



March 16, 2022

MEMORANDUM

FOR : The Regional Executive Director

DENR MIMAROPA Region

THRU: The Assistant Regional Director for Management Services

FROM: The OIC – PENR Officer

SUBJECT: REQUEST FOR FUNDS FOR IMPROVEMENT AND

MAINTENANCE OF THE DENR-PENRO MARINDUQUE CENTRALIZED CLOSED-CIRCUIT TELEVISION

(CCTV) SYSTEM

The existing centralized Closed-Circuit Television (CCTV) System to facilitate the effective and efficient monitoring and recording of events inside and outside the Office premises of the DENR-PENRO Marinduque was fully operational since 2018.

As of to date, there are thirty four (34) CCTV cameras installed: sixteen (16) outdoor cameras and eighteen (18) indoor cameras, one (1) 18-channel DVR and one (1) 16-channel NVR requiring frequent improvement, repair and maintenance in order to ensure that all are properly working and in good state. Likewise, replacement of two (2) DVR/NVR and one (1) CCTV Power Supply Unit (PSU) and procurement of large capacity and reliable storage are deemed necessary to avoid recurrent malfunctions and ensure adequate storage of recorded CCTV footages.

Funds for the safety and security system equipment was proposed in the submitted FY 2022 Work and Financial Plan (WFP) last year. However, it was not included in the approved FY 2022 WFP under the Support to Operations - Data Management Including Systems Development and Maintenance, thus, the replacement and maintenance of the existing CCTV System cannot be done that may result to recurrent malfunctions or worse breakdown. When this happen, the CCTV System will lose its purpose of capturing and recording unexpected and unnecessary incidents inside and outside the Office.

In this regard, this Office is requesting for funds for the procurement of additional CCTV equipment and supplies to be used solely for the improvement and maintenance of the existing CCTV System for the current year with the total maximum amount of **Three Hundred Ten Thousand Pesos (Php310,000.00)**.

Attached are photos of the existing Closed-Circuit Television (CCTV) System, inventory of all CCTV cameras and the proposed technical specifications of the CCTV System for your reference.

For consideration and approval.

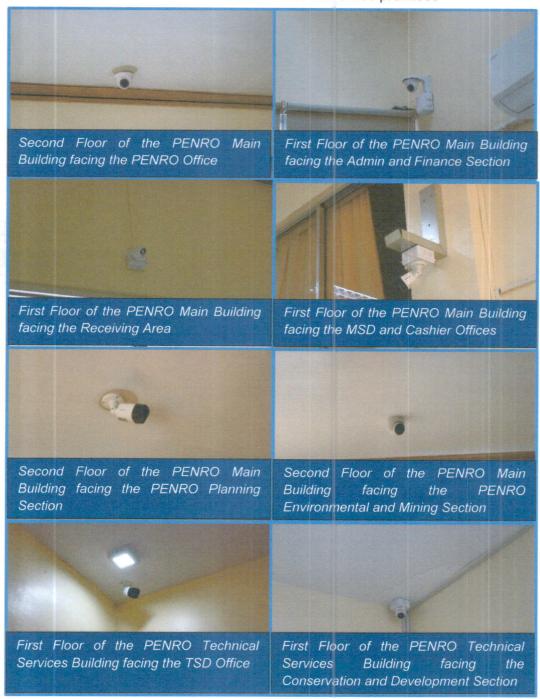
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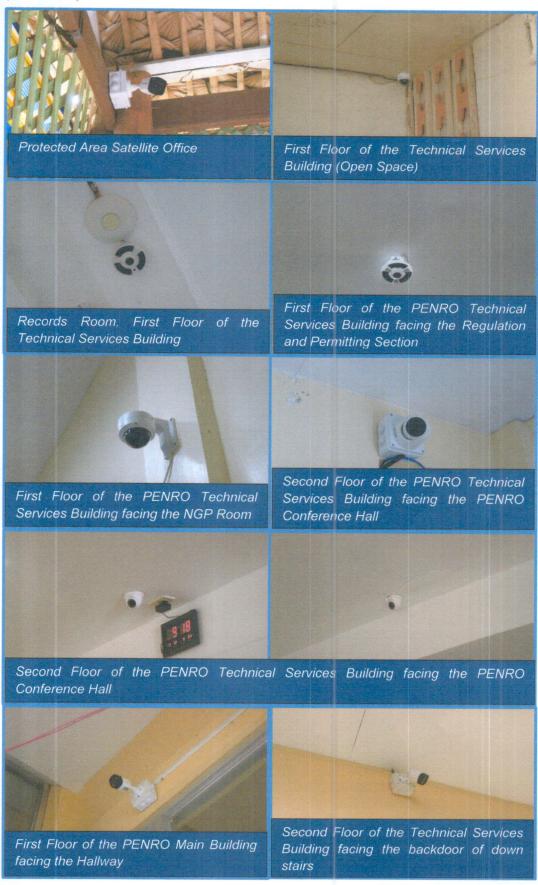
Table 9. List of Existing CCTV Cameras and Peripherals as of CY 2021

