mm/2ft Tempered Door w/ Key, Detachable Sides, Sets of DynaBolts, 1pc 220V Exhaust Fan	2			
1.16. Wallmount Rack Wallmount Rack approx. 9U Depth 600mm/1.5ft Tempered Door w/ Key, Detachable Sides, Sets of DynaBolts, 1pc 220V Exhaust Fan	11			
1.17. Secure UPS 3000VA Uninterruptible Power Supply Input Voltage: 220/230/240V 1 Phase 50Hz/60Hz+Hz, Output Socket: 6 (5 UPS + 1BYPASS), Transfer Time: Typical 2-6ms, Waveform (Batt. Mode) Simulated Sine Wave, BATTERY Type: Sealed, maintenance-free lead acid, Typical Recharge Time: 9-10 hours Protection: Automatic self-test & discharge. protection, replace battery indicator,	20			
1.18. Optical Fiber Drop Cable approx. 2KM 4Core Outdoor Optical Fiber Drop Cable Core: 4 Core Cable length: 2km/2000 meters Color: Pure black Reinforcement material: Reinforced phosphating steel wire	3			
1.19. Fiber ODF : 12P w/ SC Coupler * 12P w/ SC Coupler * 19" Rackmount /Tray Type * SC/UPC Coupler Loaded * Depth: 300mm * 1.2mm / Powder Coated * No Pigtail Included	2			
1.20. Network Cable Cat5e can support network operating speeds of 10Mbps, 100Mbps or 1000Mbps. The gigabit rates are the maximum speed for Cat5e cable	4			
1.21. SC Fast Connector (SC/UPC) Fiber Connector SC Fast Connector (SC/UPC)	50			
1.22. UTP Connector RJ45 Passthrough (100pcs)	3			
1.23. Installation and Integration of CCTV Sets, Led Monitors, Laptops, Servers and Drone System *27 CCTV sets shall be installed in a fixed location identified by Cavite State University *approx. 1-2weeks Installation and Integration Training (Offsite and Onsite) **1.24. Warranty, Suppport and Calibration** *Warranty and maintenance including replacements of all parts *Replacements should be delivered within 7 Calendar days *Equipment Operations & Maintenance Training to be provided *Offsite and Onsite Operations & Maintenance support to be provided *Warranty, Calibration and Support for 1 year	1			
2 **PAGING, ALERTING AND RECORDING DEVICE & EQUIPMENT**		SET	₱2,420,580.00	
2.1. Condenser Mic w/ Chime for Paging MIC OUTPUT V: 600mV±10 or 20mV±10%(unbalanced), CHIME OUTPUT V: 600mV±10%or 20mV±10%, CHIME UP: 1-3-5-i / CHIME DOWN: i-5-3-1, FREQUENCY RANGE: 100Hz-15KHz, Distortion MIC: ≤1%	1			
2.2. Outdoor Modular Electronic Sirens w/ IP Audio Center Software, PA and Light Alarm Emergency Warning *modular electronic siren for early warning and emergency notification system *at least an audible range of up to 2.5km *each siren can be fitted with up to 6 amplifiers of approx. up to 4800 watts *should be integratable with a wide-range of control system *with at least 4 horns and more capacity *with public address and light alarm emergency warning capable for large public address and general alarm system *preferrably can work within LAN network, Fiber Links and Wireless PTP/PTMP *preferable features: Grouping / Zoning, Paging, Music Playback, Schedule recorded Playback, One Button Alarm to all speakers	2			
2.3. Motor Driven Air Raid Warning Siren ● Voltage: AC 230V, 50/60HZ ● Voltage withstand: 500 VAC ● Insulation impedance: 100 mΩ (at 500 VDC). ● Loud Volume :160DB ● Heavy duty construction and 100%copper motor ● Body Material:Aluminum and Steel ● Weight: Approx. 6KG	1			

Item	Qty	Image
2.4. IP Phone 2 SIP lines, HD voice, 3-way conference, 2.4" Color Screen 10/100 Mbps Ethernet, PoE enabled, Support call center headset (RJ9 port), Electronic Hook Switch (EHS) support for wireless headsets, Support LDAP, XML phonebook, Desktop / Wall-mount installation, with Power Adapter	2	
2.5.Power Socket 8 Socket PDU: Pro Series, Hard PVC Housing, 1.5M /US Plug, 1RU Rackmount	13	

