## **BIDDING DOCUMENTS**

# SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM FOR THE PHILIPPINE NATIONAL POLICE

**PUBLIC BIDDING NO: 21-030-10** 

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# Glossary of Acronyms, Terms, and Abbreviations

**ABC** –Approved Budget for the Contract.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**CDA** - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP - Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

**DDP** – Refers to the quoted price of the Goods, which means "delivered duty paid."

**DTI** – Department of Trade and Industry.

EXW - Ex works.

FCA – "Free Carrier" shipping point.

**FOB** – "Free on Board" shipping point.

**Foreign-funded Procurement or Foreign-Assisted Project**—Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**Framework Agreement** – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as "Call-Offs," are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

**GFI** – Government Financial Institution.

**GOCC** –Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

NGA – National Government Agency.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**Supplier** – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

**UN** – United Nations.

## Section I. Invitation to Bid

## INVITATION TO BID FOR THE

## SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF

DIGITAL RADIO SYSTEM FOR THE PHILIPPINE NATIONAL POLICE

#### PUBLIC BIDDING NO. 21-030-10

FUNDING SOURCE: GAA 2015 AND GAA 2018

1. The **PROCUREMENT SERVICE** invites PhilGEPS registered suppliers to bid for the following items in accordance with the provisions of the Revised IRR of R.A. 9184:

Lot No.	Quantity	Item/Description	Approved Budget for the Contract	Price of Bid Documents	Delivery Period
1	1 lot	SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM	₱439,642,186.00	₱44,000.00	Please refer to Section VI. Schedule of Requirements

Bidders should have completed, within *five* (5) years prior to the date of submission and receipt of bids, a contract similar to the Project.

2. The summary of the bidding activities is as follows:

Advertisement/Posting of Invitation to Bid	March 3, 2021
Issuance and Availability of Bid Documents	March 3, 2021
Pre-Bid Conference	March 11, 2021; 10:00 A.M.
Last day of Submission of Written Clarification	March 15, 2021
Last day of Issuance of Bid Bulletin	March 18, 2021
Deadline for Submission	March 25, 2021; 10:00 A.M.
Opening of Bids	Immediately after the Deadline of Submission of Bids

- 3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the "Government Procurement Reform Act".
- 4. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of

the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183 and subject to Commonwealth Act 138.

5. Interested bidders may obtain further information from the Procurement Service and inspect the Bidding Documents at the address given below during office hours.

A complete set of Bidding Documents may be acquired by interested Bidders from the PS Cashier's Office and upon payment of a nonrefundable fee in amounts pursuant to the Schedule.

It may also be downloaded free of charge from the website of the Procurement Service – DBM (PS-DBM), provided that Bidders shall pay the nonrefundable fee for the Bidding Documents not later than the submission of their bids.

- 6. The PROCUREMENT SERVICE will hold a Pre-Bid Conference on 11 March 2021; 10:00

  A.M. which shall be open to all interested parties. Pursuant to the General Community Quarantine and strict implementation of physical distancing due to the pandemic, the scheduled meeting may be accessed thru this link: <a href="https://meet.google.com/bor-fmmo-mwe">https://meet.google.com/bor-fmmo-mwe</a> for online access via Google Meet.
- 7. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be conducted on <u>25 March 2021</u>; <u>10:00 A.M.</u> at the Bidding Room, Conference Room, Procurement Service, Cristobal St., Paco, Manila. Pursuant to the <u>General Community Quarantine</u> and strict implementation of physical distancing due to the pandemic, the scheduled meeting may be accessed thru this link: <a href="https://meet.google.com/dyu-bvxp-eai">https://meet.google.com/dyu-bvxp-eai</a> for online access via Google Meet. Bids will be opened in the presence of the Bidders' representatives who choose to attend the opening. Late bids shall not be accepted. Unsealed or unmarked bid envelopes shall also be rejected.

- 8. Bidders shall drop their duly accomplished eligibility requirements, technical and financial proposals in two separate sealed envelopes in the designated bid box located at the 2<sup>nd</sup> Floor of the Procurement Service.
- 9. The PROCUREMENT SERVICE reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.
- 10. For further information, please refer to:

Bids and Awards Committee X
Procurement Service
RR Road, Cristobal St., Paco, Manila
8290-6300 loc.8032
pd3@ps-philgeps.gov.ph

SGD. **ENGR. JAIME M. NAVARRETE JR**Chairperson, Bids and Awards Committee

## Section II. Instructions to Bidders

#### 1. Scope of Bid

The Procuring Entity, *Procurement Service - DBM* wishes to receive Bids for the *Supply*, *Delivery*, *Design*, *Installation*, *Programming*, *Testing*, *Training* and *Commisioning* of *Digital Radio System for the Philippine National Police* under a RA 9184, with Public Bidding No. 21-030-10.

The Procurement Project (referred to herein as "Project") is composed of **one** (1) **lot**, the details of which are described in Section VII (Technical Specifications).

#### 2. Funding Information

- 2.1. The GAA through the source of funding as indicated below for 2015 and 2018 in the amount of 439,642,186.00
- 2.2. The source of funding is:

Philippine National Police Funds

#### 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

#### 4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

#### 5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

- 5.2. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
  - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
  - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
  - iii. When the Goods sought to be procured are not available from local suppliers; or
  - iv. When there is a need to prevent situations that defeat competition or restrain trade.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No. 9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

#### 6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

#### 7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

7.2. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

#### 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address as indicated in paragraph 6 of the **IB**.

#### 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

#### 10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII** (Checklist of Technical and Financial Documents).
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within *five* (5) *years* prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

#### 11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII** (Checklist of Technical and Financial Documents).
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

#### 12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
  - a. For Goods offered from within the Procuring Entity's country:
    - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
    - ii. The cost of all customs duties and sales and other taxes already paid or payable;
    - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
    - iv. The price of other (incidental) services, if any, listed in e.
  - b. For Goods offered from abroad:
    - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
    - i. The price of other (incidental) services, if any, as listed in **Section VII** (**Technical Specifications**).

#### 13. Bid and Payment Currencies

- 13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 13.2. Payment of the contract price shall be made in:
  - a. Philippine Pesos.

#### 14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *April 4, 2021 (120 calendar days from the opening of bids)*]. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

#### 15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

#### 16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB** 

#### 17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

#### 18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

#### 19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "passed," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

- 19.3. The descriptions of the lots or items shall be indicated in **Section VII** (**Technical Specifications**), although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items that shall be awarded as one contract.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

#### 20. Post-Qualification

20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

#### 21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

## Section III. Bid Data Sheet

## **Bid Data Sheet**

ITB Clause					
5.3	For this purpose, contracts similar to the Project shall be:				
	a. Contracts similar to those classified as Radio Communication Equipment.				
	b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.				
7.1	Subcontra	cting is not allowed.			
12				Warehouse Bicute ercial Terms (INCO	
14.1		ecurity shall be in tring forms and amou		Securing Declarati	on, or any of the
	Item No.	Item/Description	Amount Cash, Cashier's / Manager's Check, Bank Draft/ Guarantee/ Irrevocable Letter of Credit (2%)	Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5%)	Bid Securing Declaration (Pursuant to GPPB Resolution No. 03-2012
	1	SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM	₱8,789,243.72	₱21,982,109.3	Please see Section VIII attached as Annex "H"
15	Each Bidder shall submit one (1) original and one (1) copy of the first and second components of its bid.  The duplicate- <i>i.e. copy 1</i> , must include the same documents as that of the original set of documents. In case, however, a bidder opts to submit cash as bid security, copy 1 need not contain photocopies of the same.				

19.3	The lots and	l references are:		
	Item No.	Quantity	Item/Description	Approved Budget for the Contract
	1	1 Lot	SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM	₱439,642,186.00

20.2 Documents, licenses and permits required.

For purposes of Post-qualification the following document(s) shall be required:

- 1. Income Tax Returns for year 2019 (BIR Form 1701 or 1702).
- 2. Latest Value Added Tax Returns (Forms 2550M and 2550Q) or Percentage Tax Returns (Form 2551M). For this requirement, covering the months of August 2020 to January 2021.

The income tax and business tax returns stated above should have been filed through the Electronic Filing and Payment System (EFPS).

- 3. Proof of completion of the single largest contract as identified in the Statement of Single Largest Contract, which shall be copy of any verifiable document(s) such as but not limited to the following: (a) Contract/s or Purchase Order/s; (b) corresponding Sales Invoice/s; (c) Official Receipt/Cash Receipt/Collection Receipt; and (d) Certificate of Satisfactory Completion.
- 4. Submission of proof of evidence as proof of compliance with the bidder's actual offer, if applicable.

In the column "Bidder's Compliance", the bidder must state "comply" against each of the individual parameters of each specification corresponding to performance parameter of equipment offered. Statement of "comply" must be supported by evidence in a bidders bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's or distributor's un-amended sales literature, unconditional statements or specification and compliance issued by the manufacturer or distributor, samples, independent test data etc., as appropriate.

5. Updated PhilGEPS Certificate of Registration (Platinum Membership), in the event that the PhilGEPS Certificate and the annexes submitted during Opening of Bids is not updated.

The Following requirement in the Terms of Reference should be submitted together with the above items:

- 6. The bidder/supplier must be the authorized distributor/representative of the manufacturer in the Philippines supported by a duly stamped and sealed certification from the Original Equipment Manufacturer;
- 7. The bidder/supplier must have at least five local personnel qualified and trained

to install, repair and maintain the proposed DMR supported by a duly stamped and sealed training certificate from the manufacturer; 8. Must submit a written a proof that their company has at least five years of experience in the supply, installation, and commissioning of two-way radio communication system that is similar to the proposed radio system; 9. Must submit a Radio Dealer's Permit issued by the National telecommunication Commission (NTC); 10. Must submit the list of radio communications systems installed and or maintained within the last five years of establishment of their company; 11. Must have at least an authorized service center in Luzon, Visavas and Mindanao duly certified by the manufacturer: 12. The foreign manufacturer must submit a proof of local representative office in the Philippines; 13. Must submit a third party certification that the manufacturer brand is at least ten years existence in the Philippine market; 14. Must submit a copy of the contractor's authenticated Philippine Contractors Accreditation Board (PCAB) License with Specialization on Communication Facilities (SCF); 15. Must submit a duly stamped and sealed certification from the manufacturer stating that the availability of spare parts for all proposed equipment shall be a for a period of at least ten years from the date of final acceptance; 16. The bidder must submit a certification that the equipment being offered is NTC type approved; 17. Must submit a certification that all equipment being offered are Brand New. 18. Must submit a proposed Project Schedule and Methodology for PNP's review and approval; N.B. Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies from the original. 21.1 1. Twenty (20) sets of service manuals for the procured DTRS consisting a. Detailed Technical manual for each type of equipment containing functional diagrams and description. b. Installation Procedure: c. Commissioning Procedures; d. operation procedure; and e. Troubleshooting and Maintenance Procedures. 2. The supplier shall issue Certification of Non-Disclosure for the implementation of the project.

Section	IV.	General	<b>Conditions</b>	of	Contract
Section	_ , .	Some		$\boldsymbol{\sigma_{\!J}}$	

#### 1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC).** 

#### 2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

#### 3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

#### 4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project or Framework Agreement specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the SCC, Section IV (Technical Specifications) shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

#### 5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

#### 6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract	Section	V.	<b>Special</b>	<b>Conditions</b>	of	Contract
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## **Special Conditions of Contract**

	Special Conditions of Contract			
GCC Clause				
1	The Project Sites are:			
	LSS Warehouse Bicutan Taguig Metro manila			
	Delivery and Documents –			
	For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:			
	[For Goods supplied from abroad, state:] "The delivery terms applicable to the Contract are DDP delivered [indicate place of destination]. In accordance with INCOTERMS."			
	[For Goods supplied from within the Philippines, state:] "The delivery terms applicable to this Contract are delivered [indicate place of destination]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."			
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).			
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is <i>PMAJ</i> . <i>Rizalou Perlas or PMAJ</i> . <i>Delmar Balinang</i>			
	Incidental Services –			
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:			
	a. performance or supervision of on-site assembly and/or start-up of			
	the supplied Goods;			
	b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;			
	c. furnishing of a detailed operations and maintenance manual for			
	each appropriate unit of the supplied Goods;			

- d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

#### Spare Parts -

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- b. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI** (**Schedule of Requirements**) and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of three (3) months.

Spare parts or components shall be supplied as promptly as possible, but in any case, within three (3) months of placing the order.

#### Packaging -

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions

Any special handling instructions

Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

#### Transportation -

Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.

	Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.  The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the
	Procuring Entity until their receipt and final acceptance at the final destination.  Intellectual Property Rights —
	The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
2.2	Payment will be made upon complete acceptance of the project.
4	Not Applicable

## Section VI. Schedule of Requirements

Lot No.	Qty	Item/Description	Delivery period
1	1 lot	SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM	Within Three Hundred Sixty (360) Calendar Days from the effective date indicated in the Notice to Proceed

I hereby commit to comply a above stated schedule.	nd deliver all the above requirements i	n accordance with the
Name of Company	Signature Over Printed Name of Authorized Representative	Date

## Section VII. Technical Specifications

LOT NO. 1		SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM
QUANTITY	:	1 Lot
APPROVED BUDGET PER UNIT	:	
APPROVED BUDGET FOR THE CONTRACT	:	P 439,642,186.00

ITEM DESCRIPTION	BIDDER'S STATEMENT OF COMPLIANCE
RADIO COMMUNICATION SYSTEM conforms to Terms of Reference and NAPOLCOM Resolution.	
*please see attached Annex F for the complete sets of Terms of Reference	
HANDHELD RADIO TRANSCEIVER	Brand:
conforms to NAPOLCOM Resolution No. 2015-424 & 2016-815. See Attached Annex A	Model:
BASE RADIO TRANSCEIVER conforms to	Brand:
NAPOLCOM Resolution No. 2015-425, 2016-813 & 2018-588. See Attached Annex B	Model:
MOBILE RADIO TRANSCEIVER conforms	Brand:
to NAPOLCOM Resolution No. 2015-426 & 2016-814. See Attached Annex C	Model:
DIGITAL TRUNKED RADIO SYSTEM	Brand:
conforms to NAPOLCOM Resolution No. 2015-425 & 2016-803. See Attached Annex D	Model:
DIGITAL CONVENTIONAL RADIO	Brand:
REPEATER conforms to NAPOLCOM Resolution No. 2016-806. See Attached Annex E	Model:

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company	Signature Over Printed	Date
	Name of Authorized	
	Representative	

-Anney A

Republic of the Prolippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
DILG-NAPOLCOM Center
NAPOLCOM Building, EDSA oor Gusson Ave.
Weel Triangle, Quezon City

RESOLUTION NO. 2016-815

APPROVING THE PNP-UESB RESOLUTION NO. 2016-110 AMENDING NAPOLCOM RESOLUTION NO. 2015-424 ON THE STANDARD SPECIFICATIONS FOR DIGITAL HANDHELD RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY

WHEREAS, Section 14, Paragraphs (i) and (m) of Republic Act No. 6975 as amended by Section 5, Sub-Paragraphs (5) and (8) of the Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraklry Commission, for insignis of ranks, awards and medals of honor";

WHEREAS, pursuant to the aforecited legal prescription, the PNP through Uniform and Equipment Standardization Board (UESB) Resolution No. 2016-110, dated October 18, 2016, had favorably submitted and indersed the proposed amendment to the standard specifications for Digital Handheld Radio Transceiver under NAPOLCOM Resolution No. 2015-424, for consideration and approval by the Commission;

WHEREAS, the proposed amendments to the standard specifications of Digital Handheld Radio Transceiver, particularly the parameter requirement on Sensitivity, will enable the participation or conformity of different product brands of manufacturers;

WHEREAS, the PNP Uniform and Equipment Standardization Board (UESB) has certified that the proposed amendment to the standard specifications for Digital Handheld Radio Transceiver are not tailored-fit specifications to any particular commercial brand of product in the market:

WHEREAS, after thorough review and evaluation, the Commission has determined that the amendment to the Digital Handheld Radio Transceiver standard specifications are in order and conform with the requirements of Republic Act No. 6975, as amended by RA No. 8551 and its Implementing Rules and Regulations, and all existing policies and issuances of the Commission to meet the requirements of the PNP;

NOW, THEREFORE, the Commission, in the exercise of its statutory powers to administer and control the PNP, HAS RESOLVED TO APPROVE, AS IT HEREBY APPROVES, the PNP-UES8 Resolution No. 2016-110, dated October 18, 2016, amending NAPOLCOM Res. No. 2015-424 on the standard specifications for Digital Handheid Radio Transceiver, to read as follows:

III.RECEIVER:

D. Sensitivity

: 0.30 microvolt, max

APPROVING THE PAPAGES RESOLUTION HE COST-OF TO ARREST HAS DESCRIBED FOR SOUTH HE STATE OF THE ST

APPROVED this 2011 day of DECEMBER 2018 in Quezon City, Metro Manta, Philippines.

ISMAEL D. SUENO.

ATTY. ROSELIO T CASURAO
Commissioner
Vibe-Cheirman and Executive Officer

ZENONIDA F. BROSAS Commissioner

JOB M MANSSAITE Commissioner

FELIZARDOM, SERAPIO, JR.

RONALDAN DELA ROSA Commissioner

Attested by:

ADELMALYN A. MUNIEZA Ohiet, Secretarias

## Republic of the Philippines Department of the Interior and Local Government NATIONAL POLICE COMMISSION Queson City

RESOLUTION No. 2015-424

#### PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL HANDHELD RADIO TRANSCEIVER

WHEREAS, Section 14, paragraphs (i) and (m) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor";

WHEREAS, pursuant to the aforecited legal prescription, the PNP Uniform and Equipment Standardization Board (UESB) Resolution No. 2016-072, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Handheld Radio Transcriver:

WHEREAS, the Commission has determined that the item description "Compatibility" requirement is removed since the digital radio transceiver system is not compatible with the existing Motorola SmartNet II repeater and analog system but can be interoperable using integrator or gateway;

WHEREAS, the Commission has furthermore determined that the requirement for Warranty, Trainings and other requirements be removed since these are not considered specification per se but should rather be appropriately referred to in the Terms and Conditions during the procurement thereof;

WHEREAS, the Standard Specifications for Digital Handheld Radio Transceiver is not a tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

WHEREAS, after thorough review and evaluation, the Standard Specifications for Digital Handheld Radio Transceiver, is found in order to conform with the requirements of Republic Act No. 6975, as amended by Republic Act No. 8551 and its Implementing Rules and Regulations (IRR), all existing policies and issuances of the Commission to meet the requirements of the PNP;

Anantocus Pourribing the Scondard Specification for Digital Handhold Radio Transceiver Page 2 of 3 pages

NOW THEREFORE, the Commission in the exercise of its statutory powers to administer and control the PNP, HAS RESOLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Standard Specifications for Digital Handheld Radio Transceiver, to read as follows:

#### I. GENERAL

A. Keypad

Full Keypad (Alpha-Numeric)

B. Channel/Mode Capability

16 Talkgroups Channel Assignment, min.

C. Data Speed

9.6 Klops, min.

#### II. TRANSMITTER

A. Frequency Range

806-824 MHz 1 warr, min.

B. RF Output Power C. Channel Spacing

Narrowband Compliant

D. Frequency Stability

±0.0002%, max.

#### III. RECEIVER

A. Frequency Range

851-870 MHz

B. Channel Spacing

Narrowband Compliant

C. Frequency Stability

±0.0002%, max.

D. Sensitivity

0.25microvolt, max.

#### IV. FEATURES

- A. Multi-Site Capability
- B. Gold-Plated Battery Contacts or equivalent
- C. Page/Call Alert
- D. Private/Individual Call
- E. Talkgroup/Group Call
- F. Multigroup/Conference/Group Call .
- G. Out-of-Range Indicator
- H. Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- I. Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)
- J. Call ID Display
- K. Telephone Interconnect Capability
- L. Vehicular Adapter Operation Capable
- M. Encryption (Built-in, can be enabled and disabled)
- N. LCD Display (4 lines or more)
- O. Global Positioning Capable
- P. Data Inquiry System Capable
- Q. Automatic Vehicular Locator System Capable
- R. Supports Direct Data Connection
- S. Background Noise Cancellation (latest Version)
- T. 20. Military Standard 810C. D, E, F and IP 67 or latest compliant

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Resolution Frenching the Strodard Specifications for Digital Health of Balls Textspotives Page 3 of 3 pages

#### V. ACCESSORIES

- A. Battery
  - 1) Lithium Ion or latest battery composition
  - 2) 1800 mAH (minimum)
  - 3) Extra Battery --
- B. Flexible Antenna
- C. Belt Clip
- D. Single Unit Battery Charger, 220 VAC, 60Hz
- E. Appropriate Connection Cables
- F. Audio Accessories
- G. Case Protector

#### VI. MUST PASS THE PNP TEST AND EVALUATIONS

APPROVED this 28th day of AUGUST 2015, in Quezon City, Metro Manila, Philippines.

Chairman, NAPOLCOM

EDUARDO U. ESCUETA

Commissioner-

Vice Chairman and Executive Officer

PALMERA, DPA, CSEE

hmmissioner

CONSTANCIA DE GUZMAN, Ph.D.

ALEJANDRO 5. URRO

Commissioner

RICARDO CMARQUEZ Commissioner

Attessed by:

ADELMALYN A. MIZNEZA Chlef/Secretariat

Republic of the Philippines
Depart of the Interior mad Local Government
NATIONAL POLICE COMMISSION
DILG-NAPOLCOM Center
NAPOLCOM Building, EDSA cor, Quezon Avenue.
West Triangle, Quezon City

# RESOLUTION NO. 2018-588

APPROVING THE AMENDMENT TO NAPOLCOM RESOLUTION NO. 2015-425, ON PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANCEIVER'S ACCESSORIES ON ANTENNA MAST

WHEREAS, Section 14, Paragraphs (i) and (m) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime provestion, and crime reporting as well as the prescribe minimum standards for arms, equipment, and uniforms, and after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of bonor;

WHEREAS, pursuant to the aforecised legal prescription, the PNP Uniform and Equipment Standardization Board (UESB) Resolution No. 2014-078, has recommended to the Commission for the approval the Proposed Minimum Specifications for Digital Base Radio Transceiver.