Hikvision Analog (Dome Type)	Table	9. List of Existing CCT		neras and Peripherals as of CY 202	The state of the same of the s
Camera (Dome Type) 2 Hikvision Analog (Dome Type) 3 Hikvision Analog (Dome Type) 4 Hikvision Analog (Dome Type) 5 Dahua Analog (Bullet Type) Indoor (Bullet Type) Indoor 6 Hikvision Analog (Bullet Type) Indoor 7 Dahua Analog (Bullet Type) Indoor 8 Hikvision Analog (Bullet Type) Indoor 6 Hikvision Analog (Bullet Type) Indoor 7 Dahua Analog (Bullet Type) Indoor 8 Hikvision Analog (Bullet Type) Indoor 8 Hikvision Analog (Bullet Type) Indoor 9 Hikvision Analog (Bullet Type) Indoor 10 Hikvision Analog (Bullet Type) Indoor 11 First Floor of the PENRO Serviceable (Bullet Type) Indoor 12 First Floor of the PENRO Serviceable (Bullet Type) Indoor 13 First Floor of the PENRO Serviceable (Bullet Type) Indoor (B	4	Description	Qty	Location	Remarks
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Clome Type Finance Section First Floor of the PENRO Main Building facing the Receiving Area First Floor of the PENRO Main Building facing the MSD and Cashier Offices Serviceable Camera (Bullet Type) Indoor Second Floor of the PENRO Serviceable Cashier Offices Serviceable Offices S	2	Hikvision Analog	1	First Floor of the PENRO Main	Serviceable
Camera (Dome Type) 4 Hikvision Analog Camera (Bullet Type) Indoor 5 Dahua Analog Camera (Bullet Type) Indoor 6 Hikvision Analog Camera (Bullet Type) Indoor 7 Dahua Analog Camera (Bullet Type) Indoor 8 Hikvision Analog Camera (Bullet Type) Indoor 8 Hikvision Analog Camera (Bullet Type) Indoor 8 Hikvision Analog Camera (Bullet Type) Indoor 9 Hikvision Analog Camera (Bullet Type) Indoor 10 Hikvision Analog Camera (Bullet Type) Indoor 11 First Floor of the PENRO Serviceable Camera (Bullet Type) Indoor 12 Fish Eye 360 Analog Camera (Dome Type) 13 Hikvision P Camera (Dome Type) 14 Hikvision P Camera (Dome Type) 15 Hikvision Analog Camera (Bullet Type) Indoor 16 Hikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Hikvision Analog Camera (Bullet Type) Indoor 19 Hikvision IP Camera (Dome Type) 10 Hikvision IP Camera (Dome Type) 11 Fish Eye 360 Analog Camera (Dome Type) 12 Fish Eye 360 Analog Tachical Services Building facing the Regulation and Permitting Section 14 Hikvision Analog Camera (Dome Type) 15 Hikvision Analog Camera (Dome Type) 16 Hikvision Analog Tachical Services Building facing the Regulation and Permitting Section 17 Dahua Analog Camera (Dome Type) 18 First Floor of the PENRO Serviceable Camera (Dome Type) 19 Hikvision Analog Camera (Dome Type) 10 Hikvision Analog Camera (Dome Type) 11 First Floor of the PENRO Serviceable Services Building facing the Regulation and Permitting Section 18 Hikvision Analog Camera (Dome Type) Indoor 19 Dahua Analog Camera (Bullet Type) Indoor 10 Dahua Analog Camera (Bullet Type) Indoor 11 Dahua Analog Camera (Bullet Type) Indoor 12 Pabua Analog Camera (Bullet Type) Indoor 13 Hikvision Analog Camera (Bullet Type) Indoor 14 Hikvision Analog Camera (Bullet Type) Indoor 15 Hikvision Analog Camera (Bullet Type) Indoor 16 Hikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Hikvision Analog Camera (Bullet Type) Indoor 19 Dahua Analog Camera (Bullet Type) Indoor 1		(Dome Type)			
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9 Hikvision Analog Camera (Bullet Type) Indoor 10 Hikvision IP Camera (Dome Type) 11 Fish Eye 360 Analog Camera Indoor 12 Fish Eye 360 Analog Camera Indoor 13 Hikvision IP Camera (Dome Type) 14 Hikvision IP Camera (Dome Type) 15 Hikvision Analog Camera (Dome Type) 16 Hikvision Analog Camera (Dome Type) 17 First Floor of the PENRO Technical Services Building facing the Regulation and Permitting Section 18 Hikvision Analog Camera (Dome Type) Indoor 19 Hikvision Analog Camera (Dome Type) 10 Second Floor of the PENRO Technical Services Building facing the NGP Room 10 Serviceable Technical Services Building facing the Regulation and Permitting Section 10 First Floor of the PENRO Technical Services Building facing the NGP Room 11 First Floor of the PENRO Technical Services Building facing the PENRO Conference Hall 11 Hikvision Analog Camera (Dome Type) 12 Second Floor of the PENRO Main Building facing the Hallway 13 Serviceable Technical Services Building facing the PENRO Main Building facing the Hallway 14 Hikvision Analog Camera (Bullet Type) Indoor 15 Dahua Analog Camera (Bullet Type) Indoor 16 Second Floor of the Technical Services Building facing the backdoor of down stairs	8	Camera	1	Technical Services Building facing the Conservation and	Serviceable
