



Republic of the Philippines  
Department of Health  
**CENTRAL OFFICE BIDS AND AWARDS COMMITTEE**

**BID BULLETIN NO. 1**  
19 December 2023

**RENTAL OF TRUNKED RADIO COMMUNICATION SYSTEM (PORTABLE, MOBILE AND BASE RADIOS)**  
**IB No. 2024-162**

This Bid Bulletin is being issued to amend or modify the bidding documents posted in the PhilGEPS and DOH websites for the above-mentioned project; This Bid Bulletin shall form an integral part of the bidding document. Listed below are the corresponding modifications/changes:

**1. Section VII. Technical Specifications**

Particular	From		To	
	TRANSMITTER	800MHz	TRANSMITTER	800MHz
IV. Technical Specifications	RF Power Output	VHF High Power: 50W VHF Low Power: 25W UHF1 High Power: 45W UHF1 Low Power: 25W UHF3: 25W	RF Power Output	<b>VHF High Power: 5W; VHF Low Power: 1W;4 UHF1 High Power: 3W; UHF1 Low Power: 1W UHF3 High Power: 4W; UHF3 Low Power: 1W</b>
A. Digital Radio (Units + Subscription/ System				

Attached are the revised Terms of Reference and Technical Specifications form, for your reference.

All other provisions of the bidding documents which are not affected shall remain in force and in effect.

For guidance and information of all concerned.

**sgd**  
**ABDULLAH B. DUMAMA JR, MD, MPA, CESO I**  
Undersecretary of Health  
COBAC-B Chairperson

## TERMS OF REFERENCE

	Project Title	<b>Rental for Trunked Radio Communication System (Portable, Mobile and Base Radios)</b>
<b>I.</b>	<b>Background/ Rationale</b>	<p>Philippines had been hit by countless of emergencies and major disasters such as typhoons, earthquakes, fire incidents, pandemics and other mass casualty events. Over the years, HEMB-OPCEN has been using base radio transceiver and handheld radios when all other communication equipment failed. In addition, National events such as yearly celebration of Feast of the Black Nazarene, the recent Papal Visit, Asia Pacific Economic Cooperation (APEC) and Association of Southeast Asian Nations (ASEAN), all available radio transceivers were used while all other cell phone networks were blocked and jammed for security reasons.</p> <p>Moreover, radio transceivers are also being used for COVID-19 patients timely and effective referral and coordination when all phone lines are busy.</p> <p>In this regard, as part of enhancement of DOH communication system and considering the limited capacity of the DOH in terms of available trunked radio units, the DOH through the Health Emergency Management Bureau will rent a DIGITAL Trunked Radio System within Metro Manila and also continue the existing subscription of ANALOG Trunked Radio System for outside Metro Manila through a service provider. DIGITAL Trunked Radio System is limited only within Metro Manila.</p> <p>The Trunked Radio Communication System can be utilized for various activities such as real time group calling, monitoring and coordination but not limited to the following activities:</p> <ol style="list-style-type: none"> <li>a. Coordination between DOH Regional Offices, Hospitals, Emergency Response Teams (ERT), HEMB Operations Center and mobilized emergency units.</li> <li>b. Communication and coordination for dispatch of ambulance and emergency vehicles with the receiving DOH Hospital</li> <li>c. Communication and coordination for Emergency Response Teams deployment and logistics mobilization.</li> <li>d. Disaster and other related emergency responses</li> </ol>
<b>II.</b>	<b>Objective</b>	<ol style="list-style-type: none"> <li>1. To provide quality and effective radio communication system for HEMB to ensure effective monitoring, coordination, communication and response to emergencies, disasters and planned events.</li> <li>2. To impart knowledge on how to use the radio system to the end user and providing necessary instructional materials to assist on the use of the radio.</li> <li>3. To provide preventive maintenance to all members of the DOH Talk Group as need arises.</li> <li>4. To provide technical report with regards to the status of all radios installed during preventive maintenance.</li> </ol>

