

BIDDING DOCUMENTS

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

PUBLIC BIDDING NO: 20-058-10

**Sixth Edition
July 2020**

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	4
Section I. Invitation to Bid	7
Section II. Instructions to Bidders	10
1. Scope of Bid	11
2. Funding Information	11
3. Bidding Requirements	11
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	11
5. Eligible Bidders	11
6. Origin of Goods	12
7. Subcontracts	12
8. Pre-Bid Conference	13
9. Clarification and Amendment of Bidding Documents	13
10. Documents comprising the Bid: Eligibility and Technical Components	13
11. Documents comprising the Bid: Financial Component	13
12. Bid Prices	13
13. Bid and Payment Currencies	14
14. Bid Security	14
15. Sealing and Marking of Bids	15
16. Deadline for Submission of Bids	15
17. Opening and Preliminary Examination of Bids	15
18. Domestic Preference	15
19. Detailed Evaluation and Comparison of Bids	15
20. Post-Qualification	16
21. Signing of the Contract	16
Section III. Bid Data Sheet	17
Section IV. General Conditions of Contract	21
1. Scope of Contract	22
2. Advance Payment and Terms of Payment	22
3. Performance Security	22
4. Inspection and Tests	22
5. Warranty	23
6. Liability of the Supplier	23
Section V. Special Conditions of Contract	24
Section VI. Schedule of Requirements	29
Section VII. Technical Specifications	30

Section VIII. Checklist of Technical and Financial Documents	36
Bid Form	63
Statement of Single Large Completed Contract to be Bid	70
Statement of: (i) Ongoing Contracts and; (ii) awarded but not yet Started Contracts	71
Joint Venture Agreement	72
Miscellaneous Provisions	75

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. 20-058-10

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	December 14, 2020
Issuance and Availability of Bid Documents	December 14, 2020
Pre-Bid Conference	December 21, 2020; 01:30 PM
Last day of Submission of Written Clarification	December 24, 2020
Last day of Issuance of Bid Bulletin	December 28, 2020
Deadline for Submission	January 4 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 **21 December 2020; 01:30 PM.** 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: <https://meet.google.com/bor-fmno-mwe> 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 14.

Bid opening shall be conducted on **04 January 2021; 10:00 A.M.** at the Bidding Room, Conference Room, Procurement Service, Cristobal St., Paco, Manila. 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: <https://meet.google.com/dyu-bvxp-eai> 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 2nd 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 Commissioning of Digital Radio System for the Philippine National Police*** under a RA 9184, with Public Bidding No. **20-058-10**.

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. <u>Contracts similar to those classified as Radio Communication Equipment.</u> b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.				
7.1	Subcontracting is not allowed.				
12	The price of the Goods shall be quoted LSS Warehouse Bicutan Taguig Metro manila or the applicable International Commercial Terms (INCOTERMS) for this Project.				
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:				
	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	₱8,792,843.72	₱21,982,109.3	Please see Section VIII attached as Annex "H"
19.3	The lots and 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	<p>Documents, licenses and permits required.</p> <p>For purposes of Post-qualification the following document(s) shall be required:</p> <ol style="list-style-type: none"> 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 June to November 2020. <p><i>The income tax and business tax returns stated above should have been filed through the Electronic Filing and Payment System (EFPS).</i></p> <ol style="list-style-type: none"> 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. <p><i>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.</i></p> <ol style="list-style-type: none"> 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. <p><i>The Following requirement in the Terms of Reference should be submitted together with the above items:</i></p> <ol style="list-style-type: none"> 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, Visayas and
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	<p>Mindanao duly certified by the manufacturer;</p> <ol style="list-style-type: none"> 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; <p><i>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.</i></p>
21.1	<ol style="list-style-type: none"> 1. Twenty (20) sets of service manuals for the procured DTRS consisting <ol style="list-style-type: none"> 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 Conditions of Contract