10 Hikvision IP Camera (Dome Type) 11 Fish Eye 360 Analog Camera Indoor 12 Fish Eye 360 Analog Camera Indoor 13 Hikvision IP Camera (Dome Type) 14 Hikvision Analog Camera (Dome Type) Indoor 15 Hikvision Analog Camera (Dome Type) Indoor 16 Hikvision Analog Camera (Dome Type) 17 Alikvision Analog Camera (Dome Type) Indoor 18 Hikvision Analog Camera (Dome Type) Indoor 19 Alikvision Analog Camera (Dome Type) Indoor 10 Alikvision Analog Camera (Dome Type) Indoor 10 Alikvision Analog Camera (Dome Type) Indoor 11 Alikvision Analog Camera (Dome Type) Indoor 12 Second Floor of the PENRO Serviceable (Dome Type) Indoor 13 Alikvision Analog Camera (Dome Type) Indoor 14 Alikvision Analog Camera (Dome Type) Indoor 15 Alikvision Analog Camera (Bullet Type) Indoor 16 Alikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Second Floor of the PENRO Main Building facing the Hallway (Bullet Type) Indoor 19 Dahua Analog Camera (Bullet Type) Indoor 10 Second Floor of the Technical Serviceable (Bullet Type) Indoor 10 Second Floor of the Technical Serviceable (Bullet Type) Indoor	9	Camera	1		Serviceable
Camera Indoor 12 Fish Eye 360 Analog Camera Indoor 13 Hikvision IP Camera (Dome Type) 14 Hikvision Analog Camera (Dome Type) Indoor 15 Hikvision Analog Camera (Dome Type) 16 Hikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Services Building (Open Space) 19 Records Room, First Floor of the PENRO Technical Services Building facing the Regulation and Permitting Section 10 First Floor of the PENRO Technical Services Building facing the NGP Room 11 First Floor of the PENRO Technical Services Building facing the PENRO Conference Hall 10 First Floor of the PENRO Main Building facing the Hallway 11 First Floor of the PENRO Main Building facing the Hallway 12 Second Floor of the PENRO Main Building facing the Hallway 13 Hikvision Analog Camera (Bullet Type) Indoor 14 Hikvision Analog Camera (Bullet Type) Indoor 15 Dahua Analog Camera (Bullet Type) Indoor 16 Services Building facing the backdoor of down stairs	10	Hikvision IP Camera	1	Protected Area Satellite Office	Serviceable
Camera Indoor 13 Hikvision IP Camera (Dome Type) 14 Hikvision Analog Camera (Dome Type) Indoor 15 Hikvision Analog Camera (Dome Type) 16 Hikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Hikvision IP Camera (Dome Type) Indoor 19 Technical Services Building facing the PENRO Technical Services Building facing the NGP Room 10 Technical Services Building facing the PENRO Conference Hall 11 First Floor of the PENRO Serviceable Serviceab	11	Camera	1		Serviceable
(Dome Type) Technical Services Building facing the Regulation and Permitting Section Hikvision Analog Camera (Dome Type) Indoor Technical Services Building facing the NGP Room Serviceable Technical Services Building facing the NGP Room Serviceable Technical Services Building facing the PENRO Conference Hall Hikvision Analog Camera (Dome Type) Hikvision Analog Camera (Bullet Type) Indoor Second Floor of the PENRO Main Building facing the Hallway Serviceable Services Building facing the Hallway Serviceable Services Building facing the Hallway Serviceable Services Building facing the backdoor of down stairs	12	Camera	1		Serviceable
Camera (Dome Type) Indoor 15 Hikvision Analog Camera (Dome Type) 16 Hikvision Analog Camera (Bullet Type) Indoor 17 Dahua Analog Camera (Bullet Type) Indoor 18 Hikvision Analog Camera (Bullet Type) Indoor 19 Dahua Analog Camera (Bullet Type) Indoor 10 Dahua Analog Camera (Bullet Type) Indoor 11 Topic Indoor 12 Second Floor of the PENRO Main Building facing the Hallway (Bullet Type) Indoor 12 Second Floor of the Technical Serviceable Services Building facing the backdoor of down stairs	13		1	Technical Services Building facing the Regulation and	Serviceable
Camera (Dome Type) Technical Services Building facing the PENRO Conference Hall Hikvision Analog Camera (Bullet Type) Indoor To Dahua Analog Camera (Bullet Type) Indoor	14	Camera	1	Technical Services Building	Serviceable
Camera (Bullet Type) Indoor 17 Dahua Analog 1 Second Floor of the Technical Serviceable Services Building facing the backdoor of down stairs	15	Camera	2	Technical Services Building facing the PENRO Conference Hall	Serviceable
Camera (Bullet Type) Indoor Services Building facing the backdoor of down stairs	16	Camera	1		Serviceable
INDOOR CCTVs 18	17	Camera	1	Services Building facing the	Serviceable
111001101110		INDOOR CCTVs	18		