WHEREAS, the Commission has determined that the item description on the secessories for the antenna mast "Length: Eighty (80) feet" requirement is removed since the height of the antenna varies depending on the location where the antenna mast will be installed;

WHEREAS, the Standard Specifications for Digital Base Radio Transceiver is not a tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

WHEREAS, after thorough review and evaluation, the Commission has determined that the amendment to the Digital Base Radio Transceiver standard specifications are in order and conform with the requirements of Republic Act No. 6975, as amended by RA No. 8551 and its implementing Rules and Regulations, all existing policies and issuances of the Commission to meet the requirements of the PNP;

NOW, THEREFORE, the Commission, in exercise of its statutory powers to administer and control the PNP, HAS RESOLVED TO APPROVE, AS IT HEREBY APPROVES, the amendment to NAPOLCOM Resolution No. 2015-425 on the minimum

standard specifications for Digital Base Transceiver Radio's accessories and the length of antenna mast, to read as follows:

#### V. ACCESSORIES

#### C. Antenna Mast

- 1) Material: G.I. Pipe Schedule 40 with 10mm deformed bar step
- 2) Diameter: 2 1/3 inches
- 3) For Guy Wire: G.I. Wire # 10
- 4) Turn Buckle 3/8"
- 5) Base Plate Iron Sheet (12"x12"x14")

APPROVED this 23rd day of OCTOBER 2918 occon City, Metro Manila,

Philippines.

USEC EDUARBO M. AÑO Chairman, NABOLCOM

ATTY. ROGELIO, T. CASURTO, **Commissioner** 

Chairman and Executive Officer

FELIZARIO M. SERAPIO, JR

Commissioner

ZENONIDA F. BROSAS Commissioner

OSEAR D. ALBAYALDE Ex-Officio Commissioner

Attested by:

ELVIRA N. BA

Acting Chief, Secretariat

Reyable of the Philopinos
Department of the Interior and Local Government
MATIONIAL POLICE COMMISSIONS
DRIGHTAPOLOGII Cambridge
Neurol Cold Building, 2008, etc. Guidon PrioWhat Triangle, Guidon City

RESOLUTION NO. 2014-813

APPROVING THE PHP-UESS RESOLUTION NO. 2014-111 AMENDING WAPOLCOM RESOLUTION NO. 2015-425 ON THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCENER PARTICULARLY ON SENSITIVITY

WHEREAS, Section 14. Peragraphs (i) and (m) of Republic Act No. 6675 as emended by Section 6, Sub-Paragraphs (3) and (8) of the Republic Act No. 6681, empowers the Communion to "approve or modify plans and programs on education and eraning, logistical requirements, communications, records, information system, orims laboratory, crime percention and crime reporting as well at prescribe minimum standards for some agripment and uniforms and, effect consultation with the Philippine Herakity Commission, for insignite of ranks, awards and madels of honor";

WATEREAB, pareness to the stoccted legal prescriptor, the PNP through Uniform and Soutpment Standardization Board (USSB) Resolution to. 2016-111, desert October 18, 2015, but feverably submitted and independ the proposed americans to the standard specifications for Digital Secs Radio Transcriper under NAPCLOCAL Resolution No. 2015-425, for consideration and approval by the Commission;

WHEREAS, the proposed emendments to the standard specifications of Digital handbold Radio Transpolver, particularly the parameter requirement on Sensitivity, will enable the participation or conformity of different product boards of manufacturant;

WHEREAS, the PRP Uniform and Equipment Standardization Board (UESB) has consist that the proposed assentinent to the standard specifications for Orginal Base findio Transceiver are not highward-fit specifications to any particular communical brand of product in the market!

WHIEREAS, siler thorough review and evaluation, the Commission has deminished that the amendment to the Digital Boso Radio Transceiver standard specifications are in order and conform with the requirements of Republic Act No. 6975, as amended by RA No. 6551 and he implementing Rules and Regulations, and all adding polices and issuances of the Commission to make the requirements of the PNP:

#### D.RECEMER:

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APPROVED this  $\frac{3958}{2}$  , day of  $\frac{92038965}{2}$  , 2016 in Guezon Cily, Metro Matula, Philopones.

TOWARL D. SUEHBART Challengen. HAROLCOM

ATTY. ROBELIOF. CASURGO Chemicalconfr Vess Chemical and Executive Office(

ZENDINDA F. BROSAS.
Commissioner

STREDMAN ON BOX

FELIZARDOM, SERAPIO, S.

Comprissioner

RONALDANDELA ROSA Compessioner

Alteided Eg.

ADELMALYN A. MUNIEZA Chak. Secretaria)

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# Republic of the Philippines Department of the Insertor and Local Government NATIONAL POLICE COMMISSION Cotton City

RESOLUTION No. 2015-425

# PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCRIVER

WHEREAS. Section 14, paragraphs (i) and (in) of Republic Act No. 6975, as amended by Section 5, paragraphs (s), sub-paragraphs (5) and (8) of Republic Act No. 2551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime inheratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, swards and metals of honor";

WHEREAS, pursuant to the aforecised legal prescription, the PNP Uniform and Equipment Standardization Board (UESE) Resolution No. 2014-078, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Base Radio Transcriver;

WHEREAS, the Commission has determined that the item description "Compatibility" requirement is removed times the digital radio transcenses system is not compatible with the existing Motorola SmartNet II reporter and analog system but can be interoperable using integrator or gaptivery:

WHEREAS, the Commission has flothermore determined that the requirement for Warranty, Trainings and other requirements be removed since there are not considered specification per se but abould make be appropriately referred to in the Terms and Conditions during the procurement thereof;

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wite RRAS, the Standard Specifications for Digital Base Basis Transceiver is not a miliored-fit specifications in any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

Application Provided the Secular Specification for Digital Best Ride Distriction Page 7 of 4 pages

WHEREAS, after chorough review and evaluation, the Standard Specifications for Digital Base Radio Transmitter, is found in order to conform with the requirements of Republic Act No. 6975, as aneeded by Republic Act No. 8551 and its implementing Rules and Regulations (TRR), all votating policies and issuances of the Commission to meet the requirements of the PNP.

NOW THEREFORE, the Commission in the exercise of its statumry powers to administer and control the PNP, HAS RESCLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Minimum Specifications for Digital Base Radio Transcrives, to read as follows:

#### I. GENERAL

A. Keyped (Alpha-Numersc)

B. Channel/Mode 16 Talkgroups Channel Assignment, man.

Capability

C. Data Speed 9.6 Kbps, min.

#### II. TRANSMETTER

A. Frequency Range 806-824 MHz
B. RF Output Power 10 wasts, man.

C. Channel Specing Peartowband Compliant

D. Prequency Stability #0.0002%, max.

E. Output Impedance 50 ohns

#### III. RECEIVER

A. Frequency Range 851-870 MMz

B. Channel Spacing Necrowbood Complianc

C. Frequency Stability #0,0002%, max.

D. Sensitivity 0.25microvole, max.

E. Input Impedance 50 alons

### IV. PRATURES

- A Multi-Site Capable
- Compact Microphone
- C. PC Programmable
- D. Call 1D Display
- E. Page/Call Alert
- F. Private/Individual Call
- G. Multigroup/Conference/Group Call
- H. Dur-of-Range Indicator
- Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)

Burdische Processing die Stroderd Specification de Litgins Sun Recha Transcoleur Page S of 4 pages

- K. Milhary Standard 810C, D, E, F and IF 54 or 55 or latest compliant Encryption (Built-in, can be enabled and disabled). 14. Background Noise Cancellation (latest Version) N Telephone Interconnect Capability Q. LCD Display (2 lines or more) P. Global Positioning Capable Q. Data Inquiry System Capable R. Augmentic Vehicular Lucator System Capable S. Suppores Direct Data Connection ... V. ACCESSORIES A. Regulated Power Supply with Battery Charges 1) 30 Asuperes or higher 220 VAC imput: 13.8 VDC output В. Алкения 1) Piber glass. 2) 3dB gain or higher 3) Ozoni Directional 4) 800 MHz Band С. Аптення Мак Material: G.I. Pipe Schedule 40 with 10mm deformed her step. Length: Eighty (80) feet. 3) Diameter: 2 1/2 inches 4) For Guy Wire: G.L Wire #10 Turn Buckle 3/6" 6) Bate Plate Iron Sheet (12'x12'x1/4") D. Transmission Line Cable 1) Material: Form dielectric transmission 2) Diameter: 92 inch or thicker 3) Impedance 50 ohma 4) Length: 40 meters, min.
  - E. Back-Up Battery
    11 12 VDC
    - 2) Deep Cycle
    - Reclargeable
    - 4) 100 AH
  - F-lightning Protection Industry Standards
  - G Complete Hardware Mounting
  - VI. MUST PASS THE PNP TEST AND EVALUATIONS

Successor Francishing the Junetical Specificacións the Diginal Son Radio Transcitator Suga e el e pagas

APPROVED this 28th day of AUGUST 2015, in Quezon City, Metro-Mamila, Philippenes.

MAR ROKAS TO MANAGEMENT BANK

EDUARDO U. ESCUETA

Commissioner-

Vice Chairman and Executive Officer

LUSSING TO PALMERA, DPA, CSEE

CONSTANCIA P. DE GUZMAN, Pb.D.

Operatisamer

ALEJAYDROS URAO Commissiones

RICARDO O MARQUEZ

Accessed by:

ADERMALYN A. MUNICZA Chief Sentenesse



Republic of the Philippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
DILG-NAPOLCOM Center
NAPOLCOM Building, EDSA oor, Curezon Ave,
West Triangle, Quezon City

RESOLUTION NO. 2016-814

APPROVING THE PNP-UESB RESOLUTION NO. 2016-112 AMENDING NAPOLCOM RESOLUTION NO. 2016-426 ON THE STANDARD SPECIFICATIONS FOR DIGITAL MOBILE RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY

WHEREAS, Section 14. Paragraphs (i) and (m) of Republic Act No. 6975 as amended by Section 5, Sub-Paragraphs (5) and (8) of the Republic Act No. 8551, empowers the Commission to approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor\*;

WHEREAS, pursuant to the aforecited legal prescription, the PNP through Uniform and Equipment Standardization Board (UESB) Resolution No. 2016-112, dated October 18. 2016, had favorably submitted and indorsed the proposed amendment to the standard specifications for Digital Mobile Radio Transceiver under NAPOLCOM Resolution No. 2015-426, for consideration and approval by the Commission;

WHEREAS, the proposed amendments to the standard specifications of Digital Handheld Radio Transceiver, particularly the parameter requirement on Sensitivity, will enable the participation or conformity of different product brands of manufacturers;

WHEREAS, the PNP Uniform and Equipment Standardization Board (UESB) has certified that the proposed amendment to the standard specifications for Digital Mobile Radio Transceiver are not tailored-fit specifications to any particular commercial brand of product in the market.

WHEREAS, after thorough review and evaluation, the Commission has determined that the amendment to the Digital Mobile Radio Transceiver standard specifications are in order and conform with the requirements of Republic Act No. 6975, as amended by RA No. 8551 and its implementing Rules and Regulations, all existing policies and issuances of the Commission to meet the requirements of the PNP;

NOW, THEREFORE, the Commission, in the exercise of its statutory powers to administer and control the PNP, HAS RESOLVED TO APPROVE, AS IT HEREBY APPROVES, the PNP-UESB Resolution No. 2016-112, dated October 18, 2016 amending NAPOLCOM Res. No. 2015-426 on the standard specifications for Digital Mobile Radio Transceiver, to read as follows:

III.RECEIVER:

D. Sensitivity : 0.30 microvolt, max

8.

APPROVED this 20th day of DECEMBER 2016 in Quezon City, Metro Manila, Philippines.

ISMAEL D. SUENO SICOM V

TTY. ROGELIOF CASURAD

Vice Chairman and Executive Officer

ZENONIDA F. BROSAS Commissioner

JOB W. MANGENTE

FELIZARDO M. SERAPIO, JR.

Commissioner

RONALD M. BELA ROSA Commissioner

Attested by:

AFT Rusinga ADELMALYN A. MUNIEZA Chief, Secretaria

# Republic of the Philippines Department of the Interior and Local Government NATIONAL POLICE COMMISSION Quezon City

RESOLUTION No. 2015-426

### PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL MOBILE BADJO TRANSCRIVER

WHEREAS, Section 14, paragraphs (i) and (iii) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe-minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor".

WHERRAS, pursuant to the aforecised legal prescription, the PNP Uniform and Equipment Standardization Board (UESB) Resolution No. 2014-079, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Mobile Radio Transcriver;

WHEREAS, the Commission has determined that the item description "Compatibility" requirement is removed since the digital radio transceiver system is not compatible with the existing Motorola SmartNet II repenter and analog system but can be interoperable using integrator or gateway;

WHEREAS, the Commission has furthermore determined that the requirement for Warranty, Trainings and other requirements be removed since these are not considered specification per se but should rather be appropriately referred to in the Terms and Conditions during the procurement thereof.

WHEREAS, the Standard Specifications for Digital Mobile Radio Transceiver is not a tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufactures://www.buppliers.in.the.market;

WHEREAS, after thorough review and evaluation, the Standard Specifications for Digital Mobile Radio Transceiver, is found in order to conform with the requirements of Republic Act No. 6975, as amended by Republic Act No. 8551 and its Implementing Rules and Regulations (IRR), all existing policies and insurances of the Commission to meet the requirements of the PNP;

T

Resolution Francisco (de Demise) Sancilization for Digital Mobile Bulka Francisco: 1944 Cell Leaves

NOW THEREPORE, the Commission in the exercise of its statustry powers to administer and control the PNP, IIAS RESOLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Minimum Specifications for Digital Mobile Badio Transcriver, to read as follows:

#### I. GENERAL

A. Keypad

B. Chunnel/Mode Capability

C. Data Speed.

Full Keypad (Alpha-Mumeric)

16 Talkgroups Channel Assignment, min.

9 & Kbps. min.

#### II. TRANSMITTER

A. Frequency Bange

B. RF Output Power C. Channel Specing

D. Freigiency Stability

E. Chapte Impedance

805-824 MHz

10 water, min.

Narrowhand Compliant

x0.00007%, max.

50 otoms

#### III. RECEIVER

A. Frequency Range

B. Channel Specing

C Frequency Stability

D. Sensitivity
E. Input Impedance

831-870 NO(±

Nonpeland Compliant

a0.00025s, max.

0.25microvelt, max.

50 ohms

#### IV. FEATURES

î

- A. Malti-Sine Capable.
- B. Compact Microphose
- C PC Programmable
- D. Cell ID Display
- E. Page/Call Alers
- F. Privare/Individual Cell
- G. Multigroup/Conference/Group Call
- Ji. Our-of-Range Indicator
- Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)
- K. Military Standard 810C, D. E. F and IP 54 or 35 or latest compliant
- L. Encryption (Bullt-in, can be enabled and disabled)
- 36. Background Noter Canodilation (latest Version)
- N. Telephone Interconnect Capability
- O. LCD Duptay (2 lines or more)
- P. Global Positioning Gapable
- C), Data Impory System Capable
- B. Automatic Vehicular Locatic System Capable
- 5 Supports Direct Data Connection
- T. Vehicular Adapter Operation Capable

Resolvation Processing the Standard Specializations for Digital Multile Radio Transcolver Page 3 of 3 pages

#### V. ACCESSORIES

- A. Antenna
  - 1) B00 MHz Band
  - 2) Car/Mobile Mount
- B. Appropriate ports for external accessories
- C. Complete Hardware Mounting
- D. Power Supply Plug/Connector

## VI. MUST PASS THE PNP TEST AND EVALUATIONS

APPROVED this <u>28thday of AUGUST</u> 2015, in Quezon City, Metro Manila, Philippines.

1 1 +

MAR ROXAS Chairman, NAPOLCOM

EDUARDO U. ESCUETA

Commissioner-

Vice Chairman and Executive Officer

LUSTION MAIMERA, DPA, CSER

CONSTANCIAJF. DE GUZMAN, Ph.D.

Commissioner

ALBIANDRO S. URRO

IN STREET, STR

RICARDO C MARQUEZ

Attested by:

ADELMALYN A. MUNIEZA Sher, Secretariat



Republic of the Philippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
Quezon City

RESOLUTION No. 2016-806

# PRESCRIBING THE SPECIFICATIONS FOR THE DIGITAL CONVENTIONAL RADIO REPEATER FOR DMR STANDARD

WHEREAS, Section 14, paragraphs (i) and (m) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor";

WHEREAS, pursuant to the aforecited legal prescription, the PNP through-Uniform and Equipment Standardization Board (UESB) Resolution No. 2016-108, has recommended for approval by the Commission the proposed minimum specifications for Digital Conventional Radio Repeater for Digital Mobile Radio (OMR) Standard:

WHEREAS, the Digital Conventional Radio Repeater for DMR Standard shall be upgradable to DMR Trunking (Tier III) Transceiver and will provide the PNP with advance communications equipment with enhanced capability that is attuned to the requirements of the PNP the fast changing technology in fighting terrorism and criminality;

WHEREAS, the Phitippine National Police (PNP) approved the adoption of the Digital Mobile Radio (DMR) Standard with the most cost-effective digital platform that will cater to the current and the future needs of the organization and for nationwide digital radio applications;

WHEREAS, the specifications for Digital Conventional Radio Repeater for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

WHEREAS, after thorough review and evaluation, the specifications for Digital Conventional Radio Repeater for DMR Standard are in order and conform with the requirements of Republic Act No. 6975, as amended by Republic Act No. 8551 and its Implementing Rules and Regulations (IRR), as well as all existing policies and issuances of the Commission and meet the requirements of the PNP.

Dyled Correctional R

NOW THEREFORE, the Commission in the exercise of its statutory powers to administer and control the PNP, HAS RESOLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Specifications for Digital Conventional Radio Repeater for DMR Standard, to read as follows:

#### TECHNICAL SPECIFICATIONS

140	-	
	- C155	(ERAL
100	SER	HERAL

A. Channel Capacity : 16 Channel TDMA B. Channel Access C. Frequency Stability ±0.5ppm

#### II. TRANSMITTER

A. RF Output Power : 30 watts Narrowband compliant (12.5KHz) B. Channel Specing : 50 ohms C. Output Impedance

#### RECEIVER

A. Channel Specing : Narrowbend compliant B. Maximum Receiver Sensitivity: 0.3µV @ 5%8ER C. Output Impedance : 50 ohms

#### **FEATURES** IV.

- A. Multi-site Capable via IP
- B. Remote Diagnostics via IP
- C. PC Programmable
- D. DMR Conventional and Analog Conventional mode

#### **ACCESSORIES** V.

- Regulated Power Supply with bettery charger
   1. 110-220 VAC input

  - 2. 13.8 VDC output
  - 3. Polarity reverse and over discharge protection

#### B. Antenna

- Fiber glass
- 2. 3dB gain or higher
- 3. Omni Directional
- 4. With matching Operating Frequency Band

#### C. Transmission Line Cable

- 1. Material: Foam dielectric transmission
- 2. Diameter. 1/2 inch or thicker
- 3. Impedance: 50 ohms
- 4. With connectors and installation kits

#### D. Back-Up Battery

- 1. 12 VDC
- 2. Deep Cycle
- Rechargeable
- 4. 100 AH

# E. Complete Hardware Mounting

# Must Pass the PNP Test and Evaluation

Supplied Proceding the Specifications for Ingles Connectional Radio Repeater for WAR Standard Inge S of Spages

APPROVED this 19th day of DECEMBER 2016, in Quezon City, Metro Manila, Philippines.

ISMAEL D. SUENGERS

ATTY. ROGELIO T CASURAD
Commissionel
Vice Cherman and Executive Officer

ZENONIDA F. BROSAS Commissioner

ATTY, JOB M. MANSENTE

FELIZASTOM, SERAPIO, JR.

RONALDM, DELA ROSA Commissioner

Attested by:

ADELMALYN A. MUNIEZA Chief, Secretariat

# Republic of the Philippines Department of the Insertor and Local Government NATIONAL POLICE COMMISSION Coston, City

RESOLUTION No. 2015-425

# PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCRIVER

WHEREAS. Section 14, paragraphs (i) and (in) of Republic Act No. 6975, as amended by Section 5, paragraphs (s), sub-paragraphs (5) and (8) of Republic Act No. 2551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime inheratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, swards and metals of honor";

WHEREAS, pursuant to the aforecised legal prescription, the PNP Uniform and Equipment Standardization Board (UESE) Resolution No. 2014-078, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Base Radio Transcrives;

WHEREAS, the Commission has determined that the item description "Compatibility" requirement is removed times the digital radio transcenses system is not compatible with the existing Motorola SmartNet II reporter and analog system but can be interoperable using integrator or gaptivery:

WHEREAS, the Commission has flothermore determined that the requirement for Warranty, Trainings and other requirements be removed since there are not considered specification per se but abould make be appropriately referred to in the Terms and Conditions during the procurement thereof;

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wite RRAS, the Standard Specifications for Digital Base Basis Transceiver is not a miliored-fit specifications in any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

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Appalarjan Providekty iki Paralarii Spacification for Digital Bask Rickly Distributes Page 7 of 4 pages

WHEREAS, after thorough review and evaluation, the Standard Specifications for Digital Base Badio Transmiver, is found in order to caraform with the requirements of Republic Act No. 6975, as smeaded by Republic Act No. 8551 and its implementing Rules and Regulations (TRR), all votating policies and issuances of the Commission to meet the requirements of the PNP.