<p><b>III.</b></p>	<p><b>Implementation Arrangements</b></p>	<p>1. Period of Service: Contract will start <b>within fifteen (15) calendar days</b> from the receipt of approved Notice to Proceed (NTP) and will run for 12 months.</p> <p>2. A total of <b>one hundred nine (109) units DIGITAL RADIOS</b> (units with system subscription within Metro Manila) and <b>sixteen (16) existing ANALOG RADIOS</b> (system subscription only outside Metro Manila) will be provided by Service provider.</p> <p>3. Service Provider should have repeaters installed and shall provide an efficient and reliable communication system for DOH-HEMB operational requirements on the following areas but not limited to:</p> <table border="1" data-bbox="683 607 1264 719"> <tr> <td>● Metro Manila</td> <td>● Cabanatuan</td> </tr> <tr> <td>● Baguio</td> <td>● Pampanga</td> </tr> <tr> <td>● Pangasinan</td> <td>● Batangas</td> </tr> </table> <p>4. In case there is a need for increase in the existing number of radio rented and subscribed, it shall be subject for adjustment of the monthly statement of account as agreed upon by both parties charged against the HEMB fund.</p> <p>5. Parts such as Cable, Battery, antenna and other parts of Motorola analog radio units that may deemed necessary for its functionality due to repair and migration will be shouldered by the provider.</p> <p>6. Additional interlink fee for outside Metro Manila coverage on top of the existing interlink fee (regardless of number of radio units) not exceeding Five Thousand Pesos (P5,000.00) shall be charged to HEMB fund.</p> <p>7. The end user shall have the right to terminate the Contract anytime once the Head of Agency, office or group submits reports to the Health Emergency Management Bureau regarding their dissatisfaction once coverage is not met by the service provider, detrimental to public service. However, dissatisfaction complaint shall be validated by both parties prior to termination.</p>	● Metro Manila	● Cabanatuan	● Baguio	● Pampanga	● Pangasinan	● Batangas																														
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<p><b>IV.</b></p>	<p><b>Technical Specification</b></p>	<p><b>A. DIGITAL RADIO (UNITS + SUBSCRIPTION / SYSTEM)</b></p> <table border="1" data-bbox="421 1435 1522 1998"> <thead> <tr> <th colspan="2" style="background-color: #cccccc;">BASE / MOBILE RADIO</th> </tr> </thead> <tbody> <tr> <td>Dimension (HxWxD)</td> <td>At least 60 x 147 x 200mm / 2.362 x 6.850 x 7.874 inch</td> </tr> <tr> <td>Weight</td> <td>1.7kg (3.75lbs)</td> </tr> <tr> <th colspan="2" style="background-color: #cccccc;">RECIEVER</th> </tr> <tr> <td>Frequency Range</td> <td>800MHz 851-866 MHz</td> </tr> <tr> <td>Intermodulation</td> <td></td> </tr> <tr> <td>- TIA-603</td> <td>75dB @ 12.5/20/25 kHz</td> </tr> <tr> <td>- ETSI</td> <td>70dB @ 12.5/20/25 kHz</td> </tr> <tr> <td>Usable Sensitivity</td> <td>0.3 μV/BER5%</td> </tr> <tr> <td>Selectivity</td> <td></td> </tr> <tr> <td>- TIA-603</td> <td>65dB @ 12.5 kHz / 75dB @ 20/25 kHz</td> </tr> <tr> <td>- ETSI</td> <td>60dB @ 12.5 kHz / 70dB @ 20/25 kHz</td> </tr> <tr> <td>Spurious Rejection</td> <td></td> </tr> <tr> <td>- TIA-603</td> <td>75dB @ 12.5/20/25 kHz</td> </tr> <tr> <td>- ETSI</td> <td>70dB @ 12.5/20/25 kHz</td> </tr> <tr> <td>Rated Power Output</td> <td>3W</td> </tr> <tr> <td>Rated Audio Output</td> <td>&lt;3%</td> </tr> <tr> <td>Audio Response</td> <td>+1~-3dB</td> </tr> </tbody> </table>	BASE / MOBILE RADIO		Dimension (HxWxD)	At least 60 x 147 x 200mm / 2.362 x 6.850 x 7.874 inch	Weight	1.7kg (3.75lbs)	RECIEVER		Frequency Range	800MHz 851-866 MHz	Intermodulation		- TIA-603	75dB @ 12.5/20/25 kHz	- ETSI	70dB @ 12.5/20/25 kHz	Usable Sensitivity	0.3 μV/BER5%	Selectivity		- TIA-603	65dB @ 12.5 kHz / 75dB @ 20/25 kHz	- ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz	Spurious Rejection		- TIA-603	75dB @ 12.5/20/25 kHz	- ETSI	70dB @ 12.5/20/25 kHz	Rated Power Output	3W	Rated Audio Output	<3%	Audio Response	+1~-3dB
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Conducted Spurious Emission	<-57dBm
<b>TRANSMITTER</b>	<b>800MHz</b>
RF Power Output	<b>VHF High Power: 5W; VHF Low Power: 1W;4 UHF1 High Power: 3W; UHF1 Low Power: 1W UHF3 High Power: 4W; UHF3 Low Power: 1W</b>
Emission (Conducted & Radiated)	-36dBw <1Ghz & -30dBw>1GHz
FM Hum & Noise (Companion Receiver)	40 db @ 12.5 kHz 43 dB @ 20 kHz 45 dB @ 25 kHz <3%
Audio Distortion Modulation Limiting	±5.0 kHz @ 25kHz