2.6. Earthquake Recording Instrument
a.) accelerograph: Seismic qualified as tested by recognized international testing laboratory
b.) sensors must be capable/equipped of: Stores seismic activity information as gathered by the attached accelerometer. Equipped with three fault detection:
    1) recording activity checker
    2) internet connectivity
    3) accelerograph status monitoring
Provides real-time alarm information (either audio, visual or both) during an earthquake event; Equipped with a buzzer and three rotary warning lights which activates during an earthquake event.; Alerts during seismic activities are also available on the portal.; Equipped with internal battery back-up power to ensure continuous operation during a power fluctuation.
c.) Minimum design life: at least 10 years and have been tested and certified to have a 40,000-hour (minimum) mean time between failures
d.) Minimum of 3 components (vertical, longitudinal, and transverse)
e.) Natural Frequency: approx. above 50Hz
f.) Damping approximately 60-70 percent critical
g.) Sensitivity: User selectable (± 2g, 4g, 8g) (Default: approx. 2g)
h.) Bandwidth: User selectable (DC to 1000Hz)
i.) recording: Sampling Frequency: User selectable (4, 8, 16, 31, 62.5, 125, 250, 500, 1000, 2000, 4000 Hz); Time: From at least 20 seconds before the ground shaking begins until 30 seconds after the last triggering level motion; Media: Flash Memory Card of at least 32 GB (upgradable); Continuous Recording: capable of continuous recording; AD Converter: approx. 20 or 32 bits
j.) power: Battery maintained by charger
k.) communication: Ethernet: 10 base-T or 100 base-TX: Protocol: TCP/IP
	1	

2.7. PC Desktop/Server, High end *Intel i9 12th gen, B660 w/ m.2 slot, 32GB Ram, GTX 1650 4GB 128Bit, 1TB SSD M.2 w/ 2TB 3.5" Sata, 550Watts Tru-rated 24" 144Hz IPS, 27" Monitor, Keyboard Mouse, 650VA UPS w/ surge protector *with inclusions as follows: -Windows 11 Home DSP OEI Licensed, -MS Office Home&Student License, at least 27" monitor -with software subscription to: 1. Adobe Premiere Pro; 2. Open Broadcaster Software (OBS); 3. Audacity; 4. StreamYard -with computer table and chair (preferrably modular)	1	
2.8 Laptop, High end *15.6" QHD IPS 165Hz Intel Core i9-12900H (14cores), RTX 3060, 6GB DDR6, 16GB DDR5 RAM, 512GB NVME PCIE SSD, MS Office Home&Student License	2	
2.9. Sound System Set *Sound Mixer** with USB audio interface, approx. 10-16 inputs**,** with cubase AI recordings produced software, high power operational amplifier, preferrably with built-in 24 bit digital effects processor, preferrably XLR-type, preferrably with stereo playback inputs and record outputs, preferrably LED output metering, with Headphone/audio outputs, with complete audio/video accesories *Audio (input/output) set and accessorie**s, with high end wireless lavalier microphone set of 3, USB microphone, headphone, wireless microphones	1	
2.10. Lighting set *LED Ring Light at least 18inch, 3 colors adjustable, Color Temperature: approx. 3200-5500K, OD(outer diameter): at least 45CM, inner diameter: at least 32CM, Lamp bead: at least 416 lights,Interface: 1/4 universal screw hole, Material: aluminum alloy + pc *LED Video Light (godox SL60IIBi), preferrably 60w bi-color light, with AC Power, Color Temperature at approx. 5500k, preferrably dimmable from 10% to 100% brightness, with lamp cover, power cord, reflector, remote control, with 2-10ft adjustable stand *Softbox with Grid Bowen Mount, Size: approx. 35x160cm or 14x62 inch, Aluminum Speedring Adapter, Rectangular Size, Strip Box, with approx. 2-10ft adjustable stand	2	
2.11 Camera: DSLR (D850) *supports EOS Webcam Utility, connected to Computer via USB with support to various models, with accessories Screen: at least 3.2in tilting touchscreen, 2,359,000 dots, Sensor: preferrably Full frame, Megapixels: approx. 45.7MP, Lens mount: FX, Viewfinder: preferrably Pentaprism, Max burst speed: at least 7fps, Max video resolution: at least 4K	1	

1.12. Installation and Integration of modular siren, eathquake recording instrument, paging device, and servers *approx. 1-2weeks Installation and Integration Training (Offsite and Onsite) **1.13. Warranty, Suppport and Calibration** *Warranty and maintenance including replacements of all parts *Replacements should be delivered within 7 Calendar days *Equipment Operations & Maintenance Training to be provided *Offsite and Onsite Operations & Maintenance support to be provided *Warranty, Calibration and Support for 3 years	1			
		TOTAL	7,744,038.80	