NOW THEREFORE, the Commission in the exercise of its statumry powers to administer and control the PNP, HAS RESCLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Minimum Specifications for Digital Base Radio Transcriver, to read as follows:

#### I. GENERAL

A. Keyped (Alpha-Numenc)

B. Channel/Mode 16 Talkgroups Channel Assignment, man.

Capability

C. Data Speed 9.6 Kbps, min.

#### II. TRANSMETTER

A. Frequency Range 806-824 MHz
B. RF Output Power 10 wasts, man.

C. Channel Specing Parrowband Compliant

D. Prequency Stability ±0.0002%, max.

E. Output Impedance 50 ohns

#### III. RECEIVER

A. Frequency Range 351-870 MOHz

B. Channel Spacing Necrowbood Complianc

C. Frequency Statistry #0.0002%, max.

D. Sensitivity 0.25microvole, max.

E. Input Impedance 50 alons

### IV. PRÁTURES

- A Multi-Site Capable
- Compact Microphone
- C. PC Programmable
- D. Call 1D Display
- E. Page/Call Alert
- F. Private/Individual Call
- G. Multigroup/Conference/Group Call
- H. Dur-of-Range Indicator
- Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)

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- K. Milhary Standard 810C, D, E, F and IF 54 or 55 or latest compliant Encryption (Built-in, can be enabled and disabled). 14. Background Noise Cancellation (latest Version) N Telephone Interconnect Capability Q. LCD Display (2 lines or more) P. Global Positioning Capable Q. Data Inquiry System Capable R. Augmentic Vehicular Lucator System Capable S. Suppores Direct Data Connection ... V. ACCESSORIES A. Regulated Power Supply with Battery Charges 1) 30 Asuperes or higher 220 VAC imput: 13.8 VDC output В. Алкения 1) Piber glass. 2) 3dB gain or higher 3) Ozoni Directional 4) 800 MHz Band С. Аптення Мак Material: G.I. Pipe Schedule 40 with 10mm deformed her step. Length: Eighty (80) feet. 3) Diameter: 2 1/2 inches 4) For Guy Wire: G.L Wire #10 Turn Buckle 3/6" 6) Bate Plate Iron Sheet (12'x12'x1/4") D. Transmission Line Cable 1) Material: Form dielectric transmission 2) Diameter: 92 inch or thicker 3) Impedance 50 ohma 4) Length: 40 meters, min. E. Back-Up Battery ~ 1) 12 VDC
  - Deep Cycle
  - Reclargeable
  - 4) 100 AH
  - F-Mgharing-Protection—Radiumy-Seendard-
  - G Complete Hardware Mounting
  - V). MUST PASS THE PNP TEST AND EVALUATIONS

Essention Francibles the Junean Specificación de Diginé Son Radio Transition Suga 4 of 4 paper

APPROVED this 28th day of AUGUST 2015, in Quezon City, Metro-Mamila, Philippenes.

MAR ROKAS TO MANAGEMENT BANKS

EDUARDO U. ESCUETA

Commissioner-

Vice Chairman and Executive Officer

LUSTING TO PALMERA, DPA, CSEE

CONSTANCIA P. DE GUZMAN, Pb.D.

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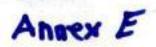
ALEJAYDROS URAO Commissiones

RICARDO O MARQUEZ

Accessed by:

ADERMALYN A. MUNICZA

Chief Secteurs:



Republic of the Philippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
Quezon City

RESOLUTION No. 2016-803

# PRESCRIBING THE SPECIFICATIONS FOR THE DIGITAL TRUNKED RADIO SYSTEM (DTRS) FOR DMR STANDARD

WHEREAS, Section 14, paragraphs (i) and (m) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to "approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor".

WHEREAS, pursuant to the aforecited legal prescription, the PNP Uniform and Equipment Standardization Board (UESB) Resolution No. 2016-107, has recommended to the Commission for approval, the proposed minimum specifications for Digital Trunked Radio System (DTRS) for Digital Mobile Radio (DMR) Standard,

WHEREAS, the Specification for Digital Trunked Radio System (DTRS) for DMR Standard which was developed by the European Telecommunications Standards Institute (ETSI), provides a migration peth from enalog to digital with its ability to operate from both analog and digital mode. The DMR Standard was developed purposely to define a series of open interfaces, as well as services and facilities, in sufficient detail to enable independent manufacturers to develop infrastructure and terminal products that would fully interoperate with each other;

WHEREAS, the Philippine National Police (PNP) approved the adoption of the Digital Mobile Radio (DMR) Standard with the most cost-effective digital platform that will cater to the current and the future needs of the organization and for nationwide digital radio applications;

WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

WHEREAS, after thorough review and evaluation, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard, are in order and conform with the requirements of Republic Act No. 6975, as amended by Republic Act No. 6551 and its Implementing Rules and Regulations (IRR), all existing policies and issuences of the Commission and meet the requirements of the PNP; CERTIFIED TRUE COPY

ROSALIN ON DAZA MANGUI

aibing the Specification for Physial Transland Radio System For 176 DY Surveiland rage 2 of 2 pages

NOW THEREFORE, the Commission in the exercise of its stalutory powers to administer and control the PNP, HAS RESOLVED, AS IT HEREBY RESOLVES, to adopt and prescribe the Specifications for Digital Trunked Radio System (DTRS) for DMR Standard, to read as follows:

#### I. MASTER SWITCH

A. Switching Platform

: Internet Protocol (IP) based

B. Master Site Capability

Capable of Redundant System

interoperable to the existing PNP System

(direct or via gateway) IP based (Microwave-Ethernet or through ISP)

C. Multi-site Base Station Connectivity

D. Operating Voltage Range

: 220 VAC (±5%), 60 Hz.

E. MSO Load Capacity

1) No. of System Radio IDs

: 100,000 IDs

No. of Talkgroups

: 1600 Talkgroups

3) No. of Repeater/ Base Stations

100 Sites per MSO

4) No. of Logical

: 15 Physical Channel

Channels per Site

30 Logical Channels) per site

5) No. of Dispatch

2 Dispatch Consoles

Consoles

F. Features

1) Private Individual Call

2) Group Call

3) Over the Air Programming of Subscriber Units

4) Multi-Group/Conference Call

5) Ambience Listening Monitoring

6) Radio Disable/Enable

7) Busy Queue

B) Emergency Alarm/Call

9) Dedicated Control Channel

10)Reaming

11) Network Management System

12) Text Messaging Service

13) Automatic Vehicle Location System (AVLS)

14)PSTN Gateway

15) Multi Priority Level

16) Authentication

17)Late entry to group calls

#### II. BASE STATION

A. Operating Power Output

30 Watts

CERTIFIED TRUE COPY

B. Input Voltage

220 (±5%) VAC, 60 Hz

C. Temperature Range

-30°C to 60°C

D. RF Carrier Bandwidth E. Chennel Access

12.5 KHz

F. Output Impedance

TDMA : 50 ohms

ROSALIN CALDEZA MANGUI Acting Chief, GSD-PAS

I highed Treated Bulle System for USAN Associated

G. Maximum Receiver Sensitivity

: 0.3µV @ 5% Bit Error Rate

H. Feature

: Battery Charger with Auto Revert

L Accessories

Other necessary accessories

III. ANTENNA SYSTEM

A. Antenna

B. Transmission Line

: Type – Low Density Foam (LDF) type Diameter – 7/8 inch thick with compatible connectors, jumper cable and fixing kits

IV. DISPATCH CONSOLE SYSTEM

A. Console Display

Can be customized by the end-user according

to requirements or need

MUST PASS THE PNP TEST AND EVALUATIONS

APPROVED this 12 th day of DECEMBER 2016, in Quezon City, Metro

Manila, Philippines.

ISMAEL D. SUENOS Charman, NAPOLCOM

ATTY. ROGELIO 7. CASURAO

Commissioner ~
Vice Chairman and Executive Officer

ZENONIDA F. BROSAS

Commissioner

ATTY, JOB W. MANGENTE Commissioner

FELIZARDOM, SERAPIO, JR.

Commissioner

RONALD M. DELA ROSA Commissioner

Attested by:

CERTIFIED TRUE COPY

ATT Thursday ADELMALYN A. MUNIEZA Chief Secretarian

> ROSALIN CANDAZA-MANGUI Acting Chief, GSD-PAS,

# Republic of the Philippines NATIONAL POLICE COMMISSION PHILIPPINE NATIONAL POLICE COMMUNICATIONS AND ELECTRONICS SERVICE TECHNICAL WORKING GROUP ON DMR PROJECT (PHASE 3)

Camp 8Gen Rafael T Crame, Quezon City

## **TERMS OF REFERENCE**

Procurement of DMR 800 MHz Digital Radio Systems (Phase 3) (Supply, Delivery, Design, Installation, Programming, Testing, Training and Commissioning)

TOR = PNP Digital Radio Systems (Phase 3) \*Unauthorized copy or duplication is prohibited. Page 1 of 23

#### A. INTRODUCTION

In line with the desire of the Philippine National Police (PNP) through the Communications and Electronics Service (CES) to implement the Digital Communications System as reflected in the approved Communications System Strategic Plan (CSSP), another procurement of the aforementioned equipment was programmed to be funded from the savings that were accumulated at PSDBM under CEP 2012 and 2013, and OTP 2015 in the amount of Four Hundred Fifty Seven Million Sixty Six Thousand Nine Hundred Fifty Four Pesos and 21/100 (Php457,066,954.21). (Pls. see Annex "1")

These radios will be distributed to various PNP units to enhance their communications capabilities as well as to meet the requirements of Communications Technology (CT) compliance relative to the PNP Performance Governance System (PGS). This will also form part of the direction towards the realization of the PNP Digital Transformation Roadmap which is embodied in the PNP ICT Masterplan (S.M.A.R.T. Policing).

#### **B. DEFINITION OF TERMS**

For purposes of this Terms of Reference, the following terms shall be understood as herein defined:

VLS		

Automatic Vehicle Location System

Carrier

is a waveform (usually sinusoidal) that is modulated with an input signal for the purpose of conveying information

Conventional

- Radio system that operates on fixed RF channels

DGNA

Dynamic Group Number Assignment

DMO

**Direct Mode Operation** 

DMR

- Digital Mobile Radio is an open digital mobile radio standard defined in the European Telecommunications Standards Institute (ETSI) Standard

E2E

End-To-End Encryption is a system of communication where only the communicating users can read the

messages

ESN

Electronic Serial Number

IP

Internet Protocol

TOR - PNP Digital Radio Systems (Phase 3) \*Unauthorized copy or duplication is prohibited.

Page 2 of 23

Lone Worker

- Emergency alarm for an employee who performs an activity that is carried out in isolation from other workers

without close or direct supervision.

Mobile Switching Office is responsible for MSO

intercommunication among the network elements in the system and providing services such as mobility management, authentication, dispatch, network

management and intercommunication.

Over the Air Programming OTAP.

OTAR Over the Air Rekeying

Provincial Police Office PPO

PRO Police Regional Office is an automated communications process by which data Telemetry

are collected at remote or inaccessible points and transmitted to receiving equipment for monitoring

- DMR standard for Conventional System TIER II

TIER III - DMR standard for Trunking System

Radio system that uses a control channel to automatically Trunking

direct radio traffic to available physical channel.

- Telecommunications Service Provider TSP.

The DMR Interoperability Process IOP.

Network Management System NMS

#### C. CONCEPT OF IMPLEMENTATION

1. The implementation of the DMR project shall be highly available on street level coverage using DMR portables operating in TIER III digital trunking mode within range of the installed DMR base station. DMR terminals operating in TIER II digital conventional mode at selected PROs/PPOs/CPOs shall be highly available on street level coverage within range of the installed DMR repeater. The coverage will be dependent on the terrain, vegetations, man-made structures, and geographical conditions of the area.

2. The DMR project will have additional TIER III equipment installations in the following areas:

TOR - PNP Digital Radio Systems (Phase 3) "Unauthorized copy or duplication is prohibited.

In som sory

- a) PROs NCR, 5, 6, 9, 10, 11 and 12 each site equipped with 4-carner capacity, providing 8 channels per site; (Annex "2")
- b) PROs COR and 1 site collocated at Mt. Sto. Tomas repeater site, the two PROs shall use the same 4-carrier capacity to be upgraded with additional 4-carrier tranceivers, providing 16 channels for the two PROs.
- c) Forty-one (41) conventional repeater sites with each site providing 2 channels of communications; (Annex "3") and
- d) All TIER III DMR Trunking sites shall be scalable up to 32 carrier capacity.
- 3. Selected PROs/PPOs/CPOs shall have a TIER II DMR Digital Conventional repeater with 1 carrier capacity, providing 2 channels of communication with dispatch system. Coverage shall be highly available on street level coverage within range of the installed DMR repeater.
- 4. Internet Protocol (IP) connectivity from the PNP's TSP will be used to interconnect the DMR TIER III trunking sites to the existing MSO, NMS, Voice and Data Recording System, trunking dispatch system and unified dispatch system.
- 5. To save channel resource, the system shall not assign traffic channel of the base stations which do not have group call members. This function shall apply to all trunking base stations.
- 6. The DMR system shall support seamless handover of terminal units to overlapping TIER III Trunking base stations including to existing TIER III Trunking base stations. The voice communication shall be continuous and seamless handover process both for transmitting and receiving users.
- 7. All terminal units must support TIER II Conventional and TIER III Trunking operation and must be properly provided with permanent and uneraseable security markings as "PNP PROPERTY" on the casing of the leminals, and with the PNP LOGO to appear on the screen of all radios during power ON.
- Roaming between IP connected new (8 sites) and existing (NCR = 4, PRO3 = 2. PRO4A - 2. Cebu - 3. Davao - 4, and QCPD DMR systems - 2) TIER III base stations and IP connected TIER II repeater sites shall be supported for selected authorized terminats by using the existing IP based inter-system Fin for a series gateway. This means that a police officer from a PRO can bring a DMR

70W + PF4P Digital Kooks Systems (Phose 3) \*Unauthorized copy or displication is proniated.

handheld to any PRO with Tier III base stations and IP connected TIER II repeater sites, be able to contact and be contacted by his home PRO and vice versa. Group calis, Individual calls, Group message, Individual message shall be possible between these interconnected TIER III and TIER II sites.

- 9. Tier II shall work based on the following configuration depending on site conditions:
  - a) Stand alone conventional system with dispatch and AVL system.
  - b) IP connected conventional system with interconnection to the existing trunking system and unified communication sytem via TSP; and
  - c) Analog mode repeater to serve PNP's existing analog terminals. Digital terminals shall be set at analog mode for interoperability.
- 10. The implementation of the DMR System as programmed in the CEP 2012-2013 shall utilize a Digital Radio System for Trunking and Conventional. which is DMR technology pursuant to the following approved NAPOLCOM technical specifications: (Annex "4")

NAPOLCOM RES.#	TITLE
100.0	DIGITAL TRUNKED RADIO SYSTEM
2016-803	"FRESCRIBING THE SPECIFICATIONS FOR THE DIGITAL TRUNKED RADIO SYSTEM (DTRS) FOR OMR STANDARD"
	CONVENTIONAL REPEATER
2016-806	PRESCRIBING THE SPECIFICATIONS FOR THE DIGITAL CONVENTIONAL RADIO REPEATER FOR DMR STANDARD.
	DIGITAL BASE RADIO TRANSCEIVER
2018-588	"APPROVING THE AMENDMENT TO NAPOLCOM RESOLUTION NO. 2015-425. ON PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANCEIVER'S ACCESSORIES ON ANTENNA MAST."
2016-813	"APPROVING THE PMP LIESB RESOLUTION NO 2016-111 AMENDING NAPOL COM RESOLUTION NO. 2015-425 ON THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY"
2015-425	"PRESCRIBING THE STANDARD SPECIFICATIONS FOR DISITAL BASE RADIO TRANSCRIVER"
	DIGITAL MOBILE RADIO TRANSCEIVER
2016-814	"APPROVING THE PAP-LIE'SU RESOLUTION NO. 2016-112 AMENDING NAPOL COM RESOLUTION NO. 2015-426 ON THE STANDARD SPECIFICATIONS FOR DIGITAL MOBILE RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY
2015-426	"PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL MOBILE RADIO TRANSCEIVER"
	DIGITAL HANDHELD RADIO TRANSCEIVER
2016-815	"APPROVING THE PNP-UESB-RESOLUTION NO. 2016-110 AMENDING NAPOLOOM RESOLUTION NO. 2015-424 ON THE STANDARD SPECIFICATIONS FOR DIGITAL HANDHELD RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY"
2015-424	"PRESCRIBING THE STANDARD SPECIFICATIONS FOR DIGITAL HANDHELD RADIO TRANSCEIVER"

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11. Data communications capability shall be provided by this implementation of the DMR system. Radios shall be capable of sending keyword queries to verify any alarm associated to the subject which is integrated to PNP's SMS Query or check for vehicle. Reply to queries shall support up to 500 characters.

#### D. DMR COMMUNICATION SYSTEM REQUIREMENTS

The DMR project shall have basic components and features based on the approved NAPOLCOM technical specifications through Resolution Numbers 2016-803, 2016-806, 2018-588, 2016-813, 2015-425, 2016-814, 2015-426, 2016-815, and 2015-424. The terminologies may vary from each brand, however, said basic components and features as stated in the aforementioned specifications must be delivered.

All Base Stations. Repeaters and Terminals shall be fully operational and compatible to the existing DMR System but not limited to the following:

#### 1. DMR System Components

- a) Trunking Base Station (4 carriers x 8 sets)
  - a.1) Compliant to NAPOLCOM Resolution No. 2016-803;
  - a.2) With 4 carrier (8 logical channels):
  - a.3) Support power supply backup. The backup will support the power of all the channel units, base station controller unit and fan unit;
  - a.4) With site controller hot-standby redundancy;
  - a.5) Automatic Fallback to single (standalone) trunking base station operation if the connection to the central switch (MSO) is lost;
  - a.6) Automatic fallback to Conventional Repeater Mode if site controllers are all down.
  - a.7) Support external alarm to be supervised by NMS;
  - a.8) Support 3-way diversity receiver for wide coverage area;
  - a.9) Support the Equipment Serial Number (ESN) check to avoid unauthorized radio users;
  - a.10) Support the End to End (E2E) encryption;

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- a.11) Support the multiple secondary control channel for faster registration of big number of users;
- a.12) Shall be connected for full integration to the current DMR system which includes MSO, NMS, Voice and Data Recording System, Trunking Dispatch System, Tier II Repeater System, and the existing IP-Based gateway system;
- a.13) Interconnection shall be established by IP connectivity using the Console Subsystem Interface and not via audio input/output/PTT pin outs of the radio terminal or repeater.
- a.14) Enable interconnected Digital Trunked Radio System and Digital Conventional System establish encrypted Group Call, Group Message, Individual Call and Individual Message, and
- a.15) Can be interoperated by the existing Unified Dispatch System that dispatches radios from all trunking MSOs and iP connected Conventional Networks and shall support the following features:
  - a.15.1) Call Features
    - a.15.1.1) Individual call;
    - a.15.1.2) Group call:
    - a.15.1.3) Multiple Group Crosspatch;
    - a.15.1.4) Stun/Revive/Kill,
    - a.15.1.5) Voice monitor:
    - a.15.1.6) Ambience Listening, and
    - a.15.1.7) Voice recording.
  - a.15.2) Data Features
    - a.15.2.1) Individual message; and
    - a.15.2.2) Group message.
  - a.15.3) Advanced Vehicle Location System supporting Google map and Open Street Map
    - a.15.3.1) Map-based Individual call,
    - a.15.3.2) GPS Polling & Positioning;
    - a.15.3.3) Real-time tracking; and

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a.15.3.4) Geofencing.

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# b) Engineering Requirement for Trunking sites

- b.1) Tower mast with proper cable clip and harness; (Pin sale Annex "2")
- b.2) Outdoor Cabinet with appropriate cooling system or Radio Room Shefter with 2 units 1.0HP Aircon, Inverter Type, (Plasee Ashex "2")
- b.3) Cable tray:
- b.4) Outdoor generator with foundation, 5KVA Set with Automatic Transfer Switch.
- b.5) UPS with backup battery power system support for 8 hours.
- b.6) Grounding system as specified in the latest Philippine ( Electrical Code Edition and
- b.7) Lightning protection system.

### c) Additional Requirement for Upgrade at Enumerated Sites

- c.1) Total of 16 trunking transceivers to upgrade and expand the 4-camer to 8-camer sites for Arayat, Tagaytay, Busay, and Mt. Sto. Tomas sites including installation and other necessary constructional requirement (cables, connectors, rack space, etc.); and
- c.2) Total of seven (7) trunking dispatch workstations with additional ten (10) dispatch console licenses to be handled by existing dispatch servers in Metro Manila, Cebu or Davao (Pla see Annex "2" for the addresses) with the following functions and components.

## c.2.1) Components

- c.2.1.1) PC hardware;
- c.2.1.2) 32' Full HD LED Monitor;
- c.2.1.3) Keyboard and Mouse:
- c.2.1.4) Speaker; and
- c.2.1.5) Desktop noise reduction microphone with integrated PTT or gooseneck console microphone with a separate PTT.

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#### C2.2) Voice Features

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- c.2.2.1) Search for a contact, view the contact details, enable or disable the radio and monitor groups or radio.
- c.2.2.2) Support individual call, group call, all call, broadcast call, emergency call, priority call; and
- c.2.2.3) Monitor ambient sound of an idle radio in order to learn its surrounding conditions. The monitored radio will not be notified by any audible or visible indication.
- c.2.3) Messaging Features shall support to send text messages or predefined messages to a radio or a group. Dispatcher shall receive a prompt for successful and failed sending.

#### c.2.4) Advanced Vehicle Location System

- c.2.4.1) The location of the radio shall be visible on the map:
- c.2.4.2) Dispatcher shall be able to create temporary group by selecting users on the map.
- c.2.4.3) Support geofencing function; and
- c.2.4.4) Radios are tracked based on defined time interval or distance travelled.

#### d) Conventional Repeater (41 sets)

- d.1) Compliant to NAPOLCOM Resolution No. 2016-806;
  - d.1.1) The repeater shall be upgradable to DMR Tier III trunking transceiver thru software upgrade.
  - d.1.2) The repeater system shall be capable of operating in digital and analog mode;
  - d.1.3) The repeater must have built-in speaker and shall be capable with palm mic accessry to be able to establish calls to programmed talk-groups selected by menu keys;

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- d.1.4) The repeater shall support 16 selectable channels using front panel menu keys;
- d.1.5) The repeater system shall be linked to the existing digital repeater using IP network to enable interoperability of talkgroups with same group IDs.
- d.1.6) The Tier II conventional repeaters shall support IP multisite.
- d.2) Shall utilize the existing IP-based gateway system to integrate all new and existing IP connected Tier III Trunking and Tier II Repeater sites;
- d.3) Interconnection is established by IP connectivity using the Console Subsystem Interface and not via audio input/output/PTT pin outs of the radio terminal or repeater.
- d.4) Enable interconnected Digital Trunked Radio System and Digital Conventional Sytem establish encrypted Group Call, Group Message, Individual Call and Individual Message:
- d.5) The repeater system shall support IP telephony via SIP to enable radios with keypad directly establish and receive call to and from the existing EPABX or IPPBX of the PNP; and
- d.6) The repeater system shall be equipped with dispatch system with the following configuration and features:
  - d.6.1) Dispatch Console Components:

d.6.1.1) PC hardware.

d.6.1.2) 32° Full HD LED Monitor:

d.6.1.3) Mouse:

- d.6.1.4) Noise reduction gooseneck console microphone with PTT, and
- d.6.1.5) External Speaker.
- d.6.2) The dispatch system shall support connectivity to radio network via base/mobile radio as well as repeater through IP network for voice and data access;

d.6.3) With 200 radio terminal license.

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#### d.6.4) Dispatch Call Features.

