

TECHNICAL SPECIFICATIONS

Item	Specification	Statement of Compliance
Lot 1	SUPPLY AND INSTALLATION OF CCTV PROJECT FOR UP MINDANAO	
1	<p>HYBRID NETWORK VIDEO RECORDER At least 4K HDMI Video Output & 16MP Decoding Capacity: At least 8-ports PoE+, PoE Budget: 113 W At least 8-Channel Simultaneous Playback. Replay the feed from up to 8 cameras simultaneously, increase replay speed, and find events in the recorded video. At least H.265+ At least Two-Way Audio support At least ONVIF Compatibility At least support 24/7 Continuous Recording At least support up to 10 TB storage At least support Remote Monitoring: Should have a dedicated app, web UI, and Security Manager/VMS which enable remote monitoring, providing ease and convenience. At least 1 HDMI and 1 VGA Interface: Supports independent video output. At least Plug & Play: Allows new and unused IP Cameras to be added automatically to the new NVR and activated instantly, making installation faster. The Video Management Software Clients should support Microsoft Windows, MAC, IOS, and Android for remote management Should support the existing Bosch DIVAR IP all-in-one 7000 3U bundled with Video Management Software and should support Network Attached Storage (NAS). Should be the same brand with the new CCTV cameras to be supplied. At least Remote Monitoring At least 80 Mbps incoming bandwidth At least 60 Mbps outgoing bandwidth At least HDMI and VGA Video Outputs At least 3-year Warranty.</p>	
2	<p>HYBRID NETWORK VIDEO RECORDER At least 4K HDMI Video Output & 16MP Decoding Capacity: At least 16-ports PoE+, PoE Budget: 140 W At least 16-Channel Simultaneous Playback. Replay the feed from up to 8 cameras simultaneously, increase replay speed, and find events in the video schedule. At least H.265+ At least Two-Way Audio support At least ONVIF Compatibility At least support 24/7 Continuous Recording At least support up to 24 TB storage At least support Remote Monitoring: Should have a dedicated app, web UI, and Security Manager/VMS which enable remote monitoring, providing ease and convenience. At least 1 HDMI and 1 VGA Interface: Supports</p>	

	<p>independent video output. At least include Perpetual license. Scope of Work Supply, Installation, and Configuration for the Network Recorder/s/Network Video Recorder/s Supply, Installation, and Configuration of the Video Management Software for the NVR Supply, Installation, and Configuration of the Video Management Software Clients for the workstations (at least 5 clients) The Video Management Software Clients should support Microsoft Windows, MAC, IOS, and Android for remote management Should support the existing Bosch DIVAR IP all-in-one 7000 3U bundled with Video Management Software and should support Network Attached Storage (NAS) Integrate existing 8 IP Cameras in CARIM 2 to the Hybrid Network Video Recorder Should be the same brand with the new CCTV cameras to be supplied. At least Remote Monitoring At least 80 Mbps incoming bandwidth At least 60 Mbps outgoing bandwidth At least HDMI and VGA Video Outputs At least 3-year Warranty</p>	
3	6TB 256MB Cache 3.5-inch SATA 6Gb/s Internal HDD for NVR	
4	10TB 256MB Cache 3.5-inch SATA 6Gb/s Internal HDD	
5	<p>2MP Outdoor Full-Color Bullet Network Camera SPEC H.265+/H.265/H.264+/H.264, 1/3" Progressive Scan CMOS, Color/0.005 Lux@F1.6, 0 Lux with IR/White Light, 25fps/30fps (2560x1440,2304x1296, 2048x1280,1920x1080), PoE/12V DC, 2.8/4/6mm Fixed Lens, Built-In Microphone, Speaker, micro-SD Slot, IP66 FEATURE: Full-Color and IR Night Vision (Up to 30 m), Active Defense, Two-Way Audio, On-Board Storage, Smart Detection (Human &Vehicle Classification) (Motion Detection, Area Intrusion Detection, Line-Crossing Detection, Camera Tampering Detection, Abandoned Object Detection, Object Removal Detection, Area Entrance Detection</p>	
6	<p>4MP Full-Color DOME(TURRET) Network Camera SPEC: H.265+/H.265/H.264+/H.264, 1/3" Progressive Scan CMOS, Color/0.005 Lux@F1.6, 0 Lux with IR/White Light, 25fps/30fps (2560x1440,2304x1296, 2048x1280, 1920x1080), PoE/12V DC, 2.8/4 mm Fixed Lens, Built-In Microphone, micro-SD Slot, IK10, IP67. FEATURE: Full-color and IR Night Vision (Up to 30 m), Smart Detection (Human &Vehicle Classification) (Motion Detection, Area Intrusion Detection, Line-Crossing Detection, Camera Tampering Detection, Abandoned Object Detection, Object Removal Detection, Area Entrance Detection, Area Exiting Detection</p>	