<b>PORTABLE / HANDHELD RADIO</b>	
Dimension (HxWxD)	At least 125 x 55 x 37mm / 4.921 x 2.165 x 1.458 inch
Weight	355g (0.78 lbs)
<b>RECIEVER</b>	<b>800MHz</b>
Frequency Range	851-870 MHz
Intermodulation	
- TIA-603	70dB @ 12.5/20/25 kHz
- ETSI	65dB @ 12.5/20/25 kHz
Usable Sensitivity	0.3 µV/BER5%
Selectivity	
- TIA-603	60dB @ 12.5 kHz / 70dB @ 20/25 kHz
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Spurious Rejection	
- TIA-603	70dB @ 12.5/20/25 kHz
- ETSI	70dB @ 12.5/20/25 kHz
Rated Power Output	0.5W
Rated Audio Output	<3%
Audio Response	+1~-3dB
Conducted Spurious Emission	<-57dBm
<b>TRANSMITTER</b>	<b>800MHz</b>
RF Power Output	<b>VHF High Power: 50W VHF Low Power: 25W UHF1 High Power: 45W UHF1 Low Power: 25W UHF3: 25W</b>
Frequency Range	806-825 MHz
Emission (Conducted & Radiated)	-36dBw <1Ghz & -30dBw>1GHz
FM Hum & Noise (Companion Receiver)	40 db @ 12.5 kHz 43 dB @ 20 kHz 45 dB @ 25 kHz <3%
Audio Distortion Modulation Limiting	±5.0 kHz @ 25kHz

**B. ANALOG RADIO (SUBSCRIPTION / SYSTEM ONLY)**

<b>V. Roles and Responsibilities</b>	<p><b>I. Health Emergency Management Bureau (HEMB)</b></p> <ol style="list-style-type: none"> <li>Provides list of areas of engagement to the service provider for their reference.</li> <li>Ensures payment of monthly service fee to the service provider.</li> <li>Reports any problem encountered in the trunked radio system to the service provider for appropriate action (Repair or replacement, frequency adjustment, calibration, etc.)</li> <li>Monitors the functionality of the radio units through daily radio checks.</li> <li>In case of damage of Analog trunked radio unit, batteries, and other parts, the end</li> </ol>
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user deserves the right to choose where to buy based on the specifications given by the service provider.

