



PHILIPPINE MARINE CORPS  
**OFFICE OF THE PMC BIDS AND AWARDS COMMITTEE**  
Marine Barracks Rudiardo Brown, Fort Bonifacio, Taguig City

22 July 2024

**Supplemental/Bid Bulletin No.1**

**Supply and Delivery of Materials for the Procurement of C4ISR Equipment of PKO Bn**  
with an ABC of **Twenty-Four Million Two Hundred Fifty Thousand Pesos (PhP24,250,000.00)**  
**Lot-1 Supply and Delivery of Materials for the Ground-air base station transceivers AM/FM (PhP14,000,000.00)**  
**Lot-3 Supply and Delivery of Materials for the Procurement of Military Police and Security Equipment of PKO Bn (PhP10,250,000.00)**  
**(C4ISR-PMCBAC-2024-10)**

This Supplemental/Bid Bulletin is issued to inform prospective bidders the modifications/amendments that shall form part of the bidding documents for the project: **Supply and Delivery of Materials for the Procurement of C4ISR Equipment of PKO Bn (C4ISR-PMCBAC-2024-10)**.to wit:

**Amendment in the Bidding Documents:**

Item	From	To
1	SECTION I. INVITATION TO BID FOR THE PROJECT Supply and Delivery of Materials for the Procurement of C4ISR Equipment of PKO Bn  2. The Philippine Marine Corps now invites bids for the above Procurement Project. Delivery of Goods is required by One Hundred Twenty (120) Calendar Days upon Receipt of NTP for the Lot 1 and <b>Ninety (90) Calendar Days upon Receipt of NTP for the Lot 1 and Lot 3.</b>	SECTION I. INVITATION TO BID FOR THE PROJECT Supply and Delivery of Materials for the Procurement of C4ISR Equipment of PKO Bn  2. The Philippine Marine Corps now invites bids for the above Procurement Project. Delivery of Goods is required by One Hundred Twenty (120) Calendar Days upon Receipt of NTP for the Lot 1 and <b>Ninety (90) Calendar Days upon Receipt of NTP for the Lot 3.</b>


<u>Section VII. Technical Specifications</u>				<u>Section VII. Technical Specifications</u>			
Lot 1 Supply and Delivery of Materials for the Procurement of Station Transceivers of PKOBN				Lot 1 Supply and Delivery of Materials for the Procurement of Station Transceivers of PKOBN			
Item Nr	Item	Qty/U/I	Specifications	Item Nr	Item	Qty/U/I	Specifications
2	1	2 ea	<p><b>GENERAL:</b></p> <ul style="list-style-type: none"> <li>• <b>Frequency:30-512 MHz</b></li> <li>• Bandwidth: 8.33, 12.5, 25, &amp; 75 kHz, 1.2 MHz</li> <li>• Net Preset: <b>25, RF</b></li> <li>• <b>Input/Output Impedance: 50 Ohms</b></li> <li>• <b>Input Power: 20-32 VDC</b></li> <li>• <b>Collocation: 15% frequency and 1.5m antenna separation</b></li> </ul> <p><b>PHYSICAL:</b></p> <ul style="list-style-type: none"> <li>• <b>Dimensions: 7.87W x 7.84H x 13.5D inches, Weight: &lt;28.0 lbs</b></li> <li>• <b>Color (CARC Finish): Green</b></li> </ul> <p><b>TRANSMIT:</b></p> <ul style="list-style-type: none"> <li>• <b>Power Output: 30-108 MHz (5 watts, 20 watts, 50 watts) - 108-512 MHz (5 watts, 10 watts, 20 watts)</b></li> <li>• <b>Shock: Ground/Mobile per MIL-STD-810G</b></li> </ul>	1	Ground-air base station transceivers AM/FM	2 ea	<p><b>GENERAL:</b></p> <ul style="list-style-type: none"> <li>• <b>Frequency Range:</b> <ul style="list-style-type: none"> <li>➤ <b>Narrowband: 30-512 MHz</b></li> <li>➤ <b>Wideband: 225-512 MHz</b></li> </ul> </li> <li>• Bandwidth: 8.33, 12.5, 25, &amp; 75 kHz, 1.2 MHz</li> <li>• Net Preset: <b>25 total</b></li> <li>• <b>GPS: Internal GPS</b></li> </ul> <p><b>PHYSICAL:</b></p> <ul style="list-style-type: none"> <li>• <b>Dimensions: 7.87H x 7.48W x 13.5D inches</b></li> <li>• <b>Weight: &lt;28.0 lbs</b></li> <li>• <b>Color Finish: CARC Green</b></li> </ul> <p><b>TRANSMIT:</b></p> <ul style="list-style-type: none"> <li>• <b>Power Output:</b> <ul style="list-style-type: none"> <li>➤ <b>30-108 MHz (5 watts, 20 watts, 50 watts)</b></li> <li>➤ <b>108-512 MHz (5 watts, 10 watts, 20 watts)</b></li> <li>➤ <b>UHF SATCOM (5 watts, 20 watts, 50</b></li> </ul> </li> </ul>