- d.5.4.1) Individual Call;
- d.6.4.2) Group Call
- d.6.4.3) Audio Link/Patching.
- d.6.4.4) Emergency Alarm;
- d.6.4.5) AR CHIL
- d.6.4.6) SIP Call, and
- d.6.4.7) Record voice calls.
- d.6.5) Dispatch Automatic Vehicular Location System:
- d.6.6) Individual Call and Individual Message using the map:
- d.6.7) Location update transmission based on time interval and distance travelled:
- d.6.8) Radio terminals shall be able to send GPS information periodically during voice transmission;
- d.6.9) Geofencing:
- d.6.10) Emergency Indication;
- d.6.11) Over speeding alarm:
- d.6.12) History Tracking:
- d.6.13) Data features
  - d.6.13.1) Individual message.
  - d.6.13.2) Group message: and
  - d.6.13.3) Radio check.

#### d.6.14) Constructional Requirements.

- d.6.14.1) Tower mast with proper cable clip and harness. (Plu see Armex "3")
- d.6.14.2) Doghouse or Outdoor Cabinet for Conventional Repeater with proper ventilation system; and
- d.6.14.3) Backup battery 2pcs 100AH.
- d.5.14.4) Grounding system as specified in the latest Philippine Electrical Code Edition; and
- d.6.14.5) Lightning protection system.

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#### e) Terminal Units:

- e.1) Handheld Radio (5,507 sets);
  - e.1.1) Compliant to NAPOLCOM Resolution Nos. 2016-815, and 2015-424.
  - e.1.2) DMR Tier III and II compliant.
  - e.1.3) Support end to end AES 256 encryption:
  - e.1.4) Support built-in Bluetooth;
  - e.1.5) Support built-in GPS for real time location upload:
  - e.1.6) The radio terminals with GPS shall be able to track the location of the transmitting radios;
  - e.1.7) Support the Built-in Man-down
  - e.1.8) Support the Lone worker;
  - e.1.9) Support IP67 and MIL-STD 810G:
  - e.1.10) Support dedicate emergency button.
  - e.1.11) Radio Disable, Radio Enable, Remote Monitor from control center.
  - e.1.12) Audio accessories
    - e.1.12.1) Each radio should be equiped with a IP57 remote palm mic speaker.
    - e.1.12.2) Total of 500 bluetooth earpiece with wireless PTT:
    - e.1.12.3) Total of 500 wired covert earset with PTT; and
    - e.1.12.4) 20 units (1x6) portable battery charger;
- e.2) Mobile Radio for car (1,200 sets):
  - e.2.1) Compliant to NAPOLCOM Resolution Nos. 2016-814, and 2015-426;
  - e.2.2) DMR Tier III and II compliant.
  - e.2.3) Support end to end AES 256 encryption.

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- e.2.4) Support built-in GPS for real time location upload:
- e.2.5) The radio terminals with GPS shall be able to track the location of the transmitting radios.
- e.2.6) Radio Disable, Radio Enable, Remote Monitor from control center.
- e.2.7) Support IP54 and MIL-STD 810G; and
- e.2.8) Mobile antenna with at least 10 meters coaxial cable.

#### e.3) Mobile Radio for fixed station (300 sets):

- e.3.1) Compliant to NAPOLCOM Resolution No. 2016-814, and 2015-426;
- e.3.2) DMR Tier III and II compliant;
- e.3.3) Support end to end AES 256 encryption:
- e.3.4) Support built-in GPS for real time location upload.
- e.3.5) The radio terminals with GPS shall be able to track the location of the transmitting radios;
- e.3.6) Support IP54 and MIL-STD 810G;
- e.3.7) Radio Disable, Radio Enable, Remote Monitor from control center;
- e.3.8) Mobile antenna with at least 10 meters coaxial cable; and

#### e.3.9) Additional Accessories:

- e.3.9.1) 100 pcs Heavy duty Headsets with PTT and microphone.
- e.3.9.2) 300 pcs Power Supply Units (110-220VAC input, 13.8VDC output); and
- e.3.9.3) 300 pcs Batteries at least 100AH.

#### e.4) Base Radio (200 sets):

e.4.1) Compliant to NAPOLCOM Resolution Nos. 2018-588, 2016-813, and 2015-425;

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- e.4.2) Tier III and II compliant;
- e.4.3) Support end to end AES 256 encryption:
- e.4.4) Support built-in GPS for real time location upload:
- e.4.5) The radio terminals with GPS shall be able to track the location of the transmitting radios.
- e.4.6) Support IP54 and MIL-STD B10G:
- e.4.7) Radio Disable, Radio Enable, Remote Monitor from control center; and
- e.4.8) Battery at least 100AH.
- 2. Proposed DMR Terminals Distribution (Annex 151)
- 3. Proposed DMR Network Diagram (Annex "5")
- 4. IP Radio (8 links, for trunking base stations sites):
  - a) The equipment shall support Internet Protocol (IP) connectivity:
  - b) The equipment shall operate on a licensed, non-interfered set of frequencies 7GHz, 8GHz, 11GHz or 23Ghz,
  - c) The equipment shall support 1+1 Hot standby protection for reliable. operation.
  - d) The equipment shall have a management port for managing. monitoring and control,
  - e) Manageable through front panel display, and
  - f) The equipment shall be equipped with redundant power supply units with load sharing capability that in the event of failure of one power unit, the equipment shall have continuous service.

### E. ENGINEERING SERVICES

1. The winning bidder shall submit a Project Management Plan to include Work Breakdown Structure, its associated Gantt Chart, S-Curve, and PERT-CPM utilizing Project Management Software, ie. MS Project or Project Libre:

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- 3. Design and Construction/Improvement of Digital Radio System Equipment Room or Outdoor Cabinet for Trunking Bese Station sites with cooling system, electrical system, beacon light, lightning protection, grounding and bonding system for telecommunications (ANSI/TIA 607-B), busbar, and LED x fight: (Phs arec Artrida "2")
- 4. Design and Construction/Improvement of Antenna Mast for Trunking Base Station sites (Up to 120ft Guyed Lattice Tower/Tripod Pole or Self Support Tower for PROs and project sites, and up to 60ft Guyed Monopole/Single Pole/Tripod Rooftop Pole for roof top sites). The actual tower height shall be designed based on the lot space, MOA, structure design, wind loading, government law (such space clearance nearby Airport area), reuse of existing tower based on structure analysis; (Pis ser Annes "2")
- 5. Design and Construction of Doghouse or Outdoor Cabinet for Conventional Repeater sites with ventilation, beacon light, lightning protection, grounding and bonding system for telecommunications (ANSI/TIA 607-B), and busber.
- 6. Design and Construction/Improvement of Antenna Mast for Conventional Repeater sites (Up to 120ft Guyed Lattice Tower/Guyed Monopole/Tripod Pole for PROs and project sites, and up to 60ft Guyed Monopole/Single Pole/Tripod Rooftop Pole for roof top sites). The actual tower height shall be designed based on the lot space, MGA, structure design, wind loading. governent law (such space clearance rearby Airport area), reuse of existing tower based on structure analysis, and shall be compliant with ANSI/TIA 607-
- 7. Design and Construction/Improvement of Antenna Mart for Base Radio sites. (Up to 60R Guyed Monopole/Tripod Pole for PROs and project sites, and up. to 60ft Guyed Monopole/Single Pole/Tripod Rooftop Pole for roof top sites); including beacon light, lightning protection, grounding rod, and busbar. The actual tower height shall be designed based on the lot space, MOA, structure design, governent law (such space clearance nearby Airport area), reuse of existing tower based on structure analysis, and shall be compliant. with ANSUTIA 607-B
- System design, frequency planning, and IP planning.
- System integration, configuration and commissioning.

10. Fleet-map and programming templates:

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- 11. Programming of Mobile Radios, Base Radios, Handheld Radios, and
- 12. Network optimization and site acceptance.

### F. SCOPE OF WORK

The Scope of Work shall cover the procurement of DMR system, 800 MHz, which include supply and delivery, design, installation, programming, testing, training and commissioning.

Scope of work shall include, but not limited to, the following:

- Supply and delivery of DMR System equipment, 800 MHz, initially to PNP Logistics Support Service warehouse at Bicutan, Taguig City for inspection/accounting prior to delivery and installation to different PROs.
- 2. Design support and validation;
- 3. RF propagation, and Drive Test and Analysis for Trunking Sites:
- 4. Link budget calculations for IP radios.
- 5. RF path profiles for two-way and IP radio links;
- 6. Frequency management/allocation.
- 7. Network design and optimization,
- 8. Design of DMR System and IP Radio;
- 9. Design of Antenna system ;
- Assist in the documentation of compliance to the Radio Station License requirements from Special Radio Services Division of NTC.
- 11. Delivery of the supplied materials/equipment to PROs and project sites;
- Installation, configuration, programming and commissioning of base station sites and conventional repeater sites;
- Installation and programming of base radios and mobile radios; programming of handheld radios;

14. Acceptance testing:

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- 15. Operation, Maintenance, Programming and Troubleshooting Training of DMR. Trunking and Conventional System for 200 (2/PPO, 2/RCEO, 6/NHQCES) PNP personnel for 5 working days in each venue. The venue of the training will be clustered in three sites (Metro Manita, Cebu, and Davao);
- 16. All training materials, food, transportation, and billeting shall be provided by the supplier for the whole duration of the training. Training materials shall include technical notes and reference modules, test equipment and devices, basic installation and maintenance tools such as Frequency Counter (3), RF Wattmeter (3), Dummy Load (3), and Communication System Analyzer/ Spectrum Analyzer (1), which shall form part of the delivery for use in the future trainings and maintenance purposes.
- 17. Training shall include the following modules:
  - a. DMR terminal repair for Technicians of RCEOs (34);
  - b. Digital Trunking, IP Multisite and Repeater Coverage for Technical Officers and Technicians from RCEOs (66):
  - c. Dispatch Console Operation (84 Operators from PPO, 16 Operators from PROs);
- 18. Training certificate shall be issued to all successful participants

### G. TERMS AND CONDITIONS

Site-survey, system design, detailed engineering, manufacture/procurement and supply of all related goods and providing all related services including delivery, furnishing of materials, parts, labor, tool, equipment, system, test instruments, apparatus, all software permits/licenses/installers/installation procedures/admin passwords, and provision of other engineering services, assembly, installation, calibration, optimization, integration of equipment and software, testing, commissioning, test run, documentation, warranty, training, complete in all respect for implementation and completion of the project.

1. The supplier shall be responsible in the Ordering, Shipping, transport/shipping/freight insurance, Customs' Clearance, transportation and delivery to all sites all equipment/system necessary for the project

2. The supplier is responsible for site survey, site preparation, assist the PNP for the site permit and clearances to include Electronics Permit signed and

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sealed by PECE, insurance for the equipment as required during the installation, RF planning, antenna locations, cable routes, coverage, engineering, electrical works up to existing power distribution box/outlet of commercial power, civil works, rough-in works, grounding and bonding, and lightning protection system and all other installation necessary for the completion of the project in coordination with different Regional Communications and Electronics Offices (RCEOs);

- The supplier shall undertake the supply and delivery, design, installation, programming, testing and commissioning of all system components.
- 4. The supplier shall have all installation tools and materials, accessories, special tools, parts, etc. as required for proper installation and the successful completion of the DMR project. These shall include but not limited to, all connectors, inter-equipment cables, power supply cables and connectors, power distribution boxes, anchoring botts, nuts, screws, washers, main distribution frames, junction boxes etc.
- The supplier shall provide all necessary LAN components and devices, to include the configurations, settings, and programming of all DMR base stations and conventional repeaters to achieve a ready and capable IPconnected multisite DMR network thru available IP connectivity or TSP.
- The supplier shall submit the proposed design of DMR equipment and radio room/outdoor cabinet/doghouse etc. for PNP's approval. The supplier shall construct the DMR equipment room which shall be environmentally controlled to meet the cooling requirement for all equipment that shall be installed.
- 7. The supplier shall ensure that the installation of equipment shall be done in accordance with the local and international standards. All inter-bay, power supply and other cables shall be routed through cable trays in trunking sites. All through-wall openings, trenches etc. shall be properly sealed to prevent intrusion of rodents, insects and foreign materials.
- The supplier shall ensure that all antenna entrances to the DMR equipment room for all remote sites shall be protected against lightning strikes;
- 9. The supplier shall provide planning, set-up and programming of the system;
- The proposed trunking system must have IOP certificate from DMR association to ensure compliance to DMR Tier III interoperability with other terminal manufacturer.

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- The proposed handheld and mobile/base radios must have IOP certificate from DMR association to ensure compliance to DMR Tier III interoperability with other trunking system manufacturer;
- The proposed conventional repeater must have IOP certificate from DMR association to ensure compliance to DMR Tier II interoperability with other terminal manufacturer;
- The proposed handheld and mobile/base radios must have IOP certificate from DMR association to ensure compliance to DMR Tier II interoperability with other conventional repeater manufacturer;
- 14. The supplier shall ensure that the DMR system to be collocated at existing PNP MTRS is insulated from any interference both ways:
- 15. The supplier shall submit the System Software Licenses, Documentations, System Maintenance Manuals, detail drawings including layouts, equipment interconnection diagrams, equipment and material list, manufacturers' descriptive and technical literature/catalogue/brochures and installation instructions and warranties; and
- The supplier shall ensure 100% transfer of technology to the PNP within the warranty period.

### H. REQUIREMENTS FOR BIDDERS

- The bidder/supplier must be the authorized distributor/representative of the manufacturer in the Philippines supported by a duly stamped and sealed certification from the Original Equipment Manufacturer (OEM);
- The bidder/supplier must have at least five local personnel qualified and trained to install, repair and maintain the proposed DMR supported by a duly stamped and sealed training certificate from the manufacturer;
- The bidder/supplier must submit a written proof that their company has at least five years of experience in the supply, installation, and commissioning of two-way radio communications system that is similar to the proposed radio system;
- The bidder/supplier must submit a Radio Dealer's permit issued by the National Telecommunications Commission (NTC);

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- The bidder/supplier must submit the list of radio communications systems installed and or maintained within the last five years of establishment of their company;
- The bidder/supplier must have at least an authorized service center in Luzon, Visayas and Mindanao duly certified by the manufacturer;
- The foreign manufacturer must submit a proof of local representative office in the Philippines;
- The bidder/supplier must submit a proof of third party certification that the manufacturer brand is at least ten years existence in the Philippines market;
- The bidder/supplier must submit a copy of the contractor's authenticated Philippine Contractors Accreditation Board (PCAB) License with Specialization on Communications Facilities (SCF). If Joint Venture (JV), at least one of the JV has contractor's authenticated PCAB License with SCF;
- 10. The bidder/supplier must submit a duly stamped and sealed certification from the manufacturer stating that the availability of spare parts for all proposed equipment shall be for a period of at least ten years from the date of final acceptance;
- The bidder/supplier must submit a certification that the equipment being offered is NTC type approved;
- The bidder/supplier must submit a certification that all equipment being offered are Brand New;
- The bidder/supplier must submit a proposed Project Schedule and Methodology for PNP's review and approval; and
- 14. Twenty (20) sets of service manuals for the procured DTRS consisting of:
  - a) Detailed technical manual for each type of equipment containing functional diagrams and description;
  - b) Installation Procedure:

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- c) Commissioning Procedures:
- d) Operation Procedure, and
- e) Troubleshooting and Maintenance Procedures.
- The supplier shall issue Certificate of Non-Disclosure for the implementation of the project.

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### I. GENERAL NOTES

- It shall be the responsibility of the bidder/supplier to incorporate any incidental expenses deem necessary to satisfy the best engineering standard and practices as well as the expenses during the functional testing prior to final acceptance.
- The supplier must have full knowledge of the project, work and site condition, and have reviewed the project and bid documents, and thus warrants the availability of the labor, works, and specialties of the system, parts and other materials needed to complete and commission the DMR project.
- 3. In the event that any of the pre-determined sites (Base Radios and Repeaters) have issues in the installation and become unavailable, which is beyond the control of the PNP, subject installation shall be transferred to the nearest alternate site in accordance with the terms and conditions of this project (please see Annex. \* 7\*)

### J. TESTING AND COMMISSIONING

- The preliminary acceptance test of terminals shall be conducted in the PNP Logistic Support Service warehouse in accordance with the following testing procedures: (Annex "4")
  - a) PNP MC No. DRD-2004-01 entitled, "Test and Evaluation (T & E) procedures for PNP Multi-trunked Radio System (MTRS) and Similar Equipment";
  - b) PNP MC No. 2014-056 entitled, "Revised Adverse Condition Test Procedures and Guidelines for Fixed and Mobile Communications Equipment and Other Similar Equipment", and
  - c) Other tests not covered by pera a) and b) above shall be based on its functionality.
- The final acceptance test shall be undertaken after preliminary acceptance test approval and all the equipment have been installed including commissioning technical adjustment and alignment as may deem necessary.

### L. INSPECTION

The Joint TIAC (Technical Inspection and Acceptance Committee) of the PNP and the PSDBM shall inspect all components in the PNP Logistic Support Service warehouse to validate the products offered as against the delivered materials before the preliminary acceptance test.

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### M. DELIVERY AND COMPLETION PERIOD

Project delivery and completion including testing and commissioning shall be within 360 calendar days after issuance of Notice to Proceed (NTP).

### N. WARRANTY/GUARANTEE

- It is understood that all supplier's employee's or labor claims shall be for the exclusive account of the supplier.
- 2. The supplier guarantees that the supplies and services rendered shall turn out properly in conformity with good engineering practices and in accordance with the manufacturer's manual procedures. The supplier guarantees that the DMR and sub-systems shall work in conformity and adaptability to the present technological advancement and must make available its technical expertise and support to the DTRS within the warranty period at no cost to the PNP.
- The supplier shall repair, correct, or replace any defect during normal operational condition that may occur for a period of 36 months for the main components and 12 months for the accessories from the date of Certificate of Final Acceptance Test.
- 4. During the warranty period, the supplier shall provide:
  - Telephone Technical Support Service PNP technical personnel to refer/consult through telephone concerning malfunction encountered on the DTRS and provide immediate solution to the problem;
  - b) On-site Technical Support the supplier upon receipt of service/trouble call shall provide On-Site Technical Support if necessary. The supplier shall respond to the trouble within 24-hours upon notification. While undergoing repair, a Service Unit must be provided to ensure uninterrupted system operation; and
  - c) Personnel capable of troubleshooting and maintaining the DTRS including the required tools, maintenance spares, hardware, software, materials, etc. for the rectification of any problem.

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# (Annex 3)

# DMR CONVENTIONAL REFEATER SITE INFORMATION LIST

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Address	Carsal Police Station, Brgs, Berbespieler, Carsal, Scotts Norte	103 MC. Stay Categorica: Tagadin, Boots Sur.	Maddella Polon Station. Brgs. Vila Norte.	É	¥ . s	Stro Karagalan, Brgs Alesson, Meriveies, Batsan	Municipal Bilg Compount, San Antons, Zambales	Jan Jan Mrt. Jan Bry J. Denet. Jan Jan Real	Duthen MPS, Brgs, Tinemner, Luction; Dustrim	and Maric, Brgy Str. Next, Catariger, Matheta	Fangandan MPS. Brox Ota Maria.
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# NATIONAL POLICE COMMISSION NATIONAL POLICE COMMISSION NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE OFFICE OF THE CHIEF, PNP Canty IlGen Rated T Crame, Queson City



SMD-049-200-11-26H

November 26, 2020

## DISTRIBUTION LIST OF COMMUNICATION EQUIPMENT (PSDBM PROGUREMENT)

UNIT	HANDHELD	BASE	MOBILE	REPEATER	TRUNKED RADIO SYSTEM
PRO COR	.50		-34		1
Abra PPO	40	2	30		
Apeyao PPO	20	2	9		
Benguet PPO	40	2	25	3	
thigaso PPÖ	40	2	20	1	
Kalinga PPO	40	2	10		
Mt Province PPG	20	2	10	1	
Bagain CPO	40	2	27		
Sub-Total >>>>	310	14	145	3	1
PRO 1	50				
Bocos Norte PPO	40	2	10	1	
Booos Siur PPO	40	2	15	4	
Pangasinan PPO	40	2	50		
La Union PPO	40	2	10		
Sub-Total >>>>>	210		85	2	
PRO 2	50		- 5	100	
Cagayan PPD	40	2.	15		
Isabels PPO	40	2	-15		
Numer Vizonya PPO	40	3	5.	1	
Quirino PPO	40	2	5	1.	
Savingo CPO	40	2	1		
Sub-Total >>>>	250	10	44		
PRO 3	50		10		
Aurora PPO	40	2	10	1	
Batain PPO	40	7	15	- 1	
Bulance PPO	40	1	15		
Nueva Ecija PPO	40	2	15		
Pampanga PPO	40	2	20		
Tarlac PPO	40	2	15		
Zambalas PPO	40	2	15	1.	
Angeles CPO	40	2	15		
Olongapo CPO	40	2			
Sub-Yotal >>>>	410	18	139	3	

UNIT	HANDHELD	BASE	MOBILE	REPEATER	TRUNKED RADIO SYSTEM
PRO 4A	50		10		
Cavite PPO	40	2	10		
Laguna PPO	40	2	10		
Betanges PPO	40	2	15		
Rizal PPO	40	2	10	1	
Quezon PPO	40	2	10	1	
Sub-Total >>>>	250	10	65	2	
PRO 4B	50				
Marinduque PPO	40	2	5		
Oriental Mindoro PPO	40	2	5		
Occidental Mindoro PPO	40	2	5		
Palawan PPO	40	2	10	2	
Rombion PPO	40	2	5		
Puerto Princesa PPO	40	2	5		
Sub-Total >>>>	290	12	35	2	
PRO 5	50		11		1
Albay PPO	40	2	10		
Camarines Norte PPO	40	2	5		
Camarines Sur PPO	40	2	15		
Catanduanes PPO	40	2	5	1	
Masbate PPO	40	2	15	1	
Sorsogon PPO	40	2	5		
Naga CPO	40	2	3		
Sub-Total >>>>	330	14	69	2	1
PRO 6	50				1
Aklan PPO	40	2	5	1	
Antique PPO	40	2	5		
Capiz PPO	40	2	5		
Guimaras PPO	40	2	7	1	
Iloilo PPO	40	2	15		
llollo CPO	40	2	4	1	
Negros Occidental PPO	40	2	15	109.01	
Becolod CPO	40	2	10	1	
Sub-Total >>>>	370	16	66	4	1
PRO 7	50		15	(0)	
Cetty CPO	40	2	15		
Cebu PPO	40	2	20		
Bohol PPO	40	2	20		
Siguilor PPO	20	2	10	1	
Mandaue CPO	40	2	10		
Negros Oriental PPO	40	2	15	1	
Sub-Total > > > >	270	12	105	2	