	Description	Qty	Location	Remarks
18	Hikvision IP Camera	1	Back Door of the Protected Area	Serviceable
	(Dome Type) Indoor		Satellite Office	Conviocable
19	Hikvision Analog	1	Main Entrance of the PENRO	Serviceable
	Camera (Dome		Technical Services Building	
	Type) Indoor			
20	Hikvision Analog	1	Back Door of the PENRO	Serviceable
	Camera (Dome		Technical Services Building	
	Type) Indoor			
21	Hikvision Analog	1	Back Door of the PENRO Main	Serviceable
	Camera (Dome		Building	
	Type) Indoor			
22	Hikvision IP Camera	1	Left Side of the PENRO Main	Serviceable
	(Dome Type) Indoor		Building facing the MRF Area	
23	Hikvision IP Camera	1	Left Side of the PENRO Main	Serviceable
	(Dome Type) Indoor		Building facing the "Bahay Kubo"	
24	Hikvision IP Camera	1	Left Side of the PENRO Main	Serviceable
	(Dome Type) Indoor		Building facing the Lumber Shed	
25	Hikvision IP Camera	1	Front of the PENRO Main	Serviceable
	(Bullet Type)		Building facing the Protected	
-00	1171	4	Area Satellite Office	
26	Hikvision IP Camera	1	Front of the PENRO Main	Serviceable
	(Bullet Type)		Building facing the Main	
07	Hilm de la a ID O	4	Entrance	
27	Hikvision IP Camera	1	Front of the PENRO Main	Serviceable
28	(Bullet Type)	4	Building facing the Parking Area	
20	Hikvision IP Camera (Bullet Type)	1	Second Floor of the PENRO	Serviceable
29	Hikvision IP Camera	1	Main Building facing the Balcony Front of the PENRO Technical	Comicochic
23	(Bullet Type)	'	Services Building facing the	Serviceable
	(Builet Type)		Main Gate	
30	Hikvision IP Camera	1	Right Side of the PENRO	Serviceable
	(Bullet Type)		Technical Services Building	Cerviceable
	(24.161.1960)		facing the Main Road	
31	Hikvision IP Camera	1	Side of the PENRO Technical	Serviceable
	(Bullet Type)		Services Building facing the	COLVIOCADIC
	(Main Road	
32	Hikvision IP Camera	1	Left Side of the PENRO	Serviceable
	(Bullet Type)		Technical Services Building	
			facing the Main Road	
33	Dahua CCTV IP	1	Back Door of the PENRO Main	Serviceable
	Camera		Building facing the Generator	
	(Bullet Type)		Set	
(OUTDOOR CCTVs	16		
	TOTAL CCTV	34		
	CAMERAS			
34	DVR (18 channels)	1		Serviceable
35	NVR (16 channels)	1		Serviceable
36	Hard Disk (6TB)	1		Serviceable
37	Hard Disk (4TB)	2		Serviceable
38	Hard Disk (2TB)	1		Serviceable
39	Hard Disk (1TB)	4		Serviceable