## II. Service Provider

- a. Ensure that the trunked radio system and radio units are registered by the National Telecommunications Commission (NTC) and must have an authorization to operate and to charge rate; a copy of registration shall be submitted upon delivery of the units.
- b. Ensure availability and compatibility of trunked radio system with the existing ANALOG radio units of the end user.
- c. Ensures the functionality and operational worthiness of the radio units and system.
- d. Provides a common radio frequency to inter-link all emergency response units in case of emergencies.
- e. Performs migration, re-programing, calibration and tuning in of the radio units to the proposed network as needed during the contract period.
- f. Assists DOH in setting up an operational radio communication base (Hub) in areas of engagement.
- g. Conducts training of radio users on proper use of the radio units.
- h. Conducts annual preventive maintenance services of all existing radio units.
- i. Upon diagnosis by service provider that the unit is not functional. Service provider should provide backup/ service unit/s (**Digital Units Only**) within ten (10) days (regardless of location / site which shall continue even when the contract has been extended.
- j. Identifies blind spots in the areas of engagement and provides solutions / assistance to the end user.
- k. Provides free pick-up and delivery of repaired / unit replacement.
- l. Provides free service on transfer or relocation of radio base / mobile units to a new location.
- m. Conducts redesign / upgrade of DOH radio communication system for maximum and efficient signal strength.
- n. Provides twenty-four (24) hours availability of trunked radio communication system and technical support.
- o. Ensures availability of technical staff for the installation, test check, repair and replacement of radio units (**Analog and Digital Units**).
- p. Prepares and submits monthly billing statements to the DOH HEMB for payment of service fees on the first week of the succeeding month.
- q. Provides the end user a Monthly progress report for every radio unit under repair, repaired done, and report of functional units, semi-annual report of maintenance check conducted for monitoring purposes.
- r. Provides quotation of assessed Motorola Analog Radio Units that needs repair.
- s. Provides all accessories for DIGITAL radios including acoustic earpiece, knobs, antenna, dust cup, belt clip and charger adaptors for portable radios and whip antenna, palm microphone, mounting hardware, DC cable and power supply for base and mobile radios.
- t. Ensures that no other radio groups will be allowed to connect to the assigned frequency of the DOH unless given directive and approval by the Head of the Operations Center and the Office of the Director.

<p><b>Additional Requirements</b></p>	<ol style="list-style-type: none"> <li>1. Valid and current National Telecommunications Commission (NTC) License to Operate;</li> <li>2. Certificate for Handheld Radio Frequency issued by NTC;</li> <li>3. The bidder shall submit any of the following whichever is applicable:             <ol style="list-style-type: none"> <li>a. If the bidder is a manufacturer, certificate that the bidder manufactures the products/item; or</li> <li>b. If the bidder is an Exclusive/Authorized Distributor or Dealer of the products/items, Certificate or Contract from the manufacturer or importer must be provided as proof that the bidder is an Exclusive/Authorized Distributor or Dealer of the products/items; or</li> <li>c. If the bidder is an agent of the exclusive distributor or dealer, the following must be provided:                 <ol style="list-style-type: none"> <li>i. Certificate or Distributor/Dealership Agreement by the Manufacturer with the distributor or dealer; and</li> <li>ii. Certificate/Contract between the distributor/dealer and the bidder.</li> </ol> </li> </ol> </li> <li>4. Original brochure or downloaded from the internet and other manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate for cross-referencing statement of compliance to the technical specification in accordance to what is indicated in 2nd page of Section VII. Technical Specifications of the Bidding Documents.</li> </ol>
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<p><b>Distribution List of Radio Units</b></p>	<p><b>I. Metro Manila</b></p> <table border="1" data-bbox="459 1120 1532 2004"> <thead> <tr> <th data-bbox="459 1120 1066 1182">Hospital/Office</th> <th data-bbox="1066 1120 1532 1182">Total Active Units</th> </tr> </thead> <tbody> <tr> <td data-bbox="459 1182 1066 1290">Amang Rodriguez Medical Center</td> <td data-bbox="1066 1182 1532 1290">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1290 1066 1397">Dr. Jose Fabella Memorial Hospital</td> <td data-bbox="1066 1290 1532 1397">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1397 1066 1505">Dr. Jose N. Rodriguez Memorial Hospital</td> <td data-bbox="1066 1397 1532 1505">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1505 1066 1612">Dr. Jose R. Reyes Memorial Medical Center</td> <td data-bbox="1066 1505 1532 1612">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1612 1066 1720">East Avenue Medical Center</td> <td data-bbox="1066 1612 1532 1720">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1720 1066 1827">Las Piñas General Hospital &amp; Satellite Trauma Center</td> <td data-bbox="1066 1720 1532 1827">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1827 1066 1935">Lung Center of the Philippines</td> <td data-bbox="1066 1827 1532 1935">1 Digital Base 1 Digital Mobile 2 Digital Handheld</td> </tr> <tr> <td data-bbox="459 1935 1066 2004">National Children's Hospital</td> <td data-bbox="1066 1935 1532 2004">1 Digital Base 1 Digital Mobile</td> </tr> </tbody> </table>	Hospital/Office	Total Active Units	Amang Rodriguez Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld	Dr. Jose Fabella Memorial Hospital	1 Digital Base 1 Digital Mobile 2 Digital Handheld	Dr. Jose N. Rodriguez Memorial Hospital	1 Digital Base 1 Digital Mobile 2 Digital Handheld	Dr. Jose R. Reyes Memorial Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld	East Avenue Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld	Las Piñas General Hospital & Satellite Trauma Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld	Lung Center of the Philippines	1 Digital Base 1 Digital Mobile 2 Digital Handheld	National Children's Hospital	1 Digital Base 1 Digital Mobile
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		National Center for Mental Health	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		National Kidney and Transplant Institute	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Philippine Children's Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Philippine Heart Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Philippine Orthopedic Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Quirino Memorial Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Research Institute for Tropical Medicine	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Rizal Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		San Lazaro Hospital	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		San Lorenzo Ruiz Women's Hospital	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Tondo Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		Valenzuela Medical Center	1 Digital Base 1 Digital Mobile 2 Digital Handheld
		<b>SUBTOTAL</b>	<b>80</b>