UNIT	HANDHELD	BASE	MOBILE	REPEATER	TRUNKED RADIO SYSTEM
PRO 8	50		18		
Leyte PPO	40	2	15		
Southern Leyte PPO	40	2	15	1	
Biliran PPO	20	2	8		
Samar PPO	40	2	15		
Eastern Samar PPO	40	2	15		
Northern Samar PPO	40	2	15	1	
Tacloban CPO	40	2	6		
Ormoc PPO	20	2	6	1	
Sub-Total >>>>	330	16	113	3	
PRO 9	50		4		- 1
Zamboanga CPO	40	2	9	1	
Zamboanga Sibugay PPO	40	2	10	1	
Zamboanga Del Norte PPO	40	2	10		
Zamboanga Del Sur PPO	40	2	10		
Sub-Total >>>>	210	8	43	2	1
PRO 10	50		15		1
Bukidnon PPO	40	2	15	1	
Lango Del Norte PPO	40	2	15		
Camiguin PPO	20	2	6		
Misamis Occidental PPO	40	2	10	1	
Misamis Oriental PPO	40	2	15		
Cagayan De Oro CPO	40	2	9		
Higan CPO	40	2	15	1	
Sub-Total >>>>	310	14	100	3	1
PRO 11	50		15		1
Davao del Sur PPO	40	2	14	1	
Compostela Valley PPO	40	2	10		
Daviso del Norte PPO	40	2	10		
Davao Oriental PPO	40	2	15	1	
Daviso CPO	40	2	5		
Daviso Occidental PPO	40	2		1	
Sub-Total >>>>	290	12	69	3	1
PRO 12	50		14		1
Sultan Kudarat PPO	40	2	10	1	
North Cotabato PPO	40	2	10	1	
South Cotabato PPO	40	2	10		
Sarangani PPO	40	2	8	1	
General Santos CPO	40	2	5		
Sub-Total >>>>	250	10	57	3	1

UNIT	HANDHELD	BASE	MOBILE	REPEATER	TRUNKED RADIO SYSTEM
PRO 13	.50		18		and the second section of the section of t
Agusan Del Norte PPO	40	2	10		
Agusen Del Sur PPO	40	2	10	(4)	
Surigao Del Norte PPO	40	2	15		
Surigao Del Sur PPO	40	2	15	- 1	
Dinagat Islands PPO	30	2	9		
Butuan CPO	40	2	11		
Sub-Total >>>>	280	12	88	2	
PRO BAR	50		10		
Lanao del Sur PPO	40	- 2	15	1	
Basilan PPO	40	2	10		
Maguindanao PPO	40	2	15	1	
Sulu PPO	40	2	15		
Tawi-Tawi PPO	40	2	7		
Cotabato CPO	40	2	G		
Sub-Total >>>>	290	12	84	2	
NCRPO	200		44.4		1
NHQ/NSU	185		100		
CES (Reserve)	472	2	49	1	
Sub-Total >>>>	887	2	193		
GRAND TOTAL >>>	5,507	200	1,500	41	. 0

(Annex 5)

### PROPOSED DISTRIBUTION OF DIGITAL RADIOS

PRO 1 Issue Note PPO Rices Sar PPO Pergestran PPO La Union PPO Total PRO 2 Gagayan PPO	50 40 40 40 40 218 50 40 40	2 2 2 2 2 8	111 10 90 111	1	
Recon Sur PPO Perspension PPO La Union PPO Yotal PRO 2 Gagayee PPO	40 40 40 \$18 50 40	2 2	16 90 19	1	
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PRO 2 Gagayan PMO	50 40	-	- 86		
PRO 2 Gagayan PMO	40			1	
Stageyen PVIO	40		3.		
		- 2	15		
Isabela IVO		2.	- 15		
Numin Vacaya FPD	43	7	9	1	
Quees PPO	80	2	5		
Sartiago CPO	40	2	- 1		
Tuni	260	19	44	2	
PRD 3	302	_	- 12		
Aurora PPD	40	2	10		
Bytain PPO	40		- 15		
Busion PPO	40	1	15		
Russia Edia PPO	40	2	18		
COLUMN TO CASE	65	2	20		
Premisence PPO Tanac PPO	42	2	19		
Cardates PPO	43	2	15	1	
Angeres CPO	40	2	18		
Olonyano OPO	40	2			
Total	410	18	120	3	
PRO AA	10		10.		
Ceves PPO	40	2	10		
Laguna PPO	40	311	10		
Estanças PPO	40	30	16.		
Rigal PPO	40	1	10	5	
Climaton PPCI	140	123	15	- F-	
Total 1	248	10	66	2	
	55	-			
PRO 48	40	2	3		
Martisthique PPO	40	3			
Crieffel Mindom PPG	40	2	8 7		
Occidental Minister PPO	40	-2	12	2	
Palaman PPAD	40	2	200		
Surgica PPO	4	2	201		
Puerto Percesa PPO	299	12/	24	2	

PHO 5.

PRO	Handheid	Beet	Mobile	Repeater	Trunked Radio System
PROS	68		11		
Attes PPO	40	2	10		
Comerine Norte PPO	40	- 2	6		
Carrannes Sur PPO	40	2	15		
Catanduanes PPO	42	- 2	- 8		
Mastista PPO	40	7	15	- 1	
Sersogen FFO	42	1			
Naga CPO	40	1	3		
Total	330	14	69	1	1
The state of the s	50				1
PHO E	40	2	5	- 1	
Alian PPO	40	1	8		
Artigoe PPD	40	7	5		
Capit PPO	40	1	7	1	
Olimans PPO	40	2	95		
Healer POPUS	40	2	4	4	
Sale CPO	40	2	15		
Negros Occidental PPO	40	2	10	1	
Baseled CPG		16	56	4	1
Total	370	10.	-	_	
PRO 7	5.0		15		
Cety CPO	40	2	15	-	
Cebu PPO	40:	3	20		
Bena PPO	40	2	20	1	
PRIVATE PRO	28	-20	10		
Mandage CPO	45	2 2	10	1	
Nagres Oferial PPO	40	annier selv	15	2	
Total	279	12	108		
PROF	5.0		58		
Leyes PPO	40	-2	18.	-	
Southern Leyte PPO	40	3	19		
Baran PPO	20	3	3		
Sattar PPO	49	2	18	-	
Eastern Servar PPO	A0	2	12	-	
Norther Earner PPO	40	3	15	1	
Tachston CPO	45	3	-	100	
Ormoc PPO	-20	-2	6	3	
Total	330	15	113		
PROB	10		4		
Zerstelangs CPO	40	2	1.0	3	
Terminarya Situatey PPO	40	2	10	-4	
Tamboarga Del Norte (1993)	40	3	19.		
Dantosega Dai Sui PPO	40	2	10	-	-
Total	210	-8	42	2	PRO 10

PRO	Handheld	Dase	Mobile	Repeator	Trunked Radio System
PRO 18	1/0		15		1.1
Bulgoon PPD	40	2	15		
Lanco del Norte PPO	40	2	15		
Carogue PPO	- 20	2	4		
Missmit Occidental PPO	att	- 2	10	- 4	
Mixams Oriental PPO	40	2.	19		
Cagayer de Ore CPO	40	2	2		
Agun CPO	40	2	15	-1-	
Total	310	14	100	- 3	1
PRO 11	- 50:		15		14
Dayso del Sur PPO	40	2	14	1	
Compositis Valley PPC	45	2	10		
Devac del None PPO	40	25	10		
Daven Oriental PPO	40	30	15	1	
Devae CPO	40	2	- 6		
Dwise Occidental PPO	40	1	.0		
Total	290	12	60	3	1
PRO 12	50		14		1
Sutten Kudarat PPO	40	2	10	1	
North Colabato PPO	40	2	10	1	
South Cotabato PPO	40	-2	10		
Saranggani PPO	40	2		1	
General Santos CPO	40	2	1		
Total	253	10	57	3	1
PRO 13	-10	-	10		
Agunan del Norte PPO	40	2	10		
Agusan del Sur PPO	40	2	16	1	
Surgac del Norte PPO	40	2	15		
Sudgeo del Bur PPO	40	2	15	1	
Shagat Island PPO	30	2	9		
Butuan CPO	40	2	11		
Total	280	12	88	2	
	50		10		
PRO ARMM	40	2	15	1	
area det Sur PPO	40	2	10		
lasitan PPO	40	2	15		
fagundanao PPO	40	2	15		
aru PPO	40	2	7		
Invitation PPO	40	2	.0		
otabano CPO Total	290	12	84	.2	And the last of th

PRO	Handheld	Base	Mobile	Repeater	Trunted Radio System
PRO COR	50		14	-	1
Abss PPO	40	2	30		
Apayao PPO	20	2	- 9		
Bergust PPO	40	2	25		
Nugae PPG	40	2	20	1	
Kalinge PPO	40	2	10		
Mt Province PPO	40	2	10	4 1	
Regulo CPO	40	2	- 27		
Total	212	14	140	3	1
HCRPO	300	0	-64		1
RHCLNSO	126	.0	100		
CES (Roserve)	473	2	49	1	
Frand Total	5.507	200	1,880	41	1

Site List of Base Radio

va.	PRO	ADDRESS	OWNERSHIP	LOT AREA	PHYSICAL SECURITY	SITE APPROVAL
1		Vigan City Police Station, Brgy, VIII, Vigan City, Rocci Sur	PNP	Co-locate with nasting Antenna Posit	PNP personnel	PNP Certification
1		Tagudin Police Station, Brgy. Del Plar, Tagudin, Rocce Sur	PNP	Co-locate with existing Antenna Post at morting	PNP personnel	PNP Certification
3		Lacag City Police Station, Brgy 1, San Lorenzo, Lacag City, Nocce Norte	PNP	Co locate with evening America Post at roof top	PNP personnel	PNP Certification
4	,	Carasi Police Station, Brgy Barbarquezo, Carasi, Rocce Norte	PNP	Co-locate with the proposed conventional repeater	PNP personnel	PNP Certification
5	'	Caba Police Station, Brgy Poblacion Sur, Caba, La Union	PNP	Conscale with ecology Arterna Peet at roof top	PNP personnel	PNP Certification
6		San Juan Police Station, Ban Juan, La Union	PNP	Co-troate with existing Antenna Pool at not kee	PNP personnel	PNP Certification
7		Dagupan City Police Station, Dagupan City, Pangasinan	PNP	Ox-locate with existing Antenna Post of roof top	PNP personnel	PNP Certification
8		San Carlos City Police Station, San Carlos City, Pangasanan	PMP	Co-loate with existing Antenna Post at roof top	PNP personnel	PNP Certification
,	$\vdash$	Amulong Police Station, Cagayan Valley Rd, Amulong, Cagayan	PNP	érsém	PNP personnel	PNP Certification
10	1	Tuguegarao City Police Station, Tuguegarao City, Cagayan	PNP	Foot at not fig-	PNP personner	PNP Certification
11		Diffun Police Station, Andres Bonifacio, Diffun, Quirtro	PNP	TextOn.	PNP personnel	PNP Certification
12	1	Nagtpuran Police Station, Porngo, Nagtpuran, Quino	PNP	1094100	PNP personnel	Certification
13		Santiago City Police Office, Brgy Victory Norte, Santiago City	PNP	Cu-locate with existing Ardenna Plast at Horf for	A STATE OF THE PARTY OF THE PAR	Certification
14	2	Police Staton 1, Santiago City Police. Office. Santiago City	PNP	Co-locate with existing Anserna Fruit or not top	PNP personnel	PNP Certification
15		Solano Police Station, Ronifacto Street, Solano, Nueva Viscaya	PNP	Snudre	PNP personnel	PNP Certificatio
26		Alfonso Castaneda Police Station, Brgy Lublub, Alfonso Castaneda. Nueva Viscava	LGU	Shoom	PNP personnel	PNP Certificatio
17		Cauayan City Police Station, Cauayan City, Isabelia	PNP	Requires new arternal Post-at roof fee	PNP personnei	PNP Certificatio
18		Ragan City Police Station, San Vicente, Ragan City, teatrela	PNP	Region new arternal Post alreading:	PNP personnel	PNP Certificatio
19	3	Othahungan Police Station, Pob. Zone 2, Dinakingan, Aurora	PNP	500eph	personnel	Certificatio

20		Difasag Police Station, De Leon St., Maligeya, Difasag, Aurora	PNP	600spr	PNP. personnel	PNP Certification
21		Bagac Police Station, Brgy Alitano Ricardo, Bagac, Bataan	PNP	626wgm	PNP personnel	PNP Certification
22		Morong Police Station, Brgy Poblacion, Morong, Bataan	LGU	125ep#	PNP personnel	PNP Certification
23		Meycasayan City Police Station, Brgy Camalig, Meycasayan City, Bulacan	PNP	Requires new arterns . Post at roof key	PNP personnel	PNP Certification
24	2000	Calumpit Police Station, Municipal Cripd, Brgy Balungao, Calumpit, Bulacan	LGU	150ware	PNP personnel	PNP Certification
25	3	309th Bongation PB, 1st PMFC, Brgy Tugwing, Bongation, Nueva Ecija	PNP	13ex10e	PNP personnel	PNP Certification
		Lianera Police Station, Bgry Victoria, Lianera, Nueva Ecija	with deed of donation from LGU	InsIn	PNP personnel	PNP Certification
26		Sto Tomas Folice Station, San Vicente, Sto Tomas, Pampanga	LGU	éssén	PNP personnel	PNP Certification
27		San Fernando City Police Station, Diosdado Macapegal Govt Center, Brgy Maimpis, San Fernando City, Pampanga	PNP	3903sq1	PNP	PNP Certification
28		Anao Police Station, Brgy Pob., Anao, Tarlac	Donated by LGU	Requires new anterna Post at rowning	PNP personnel	PNP Certification
29		Mayantoc Police Station, Bigy Pob. Sur, Mayantoc, Tarlac	PNP	Fost al real top	PMP personnel	PNP Certification
30		Angeles City Police Office, Camp TJ Pepito, Sto. Domingo, Angeles City	ren	Co-locate with existing. Anienna Post st roof top	PNP personnel	PNP Certification
31		Police Station 4, Brgy Ballbago, Angeles City	ran	Co-kease with existing Antenna Post at roof top	PNP personnel	PNP Certification
32		Sta Cruz Police Station, Brgy Pob. South, Sta Cruz, Zambales	LGU	Kisen	PNP personnel	PNP Certification
33		San Antonio Police Station, Brgy Rizal, San Antonio, Zambales	LGU	100agm	PNP personnel	PNP Certification
34		Police Station 5, Horseshoe Drive, Brgy Sta Rita, Clongapo City	LGU	15Degre	PNP personnel	PNP Certification
35		Police Station 6, Ilo-Ilo St., Brgy Barretto, Olongapo City	LGU	est. 100 stars	PNP personnel	PNP Certificatio
36		Lianera Police Station, Bgry Victoria, Lianera, Nuova Ecija	with deed of donation from LGU	Treste.	PNP personnel	PNP Certificatio
37	44	Managondon Police Station, Brgy Ganta A, Managondon, Cavite	PNP	Requires New Actionna Post at roof top	PNP personnel	PNP Certificatio

38		Ternate Police Station, Brgy Poblacion 1A, Ternate, Cavite	PNP	Pagains New Antonna Post at roof top	PNP personnel	PNP Certification
19		Majayjay Police Station, Brgy Sta Catalina, Majayjay, Laguna	PNP	Requires New Artenne Post at real too	PNP personnel	PNP Certification
40		Nagcarlan Police Station, Brgy Poblacion 3, Nagcarlan, Laguna	PNP	Requires New Antonio Poet at roof top	personnel	PNP Certification
41		San Juan Police Station, Brgy Pob., San Juan, Batangas	PNP	Regules New Antonna Poet at roof kep	PNP personnel	PNP Certification
42	44	Calatagan Police Station, Brgy Pob. 2, Calatagan, Batangas	PNP	Requires New Artennia Post at roof top:	PNP personnel	PNP Certification
43		Mauban Police Station, Brgy, Polo, Mauban, Quezon	PNP	19Carph	PNP personnel	PNP Certification
44		Pagbilao Police Station, Brgy, Wiffs, Pagbilao, Quezon	PNP	Requires New Artenna Post at your tear	PNP personnel	Certification
45		Cardona Police Station, Brgy, San Roque, Cardona, Rizal	PNP	Requires New Arteness Post at met deck	personnel	PNP Certification
46		Baras Polce Station, Brgy. Santiago. Baras. Rizal	PNP	500 sqrt	PNP personnel	PNP Certification
47		Polangui Police Station, Polangui, Albay	LGU	Regulate New Artenna Post at roof top	PNP personnel	PNP Certification
48		San Lorenzo Ruiz Police Station, Purok 1, Brgy Matacong, San Lorenzo Ruiz, Camarines Norte	PNP	Requires New 40th America Post from the ground	PNP: personnel	PNP Certification
49		Vinzons Police Station, Sitio Mangcawayan, Brgy Calangcawan Sur, Vinzons, Camatries Norte	PNP	Haspares flow Anterna Fraid at roof top	PNP personnel	PNP Certification
50		Sagnay Police Station, Sagnay, Camerines Sur	PNP	Regules New Antonna Post at roof top	PNP personnel	PNP Certification
51.	5	Lagonoy Police Station, Brgy San Rafael, Lagonoy, Camarines Sur	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
52		Panganiban Police Station, Brgy Sta Maria, Panganiban, Catanduanes	PNP	Requires time America Poet at roof top	PNP personnel	PNP Certification
83		San Andres Police Station, Brgy San Roque, San Andres, Catanduanes	PNP	Requires New Anterna Post at roof top	PNP personnel	PNP Certification
54		Bato Police Station, Brgy Libod Pob., Bato, Catanduanes	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
55		2nd PMFC, Brgy Sto Nino, Cataingan, Masbate	donated to PNP	TMSwgm	PNP personnel	PNP Certification
56		Palanas Police Station, Brgy Pob., Palanas, Masbate	PNP	Requires New Arterine Post at roof top	PNP personnel	PNP Certification
57		Pio V. Corpuz Police Station, Brgy Pob., Pio V. Corpuz, Masbate	PNP	Co-locate with costing Antenna Post	PNP personnel	PNP Certification

58		Sorsogon City Police Station, Brgy Cabid-an, Sorsogon City, Sorsogon	PNP	Co-boste with aristing Antenna Post	PNP personnel	PNP Certification
59	5	Gubat Police Station, Gubat, Sorsogen	PNP	Requires New Antenna Poet at roof top	PNP personnel	PNP Certification
60		Juban Police Station, Juban, Sorsogon	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
61		Balete Police Station, Brgy Poblacion, Balete, Aktan	PNP	100sgm	PNP personnel	PNP Certification
62		Batan Police Station, Brgy Poblacion, Batan, Aklan	PNP	150sqm	PNP personnel	PNP Certification
63		Tibiao Police Station, Brgy Poblacion, Tibiao, Antique	PNP	612agm	PNP personnel	PNP Certification
64		Tobias Fornier Police Station, Brgy Poblacion Norte, Tobias Fornier.	PNP	100sgn	PNP personnel	PNP Certification
65		Cuartero Fornier Police Station, Brgy Poblacion llawod, Cuartero, Capiz	PNP	50upm	PNP personnel	PNP Certification
66		President Roxas Police Station, Brgy Cabug Cabug, President Roxas, Capiz	PNP	100sgm	PNP personnel	PNP Certification
67		Buanavista Police Station, Sirgy Poblacion, Buenavista, Guimanas	PNP	25m3.5n	PNP personnel	PNP Certification
68	6	Sibunag Police Station, Birgy Dasak, Sibunag, Guimaras	PNP	100aph	PNP personnel	PNP Certification
89		Miagao Police Station, Mueda St., Brgy Gubongan, Miagao, Itolio	PNP	100egm	PNP personnel	PNP Certification
70		2nd Itolio PMFC, Brgy Zerrudo, Sara, Itolio	PNP	60spm	PNP personnel	PNP Certification
71		Police Station 9, Bacolod City Police Office, Araneta St., Brgy Sum-ag, Bacolod City	PNP Owned	120 sgm	PNP personnel	PNP Certification
72		Police Station 10, Bacolod City Police Office, Zone 7, Brgy Handumanan, Bacolod City	PNP Owned	150 egm	PNP personnel	PNP Certification
73		Cadiz City Police Station, Gustilo Blvd., Brgy Zone 1, Cadiz City, Negros Occidental	PNP	60 agn	PNP personnel	PNP Certification
74		Himamaytan City Police Station, Bigy Talaban, Himamaytan City, Negros Occidental	PNP	Requires New Antenna Feet alrosed top	PNP personnel	PNP Certification

75		City Mobile Force Company, Cebu City Police Office, Sawang Calero, Cebu City	PMP	Requires New Acteona Post at roof top	PNP personnel	PNP Certification
76		Talamban Police Station (Station 8), Cebu City Police Office, Brgy Talamban, Cebu City	PNP	Porquires New Antenna Poel at roof top	PNP personnel	PNP Certification
77		City Mobile Force Company, Madaue City Police Office, Birgy Tipolo, Mandaue City	PNP	Requires New Arrenna Post at roof top	PNP	PNP Certification
78		Mobile Patrol Group, Madaue City Police Office, Brgy Tipolo, Mandaue City	PNP	Requires New Actornal Post at roof top	PNP personnel	PNP Certification
79		Oslob Police Station, Brgy Poblacion, Oslob, Cebu	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP
80	7	Santander Police Station, Brgy Poblacion, Santander, Cebu (for Construction)	PNP	10Geget	PNP personnel	PNP Certification
81		Bais City Police Station, Brgy I, Bais City, Negros Oriental	PNP	(20x30) Requires New Antenna Post at roof top	PNP personnel	PNP Certification
82		Tanjay City Police Station, Brgy Pob. 2, Tanjay City, Negros Oriental	PNP	75wpv.	PNP personnel	PNP Certification
83		San Juan Police Station, Birgy Poblacion, San Juan, Siguijor	PNP	Fisquires New Antenna Plast at most top	PNP personnel	PNP Certification
84		Siguijor Police Station, Brgy Poblacion, Siguijor, Siguijor	PNP	Requires New Antonna Post at reef top	PNP personnel	PNP Certification
85		Loboc Police Station, Brgy Poblacion Sawang, Loboc, Bohol	PNP	Plactime New Antonna Post at reef top (but with depart LOU Tower)	PNP personnel	PNP Certification
86		Carmen Police Station, Birgy Poblacion Sur, Carmen, Bohol	PNP	100sgm	PNP personnel	PNP
87	*	Victoria Police Station, National Road, Victoria, Northern Samer	PNP	Requires New Antennus Post at roof top	PNP personnel	PNP Certification
88		Alten Police Station, Brgy Sabang 2, Alten, Northern Samar	PNP	Requires New Antonno Post at the back	PNP personnel	PNP Certification
99		Catarman Police Station, Catarman, Northern Samar	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
90		San Roque Police Station, San Roque, Northern Samar	PNP	Requires New Antennus Post at the side	PNP personnel	PNP Certification
91		Pambujan Police Station, Pambujan, Northern Samer	PNP	Requires New Antonnu. Post at the side	PNP personnel	PNP Certification
92		Ormoc City Police Office, Camp Downes, Ormoc City	PNP	Firetures New Antennia. Post at the side	PNP personnel	PNP Certification
93		Police Station 2, Ormoc City Police Office, Brgy Cambuhangin, Ormoc City	PNP	Requires New Antonna Post at the aids or roof top:	PNP personnel	PNP Certification
94		Tacloban City Police Office, Paterno Ext., Tacloban, Leyte	PNP	Requires New Antonnis Post at the back	PNP personnel	PNP Certification

