



Cabidlanan, Nabunturan, Davao de Oro

Bid Number: B-25-0189
Date: 09/03/2025
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Purchase Request Number: 25-4525

ITEM NO.	QTY.	UNIT OF ISSUE	DESCRIPTION	APPROVED BUDGET		BID PRICES	
				Unit Price	Total Amount	Unit Price	Total Amount
1	1.0	lot	<p>INSTALLATION OF AN END-TO-END MULTI-HAZARD EARLY WARNING AND MONITORING SYSTEM PHASE III WITH REMOTE CCTV EMPLOYING SCADA TECHNOLOGY TO STRENGTHEN DISASTER PREPAREDNESS</p> <p>A. Site 1: San Jose Bridge Latitude: 7°38'25.51"N Longitude: 126° 4'18.09"E 1. CCTV - 1 unit 4+4MP 25x Network Dual Lens PTZ Camera 25x Optical Zoom Max. 25/30 fps@4M IR distance up to 100m LINK 1 – NEW CALAPE to SAN JOSE BRIDGE 2. RADIO - 2 units RADIO ePMP Force 300-25 - Channel Width MHz 20 40 80 - Proprietary Physical Layer 802.11ax, 2x2 MIMO/OFDM - Channel Spacing Configurable in 5 MHz increments - Frequency Range Wide-band operation 4910–6135 MH 3. 80ft Monopole tower, with access for repairs/maintenance plus guy wires 4. 15-25ft tapered/octagonal pole or 3" GI pipe for CCTV B. Site 2: Kalaw Bridge, Poblacion Monkayo Latitude: 7°49'52.82"N Longitude: 126° 3'1.12"E 1. CCTV - 1 unit 4+4MP 25x Network Dual Lens PTZ Camera 25x Optical Zoom Max. 25/30 fps@4M IR distance up to 100m LINK 2 – NEW CALAPE to KALAW BRIDGE 2. RADIO - 2 units RADIO ePMP Force 300-25 - Channel Width MHz 20 40 80 - Proprietary Physical Layer 802.11ax, 2x2 MIMO/OFDM - Channel Spacing Configurable in 5 MHz increments - Frequency Range Wide-band operation 4910–6135 MH 3. 60ft Monopole tower, with access for repairs/maintenance plus guy wires - 1</p>	2,000,000.00	2,000,000.00		
			SUB-TOTAL	2,000,000.00			

Purpose:	FOR USE OF PDRRMO
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Delivery: PGSO

Period of Delivery: 60 DAYS



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ITEM NO.	QTY.	UNIT OF ISSUE	DESCRIPTION	APPROVED BUDGET		BID PRICES	
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			<p>redundancy to prevent data loss.</p> <p>3.3 Sensor Data Integration Interface with:</p> <ul style="list-style-type: none"> o Tipping bucket rain gauges for rainfall intensity and accumulation data. o Ultrasonic water level sensors for river/stream height measurements. <p>Support data polling and/or push-based transmission from each remote station. Apply data validation and filtering to remove erroneous readings.</p> <p>3.4 Real-Time Monitoring Dashboard Develop a web-based monitoring dashboard accessible via local network and secure remote login. Display on large screen monitor in PDRRMOC with:</p> <ul style="list-style-type: none"> o Map-based view showing sensor locations and current readings. o Color-coded status indicators for sensor health and alert levels. o Graphs (limited) of historical and live data trends. <p>Provide customizable thresholds for alert generation.</p> <p>3.5 Alert and Notification System Pop-up notifications for:</p> <ul style="list-style-type: none"> o Rainfall rate exceeding defined limits. o Water level exceeding flood warning thresholds. <p>On-screen flashing indicators and alarms at the PDRRMOC.</p> <p>3.6 User Roles and Access Control Administrator: Full access, configuration, and maintenance. Operator: Read-only dashboard access with ability to acknowledge alerts.</p> <p>3.7 Training and Documentation On-site training for PDRRMOC staff on:</p> <ul style="list-style-type: none"> o System operation o Data interpretation o Routine maintenance <p>Delivery of complete user manuals and system documentation.</p> <p>4. Technical Specifications 4.1 Hardware Requirements (Not included in the Scope deliverables) Database Server:</p> <ul style="list-style-type: none"> o Processor: Intel Xeon or equivalent, 8 cores o Memory: 32 GB RAM o Storage: 2 TB RAID-1/RAID-5, SSD preferred 				
			GRAND TOTAL		2,000,000.00		

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			o OS: Linux or Windows Server Large Screen Monitor: o Size: 32 inches o Resolution: 4K UHD o Input: HDMI/Display Port Field Sensors: o Rain Gauge: Tipping bucket type, accuracy ±2% at 20 mm/h o Ultrasonic Water Level Sensor: Accuracy ±2 cm, range 10 meters o Communication Module: P2P/Radio o Solar-powered with battery backup (minimum 3-5 days autonomy) 4.2 Software Requirements Database: PostgreSQL/MySQL (open-source or licensed as required) Server Application: Python/Node.js/Java backend with REST API endpoints Frontend Dashboard: HTML5, JavaScript (React/Vue/Angular), responsive design Security: SSL/TLS encryption, password hashing, role-based authentication Backup: Automated daily backups, stored on external drive or cloud H. Additional Qualifications/Certifications 1. Bidders must be located in Mindanao to assure immediate response support whenever problem arises. 2. Bidders must submit PCAB Communications License for communication specialty. 3. Bidders Local Technician must have at least 2 years' experience in any Disaster Risk Reduction Management Operations Center 4. Bidders Local Technician must have at least 2 years' experience in PAGASA-DOST Sensor Controls 5. Bidders must have HCSA Certified Installer 6. Bidders must have 1 BOSH safety officer Terms and Condition: 1. Should Provide Training on the maintenance of equipment 2. With installation includes, configuration, testing and commissioning , programming, including end-user training for 1 day 3. Bidders must have conducted actual site survey of the propose site with site survey certificate as proof				
			GRAND TOTAL	2,000,000.00			

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PROVINCIAL GOVERNMENT OF DAVAO DE ORO

Cabidanan, Nabunturan, Davao de Oro

TECHNICAL SPECIFICATIONS FORM

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			4. Bidder must ensure system compatability and integration with the Phase I and Phase II of the end-to-end multihazard early warning system installed in the province 5. The installed end-to-end Multi-Hazard Early Warning and Monitoring System Phase III with remote CCTV shall be covered by a one (1) year service warranty, effective from the date of final testing, acceptance, and turnover to the end-user office.				
			GRAND TOTAL		2,000,000.00		

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