## II. Regional

Hospital/Office	Total Active Units
National Capital Regional Office	1 Digital Base 1 Digital Mobile 2 Digital Handheld
Regional Office III	1 Analog Base 1 Analog Mobile 2 Analog Handheld
Jose B. Lingad Memorial General Hospital	1 Analog Base Radio
Dr. Paulino J. Garcia Memorial Research and	1 Analog Base Radio



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<b>VI.</b>	<b>Schedule and site of Delivery</b>	The Rented units shall be delivered at DOH HEMB Bldg. 12, San Lazaro Compound, Sta. Cruz, Manila within Fifteen (15) calendar days from the receipt of Notice to Proceed (NTP) and will run for 12 months.														
<b>VII.</b>	<b>Duration of Engagement /Project</b>	Upon issuance of Notice to Proceed (NTP) and will run for 12 months.														
<b>VIII</b>	<b>Warranties of the Subscriber</b>	<p>A. The Service Provider warrants that it shall conform strictly to all the terms and conditions of this Terms of Reference.</p> <p>B. The Service Provider shall not assign, transfer, pledge, nor subcontract any part or interest therein.</p> <p>C. The Service Provider in the performance of its services shall secure, maintain at its own expense all registration, licenses or permits required by National or Local Laws and shall comply with the rules, regulations and directives of Regulatory authorities and Commissions. The Service Provider undertakes to pay all fees or charges payable to any instrumentality of government or to any other duly constituted authority relating to the use or operation of the installation.</p> <p>D. The Service Provider must ensure that no Interference of radio frequencies shall be encountered to any existing radios utilized by DOH – HEMB within the area of operations.</p>														



<b>IX.</b>	<b>Terms of Payment</b>	<p>A. Payment shall be made on Monthly Basis from the submission of the documentary requirements such as but not limited to the following based on existing accounting and auditing law, rules and regulations:</p> <p>1. Charge Invoice/Billings/Statement of Accounts.</p> <p>B. The service provider shall be paid under the following manner;</p> <p>1. <b>ANALOG</b> Monthly subscription fees per unit (regardless of model and location of radios.)</p> <p>2. <b>DIGITAL</b> Monthly rental of units and subscription fees per unit (regardless of model and location of radios)</p>
<b>X</b>	<b>Approved Budget</b>	Total cost for this is Three Million Five Hundred Thousand Pesos (P3,500,000.00)
<b>XI</b>	<b>Similar Contract</b>	Communication Services