95		Police Station 2, Tacloban City Police Office, Cowntown, Tacloban, Leyte	PNP	Requires New Antenna Post at the back	PNP personnel	PNP Certification
96		Police Station 1, Tadoban City Police Office, Palamo Ext., Tacloban, Leyle	PNP	Flaquints New Artenna Post at the back	PNP personnel	PNP Certification
97		Pinabacdao Police Station, Brgy Dolores, Pinabacdao, Samar	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
98		Calbiga Police Station, Brgy Polangi, Calbiga, Samar	PNP	Required New Ardents Post at the side	PNP personnel	PNP Certification
99		Calbayog City Police Station, Brgy Aguit-itan, Calbayog City, Samar	PNP	Requires New Antenna Prost at the rooftop	PNP personnel	PNP Certification
100		Carbalogan City Police Station, Del Rosario St., Carbalogan City, Samar	PNP	Requires New Artenna Fost at the moltop or side	PNP personnel	PNP Certification
101		San Julian Police Station, National Highway, San Julian, Eastern Samar	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
102		Maydolong Police Station, National Highway, Maydolong, Eastern Samar	PNP	Flaquines New Antenne Post at the moftop or side	PNP personnel	PNP Certification
103		Maydolong Police Station, National Highway, Maydolong, Eastern Samar	PNP	Requires New Antenna Post at the contop or side	PNP personnel	PNP Certification
104		Tungawan Police Station, Brgy Libertad, Tungawan , Zamboanga Sibugay	PNP	Requires New Anterna Post at the roofice	PNP personnel	PNP Certification
105	,	RT Lim Police Station, Brgy Katipunan, RT Lim , Zambounga Sibugay	PNP	Requires flere Antenna Post at the rooftop	PNP personnel	PNP Certification
106		Tukuran Police Station, Brgy Curvada, Tukuran , Zamboanga Del Sur	PNP	Regulate New Assertiu Poel at the roofice	PNP personnel	PNP Certification
107		Aurora Police Station, Bigy Poblacion, Aurora, Zambounga Del Sur	PNP	Requires New Antenna Foat at the rootop	PNP personnel	PNP Certification
108		Jose Dalman Police Station, Bigy Poblacion, Jose Dalman, Zambounga Del Norte	PNP	Flaquines New Antenna Post at the roofings	PNP personnel	PNP Certification
109		Capitan City Police Station, Bigy Sta Cnuz, Dapitan City, Zamboanga Del Norte	PNP	Hequinas Now Antenna Post at the reofter	PNP personneli	PNP Certification
110		Police Station 9, Zambourga Police Office, Zone 3, Brgy Ayata, Zambourga City	PNP	Flaquines flow Asserts Post at the routing	PNP personnel	PNP Certification

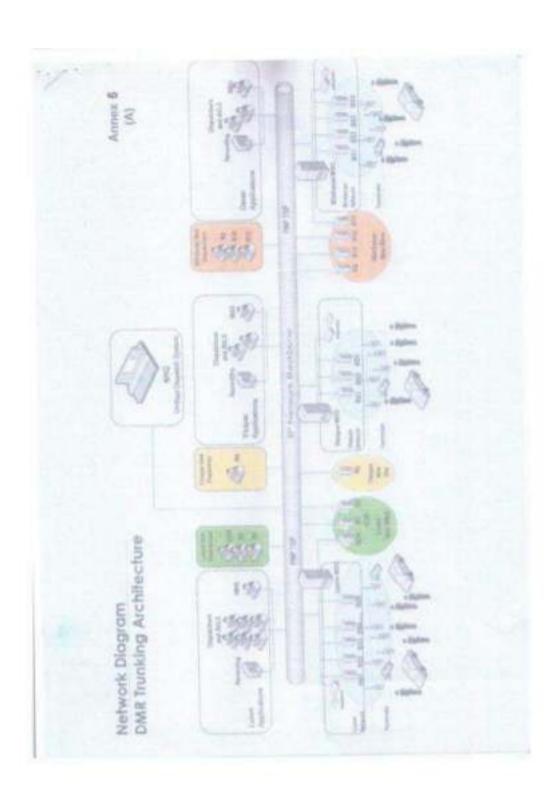
111	9	Police Station 8, Zamboanga Police Office, Brgy Sinunuc, Zamboanga City	PNP	Requires New Antenna Post at the roofkap	PNP personnel	PNP Certification
112		Valencia City Police Station, Brgy Poblacion, Valencia City, Bukidnon	PNP	Requires New Antenna Post at the roofisp	PNP personnel	PNP Certification
113		Maramag Police Station, Brgy North Poblacion, Maramag, Bukidnon	PNP	Requires New Antenne Post at the roofkop	PNP personnel	PNP Certification
114		Mambajao Police Station, Grgy Poblacion, Mambajao, Camiguin	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
115		Mahinog Police Station, Birgy Poblacion, Mahinog, Camiguin	PNP	Requires New Anternal Post at the rooftop or side	PNP personnel	PNP Certification
116		Kapatagan Police Station, Brgy Poblacion, Kapatagan, Lanso Del Norte	PNP	Requires New Antenna Post at the rooflog.	PNP personnel	PNP Certification
117		Tubod Police Station, Brgy Poblacion, Tubod, Lanao Del Norte	PNP	Requires New Artenna Post at the roofice	PNP personnel	PNP Certification
118		Aloran Police Station, 9rgy Ospital, Aloran, Misamis Occidental	PNP	Flequins New Antenna Post at the rooftop	PNP personnel	PNP Certification
119	10	Lopez Jaena Police Staffon, Brgy Eastern, Lopez Jaena, Misamis Occidental	PNP	Requires New Antenna Post at the roofbay or side	PNP personnel	PNP Certification
120		Jasaan Police Station, Brgy Poblacion, Jasaan, Misamis Oriental	PNP	Regulates have Antonna Post at the roofice	PNP personnel	PNP Certification
121		Tagoloan Police Station, Brgy Poblacion, Tagoloan, Misamis Oriental	PNP	Requires Now Antenna Post at the moftop	PNP personnel	PNP Cersification
122		Cagayan De Oro City Police Office, Brgy 40, Cogon, Cagayan De Oro City	PMP	Requires New Antenna Post at the rooflop or side	PNP personnel	PNP Certification
123		Police Station 8, Cagayan De Oro City Police Office, Brgy Lumble, Cagayan De Oro City	PNP	Requires New Antenna Post at the roofkop	PNP personnel	PNP Certification
124		lligan City Police Office, Camp Tomis Cabili, Brgy Tipanoy, Iligan City	PNP	Requires New Antenna Post at the roofisp or sale	PNP personnel	PNP Certification
125		Police Station 5. Higan City Police Office, Brgy Poblacion, Higan City	PNP	Requires New Antenna Post at the routing	PNP personnel	PNP Certification
126	11	Island Garden City of Samai Police Station, Brgy Penaptata, Samai District Island Garden City of Samai	PNP	with Antenna Post at the routing	PNP personnel	PNP Certification
127		Talaingod Police Station, Sto Nino, Talaingod, Davao Del Norte	PNP	Requires New Antenna Pest at the mortop	PNP personnel	PNP Certification

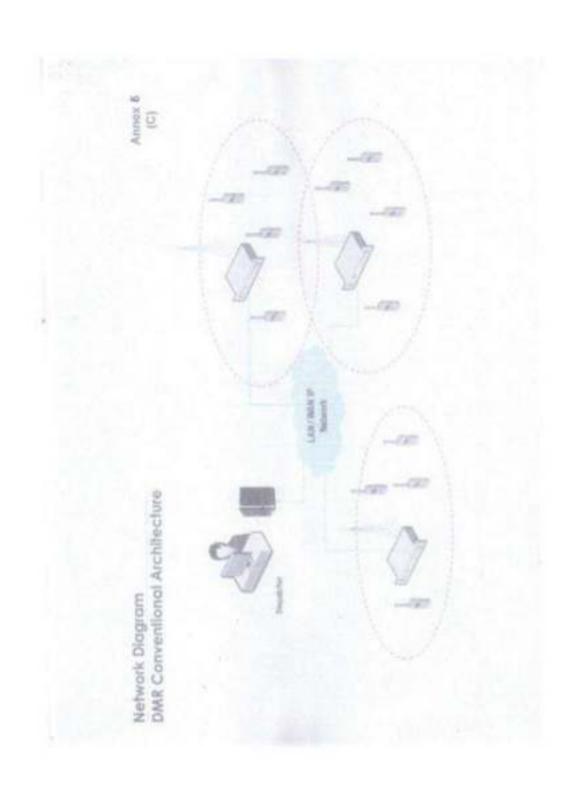
128		Matanao Police Station, Purok Tahimik, Brgy Poblacion, Matanao, Daveo Del Sur	PNP	Post at the rooftop	PNP personnel	PNP Certification
129		Bansalan Police Station, Brgy Poblacion Dos, Bansalan, Davao Del Sur	PNP	Requires New Anterna Foot at the roofkap	PNP personnel	PNP Certification
130		Boston Police Station, Brgy Poblacion, Boston, Daviso Oriental	PNP	Requires New Antenna Post at the roofing	PNP personnel	PNP Certification
131		Baganga Police Station, Brgy Central, Baganga, Davao Oriental	PNP	Requires New Antenna Post at the roofup	PNP personnel	PNP Certification
132	11	Compostella Police Station, Brgy Poblacion, Compostella, Compostella Valley	PNP	with Ardenna Post at the side	PNP personnel	PNP Certification
133		Montevista Police Station, Brgy Poblacion, Montevista, Compostella Valley	PNP	Requires New America Poel at the roofing	PNP personnel	PNP Certification
134		Sta Maria Police Station, Brgy Poblacion, Sta Maria, Daviso Occidental	PNP	Requires New Antenna Post at the roofking	PNP personnel	PNP Certification
135		Don Marcelino Police Station, Brgy Lawa, Don Marcelino, Davao Occidental	PNP	Reguless New Antonna Pred at the rooftap or sale	PNP personnel	PNP Certification
136		Police Station 9, Daviso City Police Office, Tugbok District, Brgy Mintal, Daviso City	PNP	Forgures New Antenna Post at the roofice	PNP personnel	PNP Certification
137		Police Station 11, Daviso City Police Office, Bagulo District, Daviso City	PNP	Placy, trees Triess Antonno Post at the rooftop	PNP personnel	PNP Certification
138	12	Banislan Police Station, Banislan, Cotabato	PNP	Requires New America Post at the rooftop or side	PNP personnel	PNP Certification
139		Carmen Police Station, Brgy Poblacion, Carmen, Cotabato	PNP	Flequiess flow Antonna Post at the sale	PNP personnel	PNP Certification
140		Gian Police Station, Brgy Taluya, Gian, Sarangani Province	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
141		Maiungon Police Station, Brgy Poblacion, Maiungon, Sarangani Province	PNP	Requires New Antenna Post at the moftop or olde	PNP personnel	PNP Certification
142		Lambayog Police Station, Brgy Poblacion, Lambayog, Sultan Kudarat	PNP	Plaquines New Antenna Post at the reoflop or side	PNP personnel	PNP Certification
143		Polomoloc Police Station, Brgy Magsaysay, Polomoloc, South Cotabato	PNP	Requires New Anterna Post at the orde	PNP personnel	PNP Certification
144		Police Station 7, General Santos City Police Office, Purok 11B, Brgy Fatima, General Santos City	PNP	Requires New Anterna Post at the ode	PNP personnel	PNP Certification

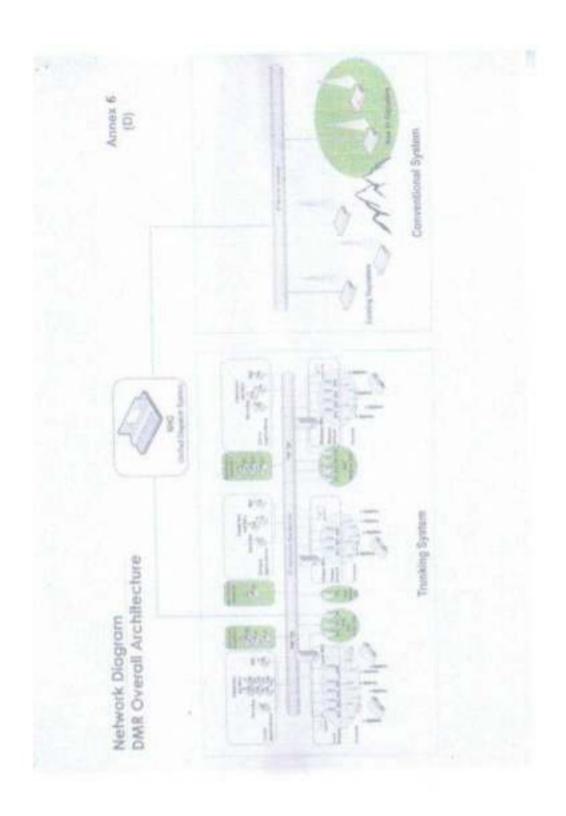
145		Police Station 8, General Santos City Police Office, Brgy Tinagacan, General Santos City	PNP	with Antenna Post at the side	PNP personnel	PNP Certification
146	12	Sen Ninoy Aquino Police Station, Sen Ninoy Aquino, Sultan Kudarat	PNP	with Antenna Post at the side	PNP personnel	PNP Certification
147		Tupi Police Station, Brgy Poblacion, Tupi, South Cotabato	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
148		Police Station 5. Butuan City Police Office, San Mateo, Butuan City	PNP	with 20 % Antenna Post at the side	PNP personnel	PNP Certification
149		Police Station 4, Butuan City Police Office, Ampayon, Butuan City	PNP	with 20 ft Antenna Plast at the side	PNP personnel	PNP Certification
150		Surigao City Police Station, Borromeo St., Surigao City	PNP	with Antonna Pool at the side	PNP personnel	PNP Certification
151		Claver Police Station, Claver, Surigao del Norte	PNP	Requires Now Antenna Foot at the rooftop or side	PNP personnel	PNP Certification
152		Barobo Police Station, Barobo, Surigao del Sur	PNP	with 20 ft Antenna Ptuil at the side	PNP personnel	PNP Certification
153	13	Bissig City Police Station, Brgy Poblacion, Bissig City, Surigate del Sur	PNP	with 20 ft Antenna Flool at the rootion	PNP personnel	PNP Certification
154		Bayugan City Police Station, Bayugan City, Agusan Del Sur	PNP	with 20 it Antenna Post at the roofup	PNP personnel	PNP Certification
155		Trento Police Station, Trento, Agusan Del Sur	PNP	with 20 th Antonna Post at the side	PNP personnel	PNP Certification
156		Cabadbaran City Police Station. Cabadbaran City, Agusan Del Norte	PNP	with 20 ft Antonina Post at the side	PNP personnel	PNP Certification
157		Carmen Police Station, Carmen, Agusan Del Norte	PNP	with 20 ft Antenna Post at the side	PNP personnel	PNP Certification
158		Cagdianao Police Station, Cagdianao, Dinagat island	PNP	with 20 h.Antenna Post at the side	PNP personnel	PNP Certification
159		San Jose Police Station, San Jose, Dinagat Island	PNP	Regulate New Attennal Post at the roofisp or side	PNP personnel	PNP
160	B A K S S	Picong Police Station, Brgy Tual, Picong, Lanao Del Sur	PNP	1000wgm	PNP personnel	PNP Centification
161		Saguiran Police Station, Brgy Poblacion, Saguiran, Lanao Del Sur	PNP	400spn	PNP personnel	PNP Certification
162		Tipo-Tipo Police Station, Tipo-Tipo Proper, Tipo-Tipo, Basilan	PNP	400sgn	PNP personnal	PNP Certification

63		Maluso Police Station, Brgy Townsite. Maluso, Basilan	PNP	SChapn	PNP personnel	PNP Certification
64		Talayan Police Station, Brgy Poblacion, Talayan, Maguindanao	PNP	400eqm	PNP personnel	PNP Certification
165		Pangutaran Police Station, Brgy Poblacion, Pangutaran, Sulu	PNP	400sgm	PNP personnel	PNP Certification
166		Simunul Police Station, Brgy Tubig- Indangan, Simunul, Tawi-Tawi	PNP	1200wgm	PNP personnel	PNP Certification
167		Cotabato City Police Office, PC Hill, Rosary Heights, Cotabato City	PNP	Poques New Antenna Poet at the roofkop or side	PNP personnel	PNP Certification
168		Police Station 3, Cotabato City Police Office, Brgy Datu Balabaran, Cotabato City	PNP	100agm	PNP personnel	PNP Certification
169		Datu Saudi Ampatuan Police Station, Brgy Salbu, Datu Saudi Ampatuan, Parang Maguindanao	PNP	490sqm	PNP personnel	PNP Certification
170		Panglims Tahii Police Station, Brgy Poblacion, Panglims Tahii, Sulu	PNP	Requires New Antonna Post at the roofing or side	PNP personnel	PNP Certification
171		Sibuto Police Station, Brgy Haji Bidin, Sibuto, Tawi-Tawi	PNP	Sittingen	PNP personnel	PNP Certification
172	COR	Flora Police Station, Brgy Poblacion West, Flora, Apayao	PNP	Post at the side	PNP personnel	PNP
173		Putdol Police Station, Putdol, Apayao	PNP	Requires him Antenna Post at the roofup or side	PNP personnel	PNP Certification
174		Bangued Police Station, Bigy Torrijos St., Zone 5, Bangued, Abra	PNP	Pagetes New Antenne Post at the roofup or side	PNP personnel	PNP Certification
175		Baguio City Police Office, Abanao St., Baguio City	PNP	Requires New Antenna Post at the rooftsp or side	PNP personnel	PNP Certification
176		Police Station 2, Bagulo City Police Office, Magsaysay Ave., Bagulo City	PNP	Requires New Antenna Post at the roofing or side	PNP personnel	PNP Certification
177		PMFC, Camp Molintas, Bangao, Bugulas, Benguet	PNP	Plaquins New Antenna Place at the roofisp or side	PNP personnel	PNP Certification
178		Sablan Police Station, Brgy Poblacion, Sablan, Benguet	PNP	Post at the rooftop or order	PNP personnel	PNP Certification
179		Alfonso Lista Police Station, Brgy Sta Maria, Alfonso Lista, Ifugao	PNP	Post at the rooftop or side	PNP personnel	PNP Certification
180		Lagawe Police Station, Brgy Poblacion North, Lagawe, Ifugao	PNP	Requires flavor Antennia Floral at the roofisp or side	PNP personnel	PNP Certification

81	COR	Lubuagan Police Station, Brgy	PNP	Requires New Artenna Post at the rooftop or side	PNP	PNP
-		Poblacion, Lubuagan, Kalinga Tabuk City Police Station, Brgy	PNP	Requires New Antenna	PNP	PNP Certification
-		Dagupan Centro, Tabuk City, Kalinga Bauko Police Station, Brgy	PNP	Post at the rooftep or side Requires New Antonna	PNP	PNP
83		Kaquimongan, Abatan, Bauko,	1,461,	Post at the rooting or side	personnel.	Certification
84		Bontoc Police Station, Bontoc, Mountain Province	PNP	Finguires New Antenna Finet at the rooftop or side	PNP personnel	Certification
85	48	San Jose Police Station, San Jose,	PNP	Requires New Antennia Post at the roofce or side	PNP	PNP
86		Occidental Mindono Magsaysay Police Station,	PNP	Requires New Antenna Post at the roofing or side	PNP	PNP
187		Magsavsav, Occidental Mindorm Boac Police Station, Boac,	PNP	Foot at the roofop or side	PNP	PNP Certification
LNB		Marinducue Gasan Police Station, Brgy Uno,	PNP	Forgums New Antenna Post at the roofing or side	PNP	PNP Certification
189		Gasan, Marinduque Calapan Police Station, Brgy Guinobatan, Calapan City	PNP	Flaguires Now Artenna Post at the rooftop or side	PNP personnel	PNP
190		Roxas Municipal Police Station, Brgy 2. Roxas Palawan	PNP	with Antenna Post at the roofice	PNP personnel	PNP Certification
191		Aborten Municipal Police Station, Brgy Ramon Magsaysay, Abortan, Palawan	PNP	with Antonna Post of the rootiop	PNP personnel	PNP Certification
192		Rombion Municipal Police Station, Cor Mayor St., Rombion Rombion	PNP	with Antenna Post at the routing	PNP personnel	PNP Certification
193		Rombion Police Provincial Office, Brgy Capacian, Rombion Rombion	PNP	Frequent New Arterns Feet at the roofing or side	PNP personnel	PNP
194		Puerto Princesa City Police Office, Police Station 2, Brgy Sta Monica, Puerta Princesa City	PNP	Haquines New Antenna Post at the roofisp or side	PNP personnel	PNP Certification
195		Puerto Princesa City Police Office, Police Station 1, Valencia St., Brgy Model, Puerta Princesa City	PNP	Requires New Arrenna Prost at the routlop or side	PNP personnel	PNP Certification
196		Roxas Municipal Police Station, Camp Gozar, Roxas Oriental Mindoro	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
197	1 085	Four (4) Sets shall be reserved for CES Carrie Crame Quezon City	PNP	received	reserved	neserved







(Annex 7)