				<ul style="list-style-type: none"> <li>• <b>Immersion: 1 meter (-3.28 ft)</b></li> <li>• <b>Humidity: 90% per MIL-STD 810G</b></li> <li>• <b>Vibration: Ground/Mobile per MIL-STD-810G</b></li> </ul>			<p>watts) all are user selectable</p> <ul style="list-style-type: none"> <li>• <b>Audio Output: Variable and fixed levels</b></li> </ul> <p>RECEIVER:</p> <ul style="list-style-type: none"> <li>• <b>Sensitivity:</b> <ul style="list-style-type: none"> <li>➤ (VHF FM: -112 dBm @ 12 dB SINAD)</li> <li>➤ (UHF FM: -118 dBm @ 12 dB SINAD)</li> <li>➤ (UHF AM: -103.5 dBm @ 10 dB SINAD)</li> </ul> </li> <li>• <b>IF/Image Rejection: &gt;70 dB</b></li> </ul> <p>POWER:</p> <ul style="list-style-type: none"> <li>• <b>Power Input: 20 VDC – 32 VDC</b></li> <li>• <b>Power Consumption: Max 450 W</b></li> </ul> <p>SECURITY:</p> <ul style="list-style-type: none"> <li>• <b>Encryption: 128 and 256-bit L3Harris proprietary Citadel®, AES 128 and 256, Customer Algorithm</b></li> </ul> <p>MODES AND WAVEFORMS:</p> <ul style="list-style-type: none"> <li>• <b>AM/FM Analog Voice, FSK/ASK MELP Voice, FSK/ASK CVSD Voice, FSK/TCM Data,</b></li> </ul>
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								<p><b>GMSK/QPSK Data*, ECCM</b></p> <ul style="list-style-type: none"> <li>• <b>Narrowband Networking: TDMA Networking Waveform (TNW) 25K and 75K</b></li> </ul> <p>ENVIRONMENTAL:</p> <ul style="list-style-type: none"> <li>• <b>Temperature: Storage: -22°F to +158°F. Operation: -22°F to +140°F</b></li> <li>• <b>Immersion: 1 meter</b></li> <li>• <b>MIL-STD-810G</b></li> </ul> <p>INTERFACES:</p> <ul style="list-style-type: none"> <li>• <b>Data: IP, USB RNDIS, Serial and WPAN</b></li> <li>• <b>Audio: Standard 6 Pin, IP</b></li> <li>• <b>Antenna Port: BNC; 50 Ohms</b></li> <li>• <b>Programming: USB, Ethernet</b></li> </ul> <p>INCLUSION:</p> <ul style="list-style-type: none"> <li>• <b>Mounting Plate Assembly</b></li> <li>• <b>Install Kit with DC Power Cable</b></li> <li>• <b>System Install &amp; Maintenance Manual</b></li> </ul>
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Section VII. Technical Specifications Lot 3 - Supply and Delivery of Materials for the Procurement of Technical and Scientific Equipment of PKO Bn				Section VII. Technical Specifications Lot 3 - Supply and Delivery of Materials for the Procurement of Technical and Scientific Equipment of PKO Bn			
Item Nr	Item	Qty/U/I	Specifications	Item Nr	Item	Qty/U/I	Specifications
3	2	1 ea	Optional Drone Payload Specs <ul style="list-style-type: none"> <li>• Max Payload Weight: 300 grams</li> <li>• Power Output for Payload: 3.3V/5V/12V</li> <li>• Payload Communication Interfaces to drone: I2C, SPI, UART, DI/Dox3, USB 2.0; Note: from drone to CU by the drone communication</li> </ul>	2	Multi-rotor Drone Unmanned System	1 ea	Optional Drone Payload Specs <ul style="list-style-type: none"> <li>• Max Payload Weight: 300 grams</li> <li>• Power Output for Payload: 3.3V/5V/12V</li> <li>• Payload Communication Interfaces to drone: I2C, SPI, UART, DI/Dox3, USB 2.0; Note: from drone to CU by the drone communication</li> <li>• <b>With Oxygen Sensor</b></li> </ul>
Statement of Compliance to Technical Specification Lot 1 - Supply and Delivery of Materials for the Ground-air base station transceivers AM/FM				Statement of Compliance to Technical Specification Lot 1- Supply and Delivery of Materials for the Ground-air base station transceivers AM/FM			
Item Nr	Item	Qty/U/I	Specifications	Item Nr	Item	Qty/U/I	Specifications
4.	1	2 ea	GENERAL: <ul style="list-style-type: none"> <li>• <b>Frequency:30-512 MHz</b></li> <li>• <b>Bandwidth: 8.33, 12.5, 25, &amp; 75 kHz, 1.2 MHz</b></li> <li>• <b>Net Preset: 25, RF</b></li> <li>• <b>Input/Output Impedance: 50 Ohms</b></li> <li>• <b>Input Power: 20-32 VDC</b></li> <li>• <b>Collocation: 15% frequency and 1.5m antenna separation</b></li> </ul>	1	Ground-air base station transceivers AM/FM	2 ea	GENERAL: <ul style="list-style-type: none"> <li>• <b>Frequency Range:</b> <ul style="list-style-type: none"> <li>➤ <b>Narrowband: 30-512 MHz</b></li> <li>➤ <b>Wideband: 225-512 MHz</b></li> </ul> </li> <li>• <b>Bandwidth: 8.33, 12.5, 25, &amp; 75 kHz, 1.2 MHz</b></li> <li>• <b>Net Preset: 25 total</b></li> <li>• <b>GPS: Internal GPS</b></li> </ul>

This Supplemental/Bid Bulletin No.1 shall be considered an integral part of the bidding documents



**BOB R APOSTOL**  
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Chairperson, PMCBAC