\_\_\_\_\_  
Signature over Printed Name  
*[date of signing]*

In the capacity of : *[title or other appropriate designation]*  
Duly authorized to sign bid for and on behalf of : *[Name of Company]*  
*[Complete office address]*  
*[Contact No.]*  
*[Email Address]*  
*[Fax No.]*

# Technical Specifications

Republic of the Philippines Department of Health <b>TECHNICAL SPECIFICATIONS</b>									
<b>Lot No. 1</b>	Rental of Trunked Radio Communication System (Portable, Mobile and Base Radios)	<b>Qty / Unit</b>	1 Lot						
Name of Manufacturer:		Country of Origin:							
Brand:		Model (if applicable):							
Total ABC: <b>PhP3,500,000.00</b>									
PURCHASER'S SPECIFICATION		STATEMENT-OF COMPLIANCE							
<b>I. Technical Specifications:</b>									
1. A total of <b>one hundred nine (109) units DIGITAL RADIOS</b> (units with system subscription within Metro Manila) and <b>sixteen (16) existing ANALOG RADIOS</b> (system subscription only outside Metro Manila) will be provided by Service provider.									
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4. Parts such as Cable, Battery, antenna and other parts of Motorola analog radio units that may deemed necessary for its functionality due to repair and migration will be shouldered by the provider.									
5. Additional interlink fee for outside Metro Manila coverage on top of the existing interlink fee (regardless of number of radio units) not exceeding Five thousand pesos (P5,000.00) shall be charged to HEMB fund.									
6. The end-user shall have the right to terminate the Contract anytime once the Head of Agency, office or group submits reports to the Health Emergency Management Bureau regarding their dissatisfaction once coverage is not met by the service provider, detrimental to public service. However dissatisfaction complaint shall be validated by both									

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**TECHNICAL SPECIFICATIONS**

<b>Lot No. 1</b>	Rental of Trunked Radio Communication System (Portable, Mobile and Base Radios)	<b>Qty / Unit</b>	1 Lot
Name of Manufacturer:		Country of Origin:	
Brand:		Model (if applicable):	
Total ABC: <b>PhP3,500,000.00</b>			
PURCHASER'S SPECIFICATION		STATEMENT-OF COMPLIANCE	
parties prior to termination			
<b>A. DIGITAL RADIO (UNITS + SUBSCRIPTION/SYSTEM)</b>			
<b>BASE / MOBILE RADIO</b>			
Dimension (HxWxD)	At least 60 x 147 x 200mm / 2.362 x 6.850 x 7.874 inch		
Weight	1.7kg (3.75lbs)		
<b>RECIEVER</b>		<b>800MHz</b>	
Frequency Range	851-866 MHz		
Intermodulation			
- TIA-603	75dB @ 12.5/20/25 kHz		
- ETSI	70dB @ 12.5/20/25 kHz		
Usable Sensitivity	0.3 μV/BER5%		
Selectivity			
- TIA-603	65dB @ 12.5 kHz / 75dB @ 20/25 kHz		
- ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz		
Spurious Rejection			
- TIA-603	75dB @ 12.5/20/25 kHz		
- ETSI	70dB @ 12.5/20/25 kHz		
Rated Power Output	3W		
Rated Audio Output	<3%		
Audio Response	+1~~3dB		
Conducted Spurious Emission	<-57dBm		
<b>TRANSMITTER</b>		<b>800MHz</b>	
RF Power Output	<b>VHF High Power: 5W; VHF Low Power: 1W;4</b> <b>UHF1 High Power: 3W; UHF1 Low Power: 1W UHF3 High Power: 4W; UHF3 Low Power: 1W</b>		
Emission (Conducted & Radiated)	-36dBw <1Ghz & -30dBw>1GHz		
FM Hum & Noise (Companion Receiver)	40 db @ 12.5 kHz 43 dB @ 20 kHz 45 dB @ 25 kHz <3%		
Audio Distortion Modulation Limiting	±5.0 kHz @ 25kHz		