DMR CONVENTIONAL REPEATER ALTERNATE SITE INFORMATION LIST

A S	Brgy Poblecon, Ory Laminde of San Jose 14 8390s Demonte, Bulacan Longfude 121 5850e	San Jose Chy PS. Lathade San Jose Numa Ecija 1914748 5271 Longhide 12019841 6976	Adamsa Municipie Larbade 1722 Police Station, Bigs Longhade Poblesion, Alames, 122729E Asien	Brgs, Cambanos, 9.63295379 Lator, Behol 124.0453°E	Careel MPI, Sito 7798345M. Toento, Brgy 131.4508211E. Devision: Cateria.	Bite Cape, Purcis E 125 196658 San Reque, Birgy Lathace Mang, Car tacho, Dones Onemal	Parabo City Lethude New Mailting Parabo City 125'41E	alayan MPS, Pob. 67594.207N, alayan, departement
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3	1,336 tupn	75,287 mps	100 sq.	200 sq.	20 000 Maria	300 sqm	14, 256 spm	400 sapm
-	ž	2	Page Certificati or or	767	707	Resided by LGU	Burde	2
Colourbon	1016	NO.	avos.	North William	Deed of donation	£	Deed of docation	None / Without
Besticity	Yes	VICE.	Commerci al Possor	Yes	ООНЕСС	Opportunia   power	Sperior (power )	VES- LASSABEC O
Physical Security	With Serios	Without fence	With Sence	Without fence, with existing analog repeater	With lence		PtdP personnel	With Sense Prign security
Accessibility	By sefection By land	By send By land	By land	By vehiclar By land Someters from the road	Accessible for vehicles	Accessible for vehicles	Accessible for sericles	By vehicle By land. Along the need
Use Of State seasons 9080	None	None	9000	None	hore	9200	*	None
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## CLARIFICATION LAST PUBLIC BIDDING

	Reference	CONCERN	CLARIFICATION/RESOL UTION
1.	Conduct of Post- Qualification	Who will conduct the post-qualification. The conduct of post-qualification is one of the functions of the Bids and Awards Committee. In the 2018 procurement of DMR equipment the BAC TWG of the Philippine National Police (PNP), Triton Communications Corporation (TCC) emerged as the bidder with the lowest calculated bid. During the post-qualification, the BAC TWG "allowed" Chinese looking employees of Hytera, the other bidder.  The BAC TWG "justified" their participation because they do not know how operate the system. Naturally, with the participation of the other bidder, TCC was post disqualified.  While we reserved action on the propriety of the BAC TWG, we would like to be clarified whether the PS DBM would allow the participation of bidder interested in the result of the procurement process.	The conduct of the post-qualification will be done by the Bids and Awards Committee with the assistance of its Technical Working Group and End-User Agency. In this procurement, post-qualification of bidders offer will be based only on the submitted brochure, un-amended sales literature, unconditional statements or specification and compliance issued by the manufacturer or distributor, samples, independent test data, etc., as appropriate. Functional Testing of samples (offered item) will be done to the winning bidder prior to acceptance of the items subject to conditions stated in the Terms of Reference.
2.		On the requirement of inter-operability, we would like to be clarified whether this will be required considering that: (a) that PNP-Hytera system has not yet been accepted by the PNP; and (b) the Hytera system is not operating per the DMR standard (Tier III), nor operating in compliance to the DMR IOP Certification.	There is a need for interoperability for the DMR procured in 2018 was already accepted by the PNP.  As there is a need for interoperability bidders are required to submit an interoperability solution during Post-Qualification to prove that the offered system is interoperable/compatible with the existing system of the End-User Agency.
3.		We would like to be clarified in case of conflict between the requirements of technical specifications approved by the National Police Commission (NAPOLCOM), which exercises administrative control and operational supervision over the PNP, and the Term of Reference (TOR) prepared by the Communications and Electronics Service (PNP CES), which will govern?	It is the Terms of Reference that will govern which was also based on the approved NAPOLCOM Specifications.
4.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 1	Under all Napolcom Resolution, the Paragraph "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard only defines the air interface between subscriber and base station? DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level.  Moreover, the mandatory IOP features of	The original requirement is retained.  End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user.

		requirements stated in DMR standard are very limited with vendors creating their own proprietary features. Hence the range of compliance can vary depending on actual implementation and use of the existing.  Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with	Bidders are required to submit an integration solution during post-qualification.
		existing DMR MSO provided by different vendors and vice versa.	
5.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 2.a.	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the System Infrastructure Interoperability is not defined in DMR standard? Motorola Solutions has Interoperability certificates with other vendors as defined by DMR standard and hence our radios shall operate on other vendor infrastructure as long as it is DMR standard compliant and for the features stated under Interoperability as per DMR standard. In 2018, our team of DMR experts already conducted a test and found evidence that the existing PNP DMR system at that time did not operate in compliance to the DMR standard, Tier 3 mode of operation, nor comply with DMR IOP certification. Motorola can only upgrade Motorola repeater. The new Motorola DMR repeaters cannot work with DMR MSO provided by different vendors.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
6.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 2.b	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the System Infrastructure Interoperability is not defined in DMR standard? Motorola Solutions has Interoperability certificates with other vendors as defined by DMR standard and hence our radios shall operate on other vendor infrastructure as long as it is DMR standard compliant and for the features stated under Interoperability as per DMR standard. In 2018, our team of DMR experts already conducted a test and found evidence that the existing PNP DMR system at that time did not operate in compliance to the DMR standard, Tier 3 mode of operation, nor comply with DMR IOP certification. Motorola can only upgrade Motorola repeater. The new Motorola DMR repeaters cannot work with DMR MSO provided by different vendors.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.

7.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 2.c	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the System Infrastructure Interoperability is not defined in DMR standard? Motorola Solutions has Interoperability certificates with other vendors as defined by DMR standard and hence our radios shall operate on other vendor infrastructure as long as it is DMR standard compliant and for the features stated under Interoperability as per DMR standard. In 2018, our team of DMR experts already conducted a test and found evidence that the existing PNP DMR system at that time did not operate in compliance to the DMR standard, Tier 3 mode of operation, nor comply with DMR IOP certification. Motorola can only upgrade Motorola repeater. The new Motorola DMR repeaters cannot work with DMR MSO provided by different vendors.	The original requirement is retained. According to the Enduser Agency the existing PNP DMR TIER III system passed the Functional Test and Evaluation and complies with the approved NAPOLCOM Specifications for Digital Radio System.
8.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 2.d	32 carrier capacity means 63 traffic channels which are logically very high. Based on existing operational traffic in PNP, we recommend maximum 10-15 carriers should suffice PNP requirement as per site loading. Motorola supports 15BR for traffic and additional 6 BR for data channels per site. This clause contradicts with NAPOLCOM 2018-803 clause E.4.	As per the End-user Agency that the requirement is hereby fixed to 15 carrier.
9.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 3	Motorola DMR base station can be configured to support both Tier 2 and Tier 3.  Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the System Infrastructure Interoperability is not defined in DMR standard? Motorola Solutions has Interoperability certificates with other vendors as defined by DMR standard and hence our radios shall operate on other vendor infrastructure as long as it is DMR standard compliant and for the features stated under Interoperability as per DMR standard. In 2018, our team of DMR experts already conducted a test and found evidence that the existing PNP DMR system at that time did not operate in compliance to the DMR standard, Tier 3 mode of operation, nor comply with DMR IOP certification. Motorola can only upgrade Motorola repeater. The new Motorola DMR repeaters cannot work with DMR MSO provided by different vendors.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.

10.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 4	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the System Infrastructure Interoperability is not defined in DMR standard?  System Infrastructure Interoperability is not defined in DMR standard. Motorola DMR Tier III System cannot operate with non DMR standard system such as PDT.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-
11.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 8	Motorola radios complies to DMR Tier 3 trunking and roaming as per the DMR standard. Motorola radios can interoperate and roam with existing repeater sites as long as they are fully complying to DMR Tier 3 standard. Motorola DMR Tier III System cannot operate with non DMR standard system such as PDT. Will the existing system allow to connect other brands which complies to DMR standard?	qualification.  The original requirement is retained. According to the Enduser Agency the existing PNP SMR TIER III system passed the Functional Test and Evaluation and complies with the approved NAPOLCOM Specifications for Digital Radio System.
12.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 9.a	There is no proven AVLS system over a single DMR Tier 2/Conventional system of 41 site. Due to load handling for such large system, Can Motorola recommend to consider DMR Tier 3 trunking system with controllers for implementing such large system of 41 sites to enable all the required trunking capability?	To clarify that an AVLS is required for every repeater that would make a total of 41 AVLS as there are 41 conventional repeaters.
13.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 9.b	Motorola only complies to standalone DMR TIER III system for Phase 3 tender only. Motorola DMR Tier III System cannot operate with non DMR standard systems such as PDT. As per DMR standard, there is no defined standard to interface DMR Tier 2 conventional to DMR Tier 3 trunking. However, Can Motorola recommend TG patching be done via Dispatch solution.	The original requirement is retained. According to End-user Agency, IP Interconnection enables conventional repeaters from other PROs/PPOs to be connected to the NHQ via available IP connectivity while TG Patching is only available within radio transmit/receive limits and requires a dedicated radio for every talkgroup. Considering the number of conventional repeaters proposed, TG patching is illogical.
14.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 9.c	Motorola only complies to standalone DMR TIER III system for Phase 3 tender only.  Motorola DMR Tier III System cannot operate with non DMR standard systems such as PDT. Motorola repeaters can be configured both analog and digital modes. However, as analog mode, it cannot connect to digital network directly. Can Motorola recommend to use Dispatch solution using TG patching?	To clarify that the required feature will no longer be required as enduser will be migrating to full digital.
15.	Terms of Reference (TOR)  C. Concept of Implementation  Item No. 11	DMR standard doesn't define any standard for such data application. However, Motorola can provide solution for data query on its own DMR Tier 3 system. Can PNP provide more information on interfacing with PNP's SMS Query system? Please explain further.	Client-Server configuration where the radio terminal can send SMS query and server-side software will send a reply based on available data on the database.  This is a process where the radio terminal can send as SMS query to

			the data server and the server can automatically reply based on its available data.
16.	Terms of Reference (TOR)  D. DMR Communication System Requirements	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard does not define any standard for interoperability between different vendor at system infrastructure or console level? Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with existing DMR MSO provided by different vendors and vice versa.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
17.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.a.4	Separate Site Controller is a vulnerable component creating a point of failure. Hence, in case of Motorola, the site controller is embedded into the individual repeaters itself to provide more than 2 level of controller redundancy (we can program 4 repeaters for controllers)	At least with site redundancy as the minimum.  Site Controller embedded into individual repeaters is acceptable provided it has site redundancy.
18.	Terms of Reference (TOR)  D. DMR Communication System Requirements Item No. 1.a.10	We support AES 256 E2E Encryption. This is applicable for radios operating on our own repeaters as well as Dispatcher. We provide End to End Encryption in system at Radio and Dispatcher level.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
19.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.a.12	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard only defines the air interface between subscriber and base station? DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level. Moreover, the mandatory IOP features or requirements stated in DMR standard are very limited with vendors creating their own	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.

20.	Terms of Reference	proprietary features. Hence the range of compliance can vary depending on actual implementation and use of the existing. Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with existing DMR MSO provided by different vendors and vice versa.  Under all Napolcom Resolution, The Paragraph,	The original requirement is
	D. DMR Communication System Requirements Item No. 1.a.13	"WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard only defines the air interface between subscriber and base station? DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level. Moreover, the mandatory IOP features or requirements stated in DMR standard are very limited with vendors creating their own proprietary features. Hence the range of compliance can vary depending on actual implementation and use of the existing. Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with existing DMR MSO provided by different vendors and vice versa.	retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
21.	Terms of Reference (TOR)  D. DMR Communication System Requirements Item No. 1.a.14	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard only defines the air interface between subscriber and base station? DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level. Moreover, the mandatory IOP features or requirements stated in DMR standard are very limited with vendors creating their own proprietary features. Hence the range of compliance can vary depending on actual implementation and use of the existing. Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with existing DMR MSO provided by different vendors and vice versa.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
22.	Terms of Reference (TOR) D. DMR	Under all Napolcom Resolution, The Paragraph, "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the
l	Communication	any commercial brand of product and will	same geographical location nor

	<del>,</del>		
	System Requirements  Item No. 1.a.15; 1.a.15.1.1; 1.a.15.1.2; 1.a.15.1.3; 1.a.15.1.5; 1.a.15.1.5; 1.a.15.1.6; 1.a.15.2.1 1.a.15.2.2 1.a.15.3.1 1.a.15.3.4	enable participation by all interested manufacturer/suppliers in the market". How will the existing system allow participation of all interested manufacturers/suppliers when the DMR standard only defines the air interface between subscriber and base station? DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level. Moreover, the mandatory IOP features or requirements stated in DMR standard are very limited with vendors creating their own proprietary features. Hence the range of compliance can vary depending on actual implementation and use of the existing. Hence Motorola only complies to standalone DMR TIER III and TIER II systems. The new Motorola DMR repeaters cannot work with existing DMR MSO provided by different vendors and vice versa.	can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
23.	Terms of Reference (TOR)  D. DMR Communication System	Same with Item No. 1.a.15;  Moreover, DMR does not define any standard for this and I based on vendor implementation.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR
	Requirements  Item No. 1.a.15.1.4;		equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
24.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.a.15.1.7;	Same with Item No. 1.a.15;  Motorola can provide voice recording within our Dispatcher solution rather than external voice logger solution offered by other vendor. WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturer/suppliers in the market". How will the existing system can comply to the Napolcom Resolution of allowing other brand to participate?	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
25.	Terms of Reference (TOR)  D. DMR Communication System Requirements	Same with Item No. 1.a.15;  Motorola can do it within our own repeaters for new Ph3 requirement using our Dispatcher solution. Moreover, we can control and define the update frequency for GPS pooling remotely from control room.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of
	Item No. 1.a.15.3.2		money - thus the need for inter-

	Item No. 1.a.15.3.3		system interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
26.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.c.1	What is the existing system? The term Upgrading is using the same system or using the same brand.  Motorola cannot upgrade the existing repeater channel because the existing system is of other brand.  Motorola cannot upgrade the existing repeater channel because the existing system is of other brand. "WHEREAS, the specifications for Digital Trunked Radio System (DTRS) for DMR Standard are not tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market." How will the existing system comply to the NAPOLCOM Resolution of allowing other brand to participate?	As clarified, UPGRADING as used in the Terms of Reference means increasing the number of available channels provided integrated and manage by its original Management Station
27.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.c.2	DMR standard does not define any standard for interoperability between different vendors at system infrastructure or console level. Motorola only complies to standalone DMR TIER III system for Phase 3 tender only. Motorola proposes 7 new sets of Dispatch system for Phase 3 tender. How will the existing system comply to the Napolcom Resolution of allowing other brand to participate?	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
28.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.d.1.5	Interoperability is not defined in DMR standard at system infrastructure level. Motorola only complies to standalone DMR TIER III system for Phase 3 tender only. How will the existing system comply to the Napolcom Resolution of allowing other brand to participate?	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
29.	Terms of Reference (TOR)	Interoperability is not defined in DMR standard at system infrastructure level. Motorola only complies to standalone DMR TIER III system	The original requirement is retained. End-User Agency cannot compromise the interoperability of

	D. DMR Communication	for Phase 3 tender only. How will the existing system comply to the Napolcom Resolution of	the radios it uses especially on the
	System Requirements	allowing other brand to participate?	same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of
	Item No. 1.d.2		money - thus the need for inter- system interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post- qualification.
30.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.d.3	As per DMR standard, there is no such Console Subsystem Interface to define interconnection between two different systems. The only possible interconnection is via TG patch using input/output/PPT pins of radio/repeater. This is proprietary feature that can be done only by existing vendors and eliminates the open tender.	The original requirement is retained. According to the Enduser Agency, TG Patching is not feasible for inter-PRO communication due to distance limitation.
31.	Terms of Reference (TOR)  D. DMR Communication System Requirements  Item No. 1.d.4	Motorola can do it in our own new DMR Tier 3 system for Ph3 but not with existing system. This is also not defined in existing DMR standard mandatory interoperability guidelines. This is again vendor specific requirements unduly favouring existing vendor.	The original requirement is retained. End-User Agency cannot compromise the interoperability of the radios it uses especially on the same geographical location nor can set aside existing DMR equipment where the government already invested huge amounts of money - thus the need for intersystem interoperability. Interested bidders should find ways and solutions to integrate their offered item with the existing DMR equipment of the end-user. Bidders are required to submit an integration solution during post-qualification.
32.	Terms of Reference (TOR) D.DMR	Clarification on how will this be group together.	Terminology may vary for every vendor.  To clarify that every dispatch
	Communication System Requirements Item No. 1.d.6.3		console for the conventional repeaters shall support at least 500 radio users.
33.	Terms of Reference (TOR)  D. DMR Communication System Requirements	Need clarification: track the transmitting radios directly or via application?	To clarify that these portion of the contract will be omitted for it belong to the feature of dispatching software
	Item No. 1.e.1.6 Item No. 1.e.2.5 Item No. 1.e.3.5 Item No. 1.e.4.5		

34.	Bid Data Sheet  ITB Clause 20.2  Item No. 3	Requires the Certificate of Satisfactory Completion. PNP issues a different standard for a certificate of completion, should be acceptable since the "satisfactory" is not reflected on the certificate.	ITB Clause 20.2 – 3 (d) To clarify that: "Certification of Completion" can be accepted as proof of completion of the single largest contract as identified in the Statement of Single Largest Contract.
35.	Bid Data Sheet  ITB Clause 20.2  Item No. 7, 8, 9	For items 7,8,9 Post Qualification Documents  If Joint Venture, Is it acceptable that at least one member of the JV will submit the required documents?	At least one (1) member of the JV will submit the required documents.
36.	Bid Data Sheet  ITB Clause 21.1  Item No. 1	Since this is still in the Procurement Stage, we suggest that this requirement be provided by the winning bidder before the training	To clarify that the Twenty (20) sets of Service Manuals for the procured DTRS will be provided by the winning bidder before the training.
37.	Bid Data Sheet  ITB Clause 21.1  Item No. 2	We suggest that this requirement will be issued by the winning bidder after the NTP.	To clarify that the Certification of Non Disclosure for the Implementation of the project shall be issued after the NTP.
38.	Special Conditions of the Contract  GCC Clause 2.2	The Payment condition is commercially strict to prospective bidders. We suggest the following payment conditions:  15% after NTP  50% after preliminary acceptance test  35% after the final acceptance	The original requirement is retained.  To clarify that the winning bidder is not precluded from requesting to PS-DBM a request for partial payment subject to approval by the Head of Procuring Entity.
39.	Mayor's Permit	Since the Bid Submission falls on the first working day of 2021 which is also the first day to file Business Permit Renewal, please allow submission of the 2020 business permit, subject to submission of the 2021 business permit during Post Qualification, Other LGU will only process business permit renewals starting January 4, 2021.	Three (3) bid bulletin were already issued extending the submission and opening of bids.
40.	Section VII. Technical Specifications Annex E. Resolution No. 2016-803  Terms of Reference H. Requirements for Bidders  Item No. 9	There is a conflicting instruction in the TOR and the BDS. In the TOR it mentioned that if JV, at least one has the PCAB license but on the BDS it did not mention that at least one member of the JV has the PCAB License with SCF.	To clarify that at least one (1) member of the JV has PCAB-License with SCF.

41.	Terms of Reference (TOR)	Only Hytera can work with	The End-user Agency clarified
	C. Concept of Implementation	existing MSO	that the interested bidders should find ways to interoperate with the existing DMR of the end-user,
	Item No. 4		PNP DMR.
			Bidders are required to submit an integration solution during post-qualification.
42.	Terms of Reference (TOR)	Only Hytera can do Seamless HO to existing T3	To clarify that the word "seamless" will be omitted on the
	C. Concept of Implementation	sites.	TOR. However, terminals should be compatible with all trunking
	Item No. 6		sites
43.	Terms of Reference (TOR)	Unified communication system is only for Hytera	The End-user Agency clarified that the DMR standard only
	C. Concept of Implementation	system.	defines the air interface between subscriber and base station.
	Item No. 9	Unified communication system must be standard based using AIS or CSI interface	Interested bidders should find ways to interoperate with the existing DMR of the end-user. PNP DMR.
			Bidders are required to submit an integration solution during post-qualification.
44.	Terms of Reference (TOR)  C. Concept of Implementation	Only Hytera can support up to 500 characters	The End-user Agency clarified that the Reply to queries shall support the standard SMS length
45.	Item No. 11 Terms of Reference (TOR)	Only Hytera requires site	of 160 characters per message The End-end User Agency
45.	D. DMR Communication System	controller. Can we propose system that does not require site controller but	The End-end User Agency clarified that it must support as stand-alone trunking site if the link to the MSO becomes
	Requirements	with redundancy.	unavailable.
46.	Item No. 1.a.4 Terms of Reference (TOR)	Hytera hardware features	Uphold 3-way diversity due to
70.		riytera riaruware reatures	limited number of sites available
	D. DMR Communication System Requirements		
	Item No. 1.a.8		
47.	Terms of Reference (TOR)	Only compatible with Hytera	The End-user Agency clarified that the requirement must be at
	D. DMR Communication System Requirements		least integrated with the following features: voice, data and GPS tracking.
	Item No. 1.a.12		<del> </del>
48.	Terms of Reference (TOR)	Hytera feature	Uphold interconnection via IP connectivity because interregional
	D. DMR Communication System Requirements		connectivity via radio terminal is not feasible
	Item No. 1.a.13		

49.	Terms of Reference (TOR)	Requesting to do actual test	End-user Agency can
	D. DMR Communication Sys Requirements	using Tier III compatible	accommodate interested bidders willing to conduct testing with proper coordination.
	Item No. 1.a.4		
50.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements  Item No. 1.a.15 Item No. 1.a.15.1 Item No. 1.a.15.2 Item No. 1.a.16.3	Only Hytera can interoperate with existing Dispatch system. System is not open and not interoperable as previously tested.	The End-user Agency clarified that the interested bidders should find ways to interoperate with the existing DMR of the end-user. PNP DMR.  Bidders are required to submit an integration solution during post-qualification.
51.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements  Item No. 1.c.1	Only Hytera channel units can be used for upgrade tem	Increase/expand the number of channel at the required sites
52.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements	Only Hytera dispatch consoles can be supported by Hytera dispatch server.	Provide dispatch server if existing server could not accommodate the required licenses
53.	Item No. 1.c.2 Terms of Reference (TOR)  D. DMR Communication Sys Requirements Item No. 1.d.1.3 Item No. 1.d.1.4	Hytera repeater with display	Required on the NAPOLCOM Specification.
54.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements  Item No. 1.d.2	Only Hytera can interoperate with existing Dispatch system. System is not open and not interoperable as previously tested.	The End-user Agency clarified that the interested bidders should find ways to interoperate with the existing DMR of the end-user. PNP DMR.  Bidders are required to submit an integration solution during post-qualification.
55.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements  Item No. 1.d.4	Requesting to do actual test using Tier III compatible subscriber units	End-user Agency can accommodate interested bidders willing to conduct testing with proper coordination
56.	Terms of Reference (TOR)  D. DMR Communication Sys Requirements  Item No. 1.d.6 Item No. 1.d.6.8	Hytera feature	The End-user Agency clarified that the GPS tracking by time and/or distance is a common feature.