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

Special Conditions of Contract

GCC Clause	
1	<p>The Project Sites are:</p> <p><i>LSS Warehouse Bicutan Taguig Metro manila</i></p> <p>Delivery and Documents –</p> <p>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:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered <i>[indicate place of destination]</i>. In accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered <i>[indicate place of destination]</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is <i>PMAJ. Rizalou Perlas or PMAJ. Delmar Balinang</i></p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> 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;

	<ul style="list-style-type: none"> 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.
	<p>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.</p> <p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <p>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.</p> <p>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.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within three (3) months of placing the order.</p>

	<p>Packaging –</p> <p>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.</p> <p>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.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions</p>
	<p>Any special handling instructions Any relevant HAZCHEM classifications</p>
	<p>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.</p> <p>Transportation –</p> <p>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.</p> <p>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.</p>

	<p>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.</p> <p>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.</p> <p>Intellectual Property Rights –</p> <p>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.</p>
2.2	Payment will be made upon complete acceptance of the project.
4	<i>Not Applicable</i>

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 and deliver all the above requirements in accordance with the above stated schedule.

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	:	₱ 439,642,186.00

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

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
Name of Authorized
Representative

Date

Annex A

Republic of the Philippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
DILG-NAPOLCOM Center
NAPOLCOM Building, EDSA cor. Quezon Ave.
West 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 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. 2016-110, dated October 18, 2016, had favorably submitted and indorsed 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-UESB Resolution No. 2016-110, dated October 18, 2016, amending NAPOLCOM Res. No. 2015-424 on the standard specifications for Digital Handheld Radio Transceiver, to read as follows:

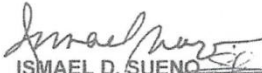
III. RECEIVER:

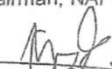
D. Sensitivity : 0.30 microvolt, max

2.

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

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


ISMAEL D. SUENO
Chairman, NAPOLCOM


ATTY. ROGELIO T. CASURAO
Commissioner
Vice-Chairman and Executive Officer


ZENONIDA F. BROSAS
Commissioner


JOB M. MANGENTE
Commissioner


FELIZARDO M. SERAPIO, JR.
Commissioner


RONALD M. DELA ROSA
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

8.

Republic of the Philippines
Department of the Interior and Local Government
NATIONAL POLICE COMMISSION
Quezon 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. 2014-072, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Handheld Radio Transceiver;

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;

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 Kbps, min. |

II. TRANSMITTER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 806-824 MHz |
| B. RF Output Power | 1 watt, min. |
| C. Channel Spacing | Narrowband Compliant |
| D. Frequency Stability | $\pm 0.0002\%$, max. |

III. RECEIVER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 851-870 MHz |
| B. Channel Spacing | Narrowband Compliant |
| C. Frequency Stability | $\pm 0.0002\%$, max. |
| D. Sensitivity | 0.25 microvolt, 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

Adelmalyn A. Munieza
ADELMALYN A. MUNIEZA
Chief, Secretariat

Annex B

Republic of the Philippines
Department of the Interior and 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 prevention, 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 honor;

WHEREAS, pursuant to the aforecited 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 accessories 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

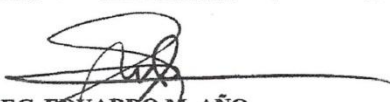
standard specifications for Digital Base Transceiver Radio's accessories and the length of antenna mast, to read as follows:

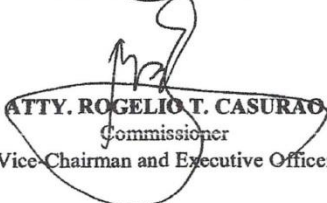
V. ACCESSORIES

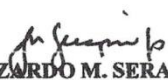
C. Antenna Mast

- 1) Material: G.I. Pipe Schedule 40 with 10mm deformed bar step
- 2) Diameter: 2 ½ 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 2018 in Quezon City, Metro Manila, Philippines.