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<b>Lot No. 1</b>	Rental of Trunked Radio Communication System (Portable, Mobile and Base Radios)	<b>Qty / Unit</b>	1 Lot
Name of Manufacturer:		Country of Origin:	
Brand:		Model (if applicable):	
Total ABC: <b>PhP3,500,000.00</b>			
<b>PURCHASER'S SPECIFICATION</b>		<b>STATEMENT-OF COMPLIANCE</b>	
<b>PORTABLE / HANDHELD RADIO</b>			
Dimension (HxWxD)	At least 125 x 55 x 37mm / 4.921 x 2.165 x 1.458 inch		
Weight	355g (0.78 lbs)		
<b>RECIEVER</b>		<b>800MHz</b>	
Frequency Range	851-870 MHz		
Intermodulation			
- TIA-603	70dB @ 12.5/20/25 kHz		
- ETSI	65dB @ 12.5/20/25 kHz		
Usable Sensitivity	0.3 µV/BER5%		
Selectivity			
- TIA-603	60dB @ 12.5 kHz / 70dB @ 20/25 kHz		
- ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz		
Spurious Rejection			
- TIA-603	70dB @ 12.5/20/25 kHz		
- ETSI	70dB @ 12.5/20/25 kHz		
Rated Power Output	0.5W		
Rated Audio Output	<3%		
Audio Response	+1~-3dB		
Conducted Spurious Emission	<-57dBm		
<b>TRANSMITTER</b>		<b>800MHz</b>	
RF Power Output	VHF High Power: 50W VHF Low Power: 25W UHF1 High Power: 45W UHF1 Low Power: 25W UHF3: 25W		
Frequency Range	806-825 MHz		
Emission (Conducted & Radiated)	-36dBw <1Ghz & -30dBw >1GHz		
FM Hum & Noise (Companion Receiver)	40 db @ 12.5 kHz 43 dB @ 20 kHz 45 dB @ 25 kHz <3%		
Audio Distortion Modulation Limiting	±5.0 kHz @ 25kHz		
<b>B. ANALOG RADIO (SUBSCRIPTION/ SYSTEM ONLY)</b>			
<b>II. Roles and Responsibilities of the Service Provider:</b>			

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<b>Lot No. 1</b>	Rental of Trunked Radio Communication System (Portable, Mobile and Base Radios)	<b>Qty / Unit</b>	1 Lot
Name of Manufacturer:		Country of Origin:	
Brand:		Model (if applicable):	
Total ABC: <b>PhP3,500,000.00</b>			
PURCHASER'S SPECIFICATION		STATEMENT-OF COMPLIANCE	
1. Ensure that the trunked radio system and radio units are registered by the National Telecommunications Commission (NTC) and must have an authorization to operate and to charge rate; a copy of registration shall be submitted upon delivery of the units.			
2. Ensure availability and compatibility of trunked radio system with the existing ANALOG radio units of the end user.			
3. Ensures the functionality and operational worthiness of the radio units and system.			
4. Provides a common radio frequency to inter-link all emergency response units in case of emergencies.			
5. Performs migration, re-programing, calibration and tuning in of the radio units to the proposed network as needed during the contract period.			
6. Assists DOH in setting up an operational radio communication base (Hub) in areas of engagement.			
7. Conducts training of radio users on proper use of the radio units			
8. Conducts annual preventive maintenance services of all existing radio units			
9. Upon diagnosis by service provider that the unit is not functional. Service provider should provide backup/ service unit/s ( <b>Digital Units Only</b> ) within ten (10) days (regardless of location / site which shall continue even when the contract has been extended.			
10. Identifies blind spots in the areas of engagement and provides solutions / assistance to the end user.			
11. Provides free pick-up and delivery of repaired / unit replacement.			
12. Provides free service on transfer or relocation of radio base / mobile units to a new location.			
13. Conducts redesign / upgrade of DOH radio communication system for maximum and efficient signal strength.			
14. Provides twenty-four (24) hours availability of trunked radio communication system and technical support.			