57.	Terms of Reference (TOR)	Hytera feature	As per End-user Agency that this requirement will be disregard this
	D. DMR Communication System Requirements		part because it is a feature of the GPS Tracking software.
	Item No. e		
	Item No. e.1		
	Item No. e.1.6		
	Item No. e.2		
	Item No. e.2.5		
	Item No. e.3		
	Item No. e.3.5		
58.	Terms of Reference (TOR)	Can we test our subscriber unit with DMR Tier 3 IOP	End-user Agency can accommodate interested bidders
	G. Terms and Conditions	certification to work on existing PNP Tier 3 system.	willing to conduct testing with proper coordination.
	Item No. 10		

# Section VIII. Checklist of Technical and Financial Documents

## **Checklist of Technical and Financial Documents**

#### I. TECHNICAL COMPONENT ENVELOPE

Legal Documents

П

(b)

(c)

## Class "A" Documents (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document, Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;

Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved (d) by the Bureau of Internal Revenue (BIR).

#### **Technical Documents**

and

- (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid: and
- Statement of the bidder's Single Largest Completed Contract (SLCC) (f) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents;
- Original copy of Bid Security. If in the form of a Surety Bond, submit also a (g) certification issued by the Insurance Commission;

Original copy of Notarized Bid Securing Declaration; and

- Conformity with the Technical Specifications, which may include (h) production/delivery schedule, manpower requirements, and/or aftersales/parts, if applicable; and
- Original duly signed Omnibus Sworn Statement (OSS); (i) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

#### Financial Documents

The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and

	(k)	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC);
		or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.
		Class "B" Documents
	(1)	If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;
		<u>or</u>
		duly notarized statements from all the potential joint venture partners stating
		that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.
		instance that the old is successful.
Oth	her do	cumentary requirements under RA No. 9184 (as applicable)
		[For foreign bidders claiming by reason of their country's extension of
		reciprocal rights to Filipinos] Certification from the relevant government
		office of their country stating that Filipinos are allowed to participate in
		government procurement activities for the same item or product.
	(n)	Certification from the DTI if the Bidder claims preference as a Domestic
		Bidder or Domestic Entity.
FIN	IANC	IAL COMPONENT ENVELOPE
	(a)	Original of duly signed and accomplished Financial Bid Form; and
	(b)	Original of duly signed and accomplished Price Schedule(s).

II.

## **Bid Form**

: <b>PS-DB</b> l		Invitation to Bid No: PB No.	21-030-10					
. <b>DC DD</b> )								
Procure PS Com	PS-DBM BAC X Chairperson Procurement Service PS Complex, RR Road Cristobal St., Paco, Manila							
entlemen and	or Ladie	s:						
	ceipt of v /ERY, DE IG OF I	which is hereby duly acknowledged, we still in the street of the street	e, the undersige, <b>TESTING</b> , <b>T</b>	gned, offer to RAINING ANI				
em Qty	/Unit	Items/Description	Unit Price	Total Price				
		Supply, Delivery, Design, installation, programming, testing, Training and commissioning of Digital Radio System						
5,507	unit/s	HANDHELD RADIO TRANSCEIVER						
200	unit/s	BASE RADIO TRANSCEIVER						
1,500	unit/s	MOBILE RADIO TRANSCEIVER						
41	unit/s	DIGITAL TRUNKED RADIO SYSTEM						
8	unit/s	DIGITAL CONVENTIONAL RADIO REPEATER						
		TOTAL LOT I	BID PRICE:					
1	PS Come Cristoble entlemen and Having	PS Complex, RR Cristobal St., Pa  Internal and/or Ladie Having examine	PS Complex, RR Road Cristobal St., Paco, Manila  Intlemen and/or Ladies:  Having examined the Bidding Documents includin J, the receipt of which is hereby duly acknowledged, w PPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING MMISSIONING OF DIGITAL RADIO SYSTEM for Philiphore Informity with the said Bidding Documents.  Em Qty/Unit Items/Description Ite	PS Complex, RR Road Cristobal St., Paco, Manila  Intlemen and/or Ladies:  Having examined the Bidding Documents including Bid Bulle J, the receipt of which is hereby duly acknowledged, we, the undersigned present the programming of the progr				

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Section VI. Schedule of Requirements.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Section VI. Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in <u>BDS</u> provision for **ITB** Clause 14.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per **ITB** Clause 5 of the Bidding Documents.

I/We likewise certify/confirm that the undersigned, [for sole proprietorships, insert]: as the owner and sole proprietor or authorized representative of [Name of Bidder], has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the [Name/Title of the Project.]

Or;

I/We likewise certify/confirm that the undersigned, [for partnerships, corporations, cooperatives, or joint ventures, insert]: is granted full power and authority by the [Name of Bidder], to participate, submit the bid and to sign and execute the ensuing contract on the latter's behalf for [Name/Title of the Project.]

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Dated this	day of	20	
[signature]		[in the capacity of]	
Duly authorized to sign Bid	for and on be	ehalf of	

## **Schedule of Prices for Goods Offered From Abroad**

Name of Bidder:					PB No	o. 21-030-10	Page of _	
1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)
						CT.		
	gnature] ly authoriz	ed to sign	Bid for a	<i>[in the</i> and on behalf of	capacity o			

## **Schedule of Prices For Goods Offered From Within the Philippines**

Name of Bidder:				PB No. 21-030-10 Page of					
1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportatio n and Insurance and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)
	[signature		gn Bid for a		[in the capa				

#### **Omnibus Sworn Statement (Revised)**

[shall be submitted with the Bid]

_	
REPUBLIC OF THE PHILIPPINES ) CITY/MUNICIPALITY OF ) S.S.	

#### **AFFIDAVIT**

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

#### 1. [Select one, delete the other:]

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

#### 2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards;
- 8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity;
- 10. [Name of Bidder] hereby assigns the following contact number/s and e-mail address/es as the official telephone/fax number and contact reference of the company where the PS BAC and PS notices may be transmitted.

Telephone No/s.:	
Fax No/s.:	
E-mail Add/s.:	
Mobile No.:	

It is understood that notices/s transmitted in any of the above-stated telephone/fax numbers and/or e-mail address/es are deemed received as of its transmittal and the reckoning period for

Rules and Regulations of Republic Act No	o. 9184 shall commence from receipt thereof.
IN WITNESS WHEREOF, I have I, Philippines.	hereunto set my hand this day of, 20 at
	Bidder's Representative/Authorized Signatory
Philippines. Affiant/s known to me, and known government identification card used*], with his	nis day of [month] [year] at [place of execution], n to be the same person/s in the exhibited [insert type of s/her photograph and signature appearing thereon, with at
Witness my hand and seal this day of [mo	nth] [year].
Doc. No Page No Book No Series of	NAME OF NOTARY PUBLIC Serial No. of Commission Notary Public for unitil Roll of Attorney's No PTR No [date issued], [place issued] IBP No [date issued], [place issued]
Defice of	

the reglementary periods stated in the bidding documents and the 2016 revised Implementing

\*The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.

"Sec. 12. Competent Evidence of Identity – The phrase "competent evidence of identity" refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;

The Board Resolution or Secretary's Certificate referring to the said Board Resolution designating the bidder's authorized representative and signatory need not specifically indicate the particular project where such authority is given provided that the said authority covers activities by PS.

#### STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE **BID** This is to certify that \_\_\_\_\_ (company) has the following completed contracts for the last five (5) years. Bidder is Date of A. Manufactur Date Name of Kind of **Delivery**/ **Date of Official Contracting** Amount of of the er **Party** Contract **Goods Sold** Contract **End-user's** Receipt B. Supplier Contract **Acceptance** C. Distributor Name and Signature of Date Authorized Representative

#### Instructions:

- a) Cut-off date as of:
  - (i) Up to the day before the deadline of submission of bids.
- b) In the column under "Dates", indicate the dates of Delivery/ End-user's Acceptance and Official Receipt.
- c) "Name of Contract". Indicate here the Nature/ Scope of the Contract for the Procuring Entity to determine the relevance of the entry with the Procurement at hand. Example: "Supply and Delivery of Paper Products"

	Statement of: (i) Ongoing Contracts and; (ii) Awarded But Not Yet Started Contracts						
This	This is to certify that (company) has the following ongoing and awarded but not yet started contracts:						
Date of the Contract	Contracting Party	Name of Contract	Kind of Goods Sold	Amount of Contract	Value of Outstanding Contracts	Bidder is A) Manufacturer B) Supplier C) Distributor	
	Name and Signature of Date						
	Auth	norized Representative					

#### **Instructions:**

- a) State <u>all</u> ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:
  - i. The day before the deadline of submission of bids.
- b) If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
- c) The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC) in case an NFCC is submitted as an eligibility document. "Name of Contract". Indicate here the Nature/Scope of the Contract for easier tracking of the entries/ representations. Example: "Supply and Delivery of Paper Products"

### JOINT VENTURE AGREEMENT

#### KNOW ALL MEN BY THESE PRESENTS:

This JOIN	T VENTURE AGI	REEMENT (hereinat	ter referred to as	the "Agreement"), entered
into this	day of	20 at	City, Philipp	oines by and among:
		a domestic corpora	ntion duly organiz	zed, registered and existing
under and	by virtue of the la	aws of the Republic	of the Philippin	es, with office address at
		_, represented by	its	,
hereinafter	referred to as "	·"·		
		- ar	d -	
		a domestic	corporation duly	y organized, registered and
existing un	der and by virtue of	the laws of the Repu	olic of the Philipp	ines, with office address at
			, represented by	its,
	, herei	nafter referred to as "		". 
		- ar	d -	
				a foreign corporation
organized a	and existing under a	nd by virtue of the law	vs of	, represented by
its	,,	, he	reinafter referred	to as "";
	(Hen	ceforth collectively re		Parties"
	Apply for Eligibility		oply and Delivery	tly published an Invitation of

	WHEREAS, the parties have agreed to pool their resources together to form the Joint Venture", hereinafter referred to as the Joint Venture, under the laws
of the I DBM;	Philippines, for the purpose of participating in the abovementioned procurement of PS-
	NOW, THEREFORE, for and in consideration of the foregoing premises and the nts hereto set forth, the Parties have agreed as follows:
	ARTICLE I ORGANIZATION OF THE JOINT VENTURE
and org	ON 1. Formation – The Parties do hereby agree and bind themselves to establish, formanize a Joint Venture pursuant to the laws of the Republic of the Philippines, in order for co carry on the purposes and objectives for which it is created;
	SECTION 2. Name – The name and style under which the JV shall be conducted is "";
	SECTION 3. Principal Place of Business – The JV shall maintain its principal place of business at;
of the P	ON 4. Preparation and Documentation – The Parties shall secure and/or execute such ations, documents, deeds and instruments as may be required by the laws of the Republic Philippines for the realization of the JV and in compliance with the Project. Further, they all other acts and things requisite for the continuation of the JV pursuant to applicable
1	SECTION 5. The Joint Venture shall be represented by the in all biddings, related procurement transactions and other official dealings that it shall enter into with the PS-DBM and third parties, such transactions to include, among others, the submission of eligibility documents, bids, registration documents obtaining bonds, performing the principal contract in the event that the contract is awarded in favor of the Joint Venture, receipt of payment for goods delivered, and similar and related activities.
!	SECTION 6. The period of the Joint Venture shall begin upon execution of this Agreement and shall continue until the complete performance of its contractual obligations to PS-DBM, as described in Article II hereof, or upon its termination for material breach of any term or condition of this Agreement, by service of a written statement in English on the other Party, not less than 90 days prior to the intended date termination
	ARTICLE II PURPOSE
	SECTION 1. The primary purpose of the Joint Venture is to participate in the public bidding to be conducted by the DBM-PS Bids and Awards Committee for the supply and delivery of for the

SECTION 2. If the above-described contract/s is/are awarded to the Joint Venture, the Joint Venture shall undertake the performance thereof to PS-DBM, and such other incidental activities necessary for the completion of its contractual obligations.

#### ARTICLE III SOLIDARY LIABILITY OF THE PARTIES

SECTION 1. In the performance of the contract/s that may be awarded to the Joint Venture by the PS-DBM, and all other related activities/obligations, as described in Article II hereof, the Parties bind themselves jointly and solidarily, in the concept of solidarily debtors, subject to the right of reimbursement, as provided in the relevant provisions of the Civil Code of the Philippines.

## ARTICLE IV CONTRIBUTION AND OTHER ARRANGEMENTS

SECTION 1. Contribution – The Parties shall contribute the amount of \_\_\_\_\_ (Php \_\_\_\_ ) to support the financial requirements of the Joint Venture, in the following proportion:

A. - P .00 B. - <u>P</u> .00 TOTAL P .00

Additional contributions to the Joint Venture shall be made as may be required for contract implementation. In addition, \_\_\_\_ shall contribute any labor and contract management requirements.

SECTION 2. Profit Sharing – The share of the Parties to the JV from any profit derived or obtained from the implementation and execution of the Project shall be distributed pro rata to each, in accordance with the contribution and resources each has provided to the JV;

SECTION 3. Liquidation and Distributions – Any sum remaining after deducting from the total of all moneys or benefits received for the performance of the contract, all costs incurred by the JV after award of the contract for the Project pursuant to the accounting practices established for the JV, shall be distributed in accordance with the relative balances in the accounts of each Party pursuant to Sec.1 of this Article upon completion, final accounting, termination and liquidation of the JV. In the event of liquidation and termination of JV, and after taking into account the shares of the Parties in all income, gain, deductions, expenses, and losses, should the account of a Party contain a negative balance, such Party shall contribute cash to the JV sufficient to restore the said balance to zero;

SECTION 4. Sharing of Burden of a Net Loss – In case a net loss is incurred, additional contributions shall be made by the Parties in accordance with their respective shares.

#### **ARTICLE V MISCELLANEOUS PROVISIONS**

SECTION 1. The provisions of the Instructions to Bidders, Supplemental Bid Bulletin, and other bidding documents issued by the PS-DBM in relation to the contract described in Article II hereof, shall be deemed incorporated in this Agreement and made an integral part thereof.

SECTION 2. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

SECTION 3. The Parties herein are duly represented by their authorized officers.

according to the laws of the	w - This Agreement shall be governed by and construed Republic of the Philippines. Venue of any court action shall be exclusively laid before the proper court of the
IN WITNESS WHEREOF, the date and place first above-	e parties have set their hands and affixed their signatures on stated.
	Signed in the Presence of:

#### ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES ) CITY/MUNICIPALITY OF PROVINCE OF (in the case of Municipal	) S.S.	
BEFORE ME, a Notary Public for a the case of Municipality, this following:		
Name	ID Name, Number and Valid	lity Date
Known to me and to me known to be the acknowledge to me that the same is their they represent.		
This instrument refers to a Joint page on which this Acknowledgement witnesses.		
WITNESS MY HAND AND NO	TARIAL SEAL on the place and	on the date first above written.
	Notary Public fo Roll of Attorneys PTR No, <i>[da</i>	mmission r until
Doc. No Page No Book No Series of		
Note: The identification card shall be at least one of of the 2004 Rules on Notarial Practice.	of those acceptable proofs of identity	as identified under the provisions
"Sec. 12. Competent Evidence of Identity identification of an individual based on:	- The phrase "competent ev	idence of identity" refers to the
At least one current identification document the individual, such as but not limited to, pas National Bureau of Investigation clearance Government Service and Insurance Syste senior citizen card, Overseas Workers Wet certificate of registration/immigrant certificat Council for the Welfare of Disabled Persons	ssport, driver's license, Profession e, police clearance, postal ID, volume em (GSIS) e-card, Social Security Sy lfare Administration (OWWA) ID, te of registration, government office I	onal Regulations Commission ID, ter's ID, Barangay certification, tstem (SSS) card, Philhealth card, OFW ID, seaman's book, alien ID, certification from the National

certification

## SUPPLIER'S LETTERHEAD

Date
Chairperson PS-DBM Bids and Awards Committee X Paco, Manila
Dear Sir:
This has reference to Public Bidding No. 21-030-10 for (Name of Project)  (Name of Company) respectfully requests for the following:  () Withdraw of Bid Submissions () Refund of Bid Security (Attached is a photocopy of the Procurement Service Official Receipt) () Cancellation of Credit Line Certificate
It is understood thatwaives its right to file any motion for reconsideration and/pr protest in connection with the above-cited Public Bidding Project.
Thank you.
Very truly yours,
Authorized Signatory for the Company

## Form of Performance Security (Bank Guarantee)

To : Procurement Service PS Complex, Cristobal St., Paco, Manila	
Supplier") has undertaken, in pursuance of	dress of Supplier) (hereinafter called "the of Notice of Award No dated at and Brief Description) (hereinafter called "the
-	ted by you in the said Contract that the Supplier recognized bank for the sum specified therein as accordance with the Contract;
AND WHEREAS, we have agreed to g	ive the Supplier such a Bank Guarantee;
on behalf of the Supplier, up to a total of <u>[Aa]</u> which the Contract Price is payable, and we demand and without cavil or argument, any	that we are the Guarantor and responsible to you, mount of Guarantee] proportions of currencies in e undertake to pay you, upon your first written sum or sums within the limits of [Amount of g to prove or to show grounds or reasons for your
We hereby waive the necessity of your presenting us with the demand.	demanding the said debt from the Supplier before
to be performed thereunder or of any of the G	or other modification of the terms of the Contract Contract documents which may be made between us from any liability under this guarantee, and we on or modification.
This guarantee shall be valid until the &Certification of Acceptance Report(I.C.A.R)	date of issue of the Final Acceptance [Inspection, ].
SIGNATURE AND SEAL OF THE GUARANTOR NAME OF BANK ADDRESS	
DATE	

## **BID SECURING DECLARATION FORM**

REPUBLIC OF THE PHILIPPINES) CITY OF
xx
BID SECURING DECLARATION Invitation to Bid: Public Bidding No. 21-030-10
To: Procurement Service PS Complex, RR Road Cristobal St., Paco, Manila
I/We <sup>1</sup> , the undersigned, declare that:
I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.
IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this day of [month] [year] at [place of execution].

1.

2.

3.

(a)

(b)

(c)

<sup>&</sup>lt;sup>1</sup> Select one and delete the other. Adopt the same instruction for similar terms throughout the document.

## [Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE] [Insert Signatory's Legal Capacity]

Affiant

SUBSCRIBED AND SWORN to before me execution], Philippines. Affiant/s known to me, and k	
type of government identification card used*], with h	is/her photograph and signature appearing thereon,
with no issued on	at
Witness my hand and seal this day of [month	n] [year].
	NAME OF NOTARY PUBLIC
	Serial No. of Commission
	Notary Public for unitil
	Roll of Attorney's No
	PTR No [date issued], [place
	issued]
	IBP No [date issued], [place issued]
Doc. No	[], []
Page No	
Book No	
Series of	

\*The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.

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At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification

#### **Performance Securing Declaration (Revised)**

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

_	
REPUBLIC OF THE PHILIPPINE	(C)
REPUBLIC OF THE FILLIFFINE	
CITY OF	\ C C
CITY OF	) 5.5.
	<del>-</del> /

#### PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
- 2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
- 3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
  - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
    - i. Procuring Entity has no claims filed against the contract awardee;
    - ii. It has no claims for labor and materials filed against the contractor; and
    - iii. Other terms of the contract; or
  - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this \_\_\_\_ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE] [Insert Signatory's Legal Capacity] Affiant

execution], Philippines. Affiant/s known to	o me, and known to be the same person/s in the exhibited [insert
••	d*], with his/her photograph and signature appearing thereon,
with noissued on _	at
Witness my hand and seal this day	of [month] [year].
	NAME OF NOTARY PUBLIC
	Serial No. of Commission
	Notary Public for unitil
	Roll of Attorney's No
	PTR No [date issued], [place
	issued]
	IBP No [date issued], [place issued]
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#### **Contract Agreement Form for the Procurement of Goods (Revised)**

[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

\_\_\_\_\_

#### **CONTRACT AGREEMENT**

THIS AGREEMENT made the \_\_\_\_ day of \_\_\_\_ 20\_\_ between [name of PROCURING ENTITY] of the Philippines (hereinafter called "the Entity") of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called "the Supplier") of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures in specified currency]* (hereinafter called "the Contract Price").

#### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
- i. Philippine Bidding Documents (PBDs);
- i. Schedule of Requirements;
- ii. Technical Specifications;
- iii. General and Special Conditions of Contract; and
- iv. Supplemental or Bid Bulletins, if any
- ii. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted:

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- iii. Performance Security;
- iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
- v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

- 3. In consideration for the sum of [totalcontract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
- 4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

[Insert Name and Signature]	[Insert Name and Signature]	
[Insert Signatory's Legal Capacity]	[Insert Signatory's Legal Capacity]	
for:	for:	
[Insert Procuring Entity]	[Insert Name of Supplier]	

#### **ACKNOWLEDGMENT**

REPUBLIC OF THE PHILIP CITY/MUNICIPALITY OF _ PROVINCE OF <u>(in the case o</u>	) S.S.	
	Public for and in the City/Municipality of _ this day of <u>(month &amp; year)</u>	
Name	ID Name, Number and Valid	dity Date
	wn to be the same persons who executed the same is their free and voluntary act and deed	
	s to a Joint Venture Agreement consisting of vledgement is written, and signed by the	1 0

150

WITNESS MY HAND AND NOTARIAL SEAL on the place and on the date first above written.

	NAME OF NOTARY PUBLIC  Serial No. of Commission  Notary Public for until  Roll of Attorneys No  PTR No, [date issued], [place issued]	
Doc. No Page No Book No Series of	IBP No, [date issued], [place issued]	

Note:

The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.

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