Pictures of the CCTV cameras installed inside the Office premises





Pictures of the CCTV cameras installed outside the Office premises



(continuation)



Moreover, events inside and outside the Office premises were captured and recorded by the CCTV. In the event that a certain incident happened, the person involved can request for a CCTV Event Playback once the Service Request Form was accomplished and approved.

Pictures of the CCTV monitors located at the PENRO ICT Server Room, 2nd Floor of the PENRO Main Building



Website: https://penromarinduque.gov.ph/ Email: penromarinduque@denr.gov.ph

IT Equipment and Peripherals Needed for CCTV System

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DENR-PENRO MARINDUQUE

Equipment/Peripherals	Description	Quantity	Unit Price	Total	Purpose	End-User (Section/Unit)
NVR	□ Brand and Model: Hikvision DS-7632NI-K2/16P □ Up to 32 channel IP cameras can be connected □ Supports decoding H.265+/H.265/H.264+/H.264 video formats □ Up to 4K high-definition live view, storage and playback □ Up to 8-ch @ 1080p decoding capacity □ Up to 256 Mbps high incoming bandwidth ensures IP cameras can be connected □ 1 HDMI and 1 VGA interfaces: both interfaces support independent video output □ 2 HDDs for continuous video recording □ Plug & Play with 16 Power-over-Ethernet (PoE) interfaces	1	26,000.00	26,000.00	Improvement and maintenance of the existing CCTV System for the current year	DENR-PENRO Marinduque ICT Unit
DVR	□ Brand and Model: Hikvision DS-7232HQHI-K2 □ 32 channels and 2 HDDs 1U DVR □ Efficient H.265 pro+ compression technology □ Encoding ability up to 1080p @ 15 fps □ 5 signals input adaptively (HDTVI/AHD/CVI/CVBS/IP) □ Up to 40 network cameras can be connected	1	20,000.00	20,000.00		
CCTV SAN	 □ Brand and Model: Hikvision DS-AT1000S/288 □ 16*18 TB IoT SMR enterprise HDD □ IoT fully sealed helium HDD technology □ Surveillance-specialized direct storage (Direct Streaming mode) □ Highly cost efficient, safe and reliable □ Energy saving and space saving □ Easy operation and maintenance □ SMR HDD providing 5-year warranty 	1	200,000.00	200,000.00	Improvement and maintenance of the existing CCTV System for the current year	DENR-PENRO Marinduque ICT Unit

IT Equipment and Peripherals Needed for CCTV System

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DENR-PENRO MARINDUQUE

Equipment/Peripherals	Description	Quantity	Unit Price	Total	Purpose	End-User (Section/Unit)
RACK-MOUNT DC CCTV POWER SUPPLY	□ Brand and Model: ENFORCER® Rack-Mount DC CCTV Power Supply PH-U1612-PULQ □ 12 Amps at 12VDC □ 12.6~13.5 VDC field adjustable output □ Compact 1U height fits into standard 19" equipment racks □ Dual-color LED status indicator for each output: o Blue: Normal o Red: Fuse tripped □ 3 Amps per output □ Outputs protected by PTC fuses rated at 3A each □ Flexible cable management options: □ 2 Cable-management brackets with 3 different mounting points □ 2 Cable-management hooks with 3 different mounting points □ Rack-mount options: □ Facing forward – easy access to indicator LEDs □ Facing backward – easy access to connections □ Removable screw terminal blocks for convenient installation and reliable connections	1	50,000.00		Improvement and maintenance of the existing CCTV System for the current year	DENR-PENRO Marinduque - ICT Unit
CCTV CABLE	□ Brand and Model: Nexen RG6 Siamese Cable 305 meters □ RG6 Siamese Coaxial Cable with 2 Power Cable □ Core Conductor: #18 solid CCS □ Dielectric: Foamed PE □ Shield: 100% Bonded Aluminum Foil + Braid □ Outer Jacket: Black UV resistant PVC □ DC Power: 2 * #18 AWG Stranded CCA Red/Black □ Length: 305 Meters	2	7,000.00	14,000.00	Improvement and maintenance of the existing CCTV System for the current year	DENR-PENRO Marinduque ICT Unit
	GRAND TOTAL			310,000.00		

Prepared by:

MARK RYAN S. LOZADA Information Systems Analyst II Reviewed by:

JHONNA LIZA S. MEDENILLA
Planning Officer II/In-Charge, Planning Section