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Name of Manufacturer:		Country of Origin:	
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Total ABC: <b>PhP3,500,000.00</b>			
PURCHASER'S SPECIFICATION		STATEMENT-OF COMPLIANCE	
15. Ensures availability of technical staff for the installation, test check, repair and replacement of radio units ( <b>Analog and Digital Units</b> ).			
16. Prepares and submits monthly billing statements to the DOH HEMB for payment of service fees on the first week of the succeeding month.			
17. Provides the end user a Monthly progress report for every radio unit under repair, repaired done, and report of functional units, semi-annual report of maintenance check conducted for monitoring purposes.			
18. Provides quotation of assessed Motorola Analog Radio Units that needs repair.			
19. Provides all accessories for DIGITAL radios including acoustic earpiece, knobs, antenna, dust cup, belt clip and charger adaptors for portable radios and whip antenna, palm microphone, mounting hardware, DC cable and power supply for base and mobile radios.			
20. Ensures that no other radio groups will be allowed to connect to the assigned frequency of the DOH unless given directive and approval by the Head of the Operations Center and the Office of the Director.			
<b>III. Warranties of the Subscriber:</b>			
1. The Service Provider warrants that it shall conform strictly to all the terms and conditions of this Terms of Reference.			
2. The Service Provider shall not assign, transfer, pledge, nor subcontract any part or interest therein.			
3. The Service Provider in the performance of its services shall secure, maintain at its own expense all registration, licenses or permits required by National or Local Laws and shall comply with the rules, regulations and directives of Regulatory authorities and Commissions. The Service Provider undertakes to pay all fees or charges payable to any instrumentality of government or to any other duly constituted authority relating to the use or operation			

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<b>Lot No. 1</b>	Rental of Trunked Radio Communication System (Portable, Mobile and Base Radios)	<b>Qty / Unit</b>	1 Lot
Name of Manufacturer:		Country of Origin:	
Brand:		Model (if applicable):	
Total ABC: <b>PhP3,500,000.00</b>			
PURCHASER'S SPECIFICATION		STATEMENT-OF COMPLIANCE	
<p>of the installation.</p> <p>4. The Service Provider must ensure that no Interference of radio frequencies shall be encountered to any existing radios utilized by DOH-HEMB within the area of operations.</p>			
<p><b>IV. Additional Requirements in Technical Specifications, arranged, numbered, and tabbed as enumerated below:</b></p> <ol style="list-style-type: none"> <li>1. Valid and current National Telecommunications Commission (NTC) License to Operate.</li> <li>2. Certificate for Handheld Radio Frequency issued by NTC.</li> <li>3. The bidder shall submit any of the following whichever is applicable: <ol style="list-style-type: none"> <li>a. If the bidder is a manufacturer, certificate that the bidder manufactures the products/item; or</li> <li>b. If the bidder is an Exclusive/Authorized Distributor or Dealer of the products/items, Certificate or Contract from the manufacturer or importer must be provided as proof that the bidder is an Exclusive/Authorized Distributor or Dealer of the products/items; or</li> <li>c. If the bidder is an agent of the exclusive distributor or dealer, the following must be provided: <ol style="list-style-type: none"> <li>i. Certificate or Distributor/Dealership Agreement by the Manufacturer with the distributor or dealer; and</li> <li>ii. Certificate or Contract/Dealership Agreement between the distributor/dealer and the bidder.</li> </ol> </li> </ol> </li> <li>4. Original brochure or downloaded from the internet and other manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate for cross-referencing statement of compliance to the technical specification in accordance to what is indicated in 2nd page of Section VII. Technical Specifications of the Bidding Documents.</li> <li>5. Sworn Statement <i>using the prescribed form.</i></li> </ol>			

Signature over Printed Name

*[date of signing]*

In the capacity of:

Duly authorized to sign bid for and on behalf of:

*[title or other appropriate designation]*

*[Name of Company]*

*[Complete office address]*

*[Contact No.]*

*[Fax No.]*

*[Email Address]*