7	<p>4MP Pan/Tilt Network Camera SPEC: H.265+/H.265/H.264+/H.264, 1/1.8" Progressive Scan CMOS, Color/0.0005 Lux@F1.0, 0 Lux with White Light, 25fps/30fps (2688x1520,2304x1296, 2048x1280, 1920x1080), PoE/12V DC, 4 mm Fixed Lens, Built-In Microphone, Speaker, micro-SD Slot, IP66 FEATURE: Color Pro Night Vision (Up to 30 m), AI Pro (Face Capture, People & Vehicle Analytics), Customized Patrol, Automatic Tracking, Active Defense, Two-Way Audio, On-Board Storage, Smart Detection (Human & Vehicle Classification) (Motion Detection, Area Intrusion Detection, Line-Crossing Detection, Camera Tampering Detection, Abandoned Object Detection, Object Removal Detection, Area Entrance Detection)</p>	
8	<p>Gigabit Single Mode Fiber to Ethernet Media Converter A for long distance Camera At least Dual SC Fiber, 1000Base-LX to 10/100/1000Base-Tx Gigabit SMF Fiber SC to Copper RJ45 Ethernet Converter, UL Certified, up to 2km, 1550 nm TX, 1310 nm RX</p>	
9	<p>Gigabit Single Mode Fiber to Ethernet Media Converter B for long distance Cameras At least Dual SC Fiber, 1000Base-LX to 10/100/1000Base-Tx Gigabit SMF Fiber SC to Copper RJ45 Ethernet Converter, UL Certified, up to 2km, 1310 nm TX</p>	
10	<p>48V Passive PoE Injector Adapter PORT: 1× Gigabit PoE Port, 1× Gigabit Non-PoE Port SPEC: Data and Power Carried over The Same Cable At least 48V 18W Passive PoE Adapter</p>	
11	<p>2 KM MINI FIGURE 8 (4 CORE Fiber Cable)</p>	
12	<p>Cat 6 Outdoor UTP Cable Pure Copper - 305 meters per roll • Category 6 U/UTP Installation Cable, Outdoor, Gel Filled, Oxygen free copper (99.97% purity), Support PoE long-distance transmission, Black Customized MDPE outer sheath; meets ANSI/TIA 568-C.2 flame retardant class certified.</p>	
13	<p>S-Clamp Tension Holder</p>	
14	<p>CCTV Stainless Box 400MM*300MM*180MM 0.4mm Thickness</p>	
15	<p>Electrical Drop Cable #16</p>	
16	<p>Safety Circuit Breaker 15A</p>	
17	<p>THHN #16 Electrical Wire</p>	
18	<p>150 x 150 x 70mm Waterproof Box</p>	
19	<p>Consumables [screws, clamps, hose clamps, sealants, tapes (electrical, rubber), cable ties, guy wire, RJ45, etc.</p>	
20	<p>Monitor 27" with 99% sRGB & 1.07B colors</p>	

	<p>at least 4K UHD (2560 x 1440) at 60 Hz IPS with 350cd/m² brightness 3W integrated stereo speakers Height, pivot (rotation), swivel, tilt 2 x HDMI, USB-C with DisplayPort 1.2 mode & Power Delivery up to 65W, Audio line-out</p>	
21	<p>Desktop PC Motherboard: At least Intel H610 Chipset Motherboard Processor: At least Intel Core i5-12400F Processor 18M Cache, up to 4.40 GHz; 6 Cores 12Threads (Discrete Graphics Required) Graphics: At least 8GB RTX 4060 (At least DisplayPort x 3, At least HDMI x 1) System Memory: At least 16GB DDR4 3200MHz System Memory M.2 SSD Storage: At least 1TB M.2 NVME SSD Drive Chassis: At least Mid Tower Form Factor (2 Front USB 3.0, 1Type C Port) Power Supply: At least 750 Watts 80 Plus High Efficiency PowerSupply. Operating System: Microsoft Windows 11 Professional At least UPS AVR 650 Watts / 1.2kVA At least with the Keyboard & Mouse Bundle Mouse Pad</p>	
22	<p>Cleaning of the following existing cameras: <ul style="list-style-type: none"> ● BOSCH AUTODOME IP Dynamic 7000 HD with Camera Metal Post - 5 units ● BOSCH DINION IP Bullet 5000 HD - 15 units ● BOSCH FLEXIDOME IP indoor 5000 HD- 44 units </p>	
23	<p>Supply, Installation, configuration, and testing of the Video Management System (VMS) -both existing and new cameras should be integrated into the Video Management System</p>	
24	<p>Installation, termination, activation, configuration, supervision, documentation.</p>	
25	<p>Knowledge Transfer and Training</p>	