USEC. EDUARDO M. AÑO
Chairman, NAPOLCOM


ATTY. ROGELIO T. CASURAO
Commissioner
Vice-Chairman and Executive Officer


FELIZARDO M. SERAPIO, JR.
Commissioner


JOB M. MANGENTE
Commissioner


ZENONIDA F. BROSAS
Commissioner


OSCAR D. ALBAYALDE
Ex-Officio Commissioner

Attested by:


ELVIRA M. BAUTISTA
Acting Chief, Secretariat

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

RESOLUTION NO. 2016-813

**APPROVING THE PNP-UESB RESOLUTION NO. 2016-111 AMENDING NAPOLCOM
RESOLUTION NO. 2015-425 ON THE STANDARD SPECIFICATIONS FOR DIGITAL
BASE 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. 2016-111, dated October 18, 2016, had favorably submitted and indorsed the proposed amendment to the standard specifications for Digital Base Radio Transceiver under NAPOLCOM Resolution No. 2015-425, 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 Base 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 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, 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-UESB Resolution No. 2016-111, dated October 18, 2016, amending NAPOLCOM Res. No. 2015-425 on the standards specifications for Digital Base Radio Transceiver, to read as follows:

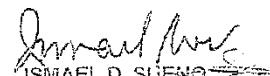
III. RECEIVER:

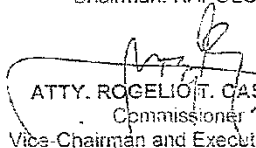
D. Sensitivity : 0.30 microvolt, max




APPROVED THE PDAVSS RESOLUTION NO. 2016-111
AMENDING NAPOLCOM RESOLUTION NO. 2015-325 ON THE
STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO
TRANSMITTER PARTICULARLY ON SENSITIVITY

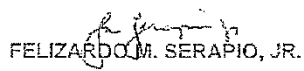
APPROVED this 26th day of DECEMBER 2016 in Quezon City, Metro
Manila, Philippines.


ISMAEL D. SUENO
Chairman, NAPOLCOM


ATTY. ROGELIO T. CASURA
Commissioner
Vice-Chairman and Executive Officer


ZENONIDA F. BROSAS
Commissioner


JOB M. MANGENTE
Commissioner


FELIZARDO M. SERAPIO, JR.
Commissioner


RONALD M. DELA ROSA
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

8.

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

RESOLUTION No. 2015-425

**PRESCRIBING THE STANDARD SPECIFICATIONS FOR
DIGITAL BASE 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. 2014-078, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Base Radio Transceiver;

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;

J 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 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 Standard Specifications for Digital Base 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;

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 Minimum Specifications for Digital Base 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 Kbps, min. |

II. TRANSMITTER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 806-824 MHz |
| B. RF Output Power | 10 watts, min. |
| C. Channel Spacing | Narrowband Compliant |
| D. Frequency Stability | $\pm 0.0002\%$, max. |
| E. Output Impedance | 50 ohms |

III. RECEIVER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 851-870 MHz |
| B. Channel Spacing | Narrowband Compliant |
| C. Frequency Stability | $\pm 0.0002\%$, max. |
| D. Sensitivity | 0.25microvolt, max. |
| E. Input Impedance | 50 ohms |

IV. FEATURES

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

- K. Military Standard 810C, D, E, F and IP 54 or 55 or latest compliant
- L. Encryption (Built-in, can be enabled and disabled)
- M. Background Noise Cancellation (latest Version)
- N. Telephone Interconnect Capability
- O. LCD Display (2 lines or more)
- P. Global Positioning Capable
- Q. Data Inquiry System Capable
- R. Automatic Vehicular Locator System Capable
- S. Supports Direct Data Connection

V. ACCESSORIES

A. Regulated Power Supply with Battery Charger

- 1) 30 Amperes or higher
- 2) 220 VAC input
- 3) 13.8 VDC output

B. Antenna

- 1) Fiber glass
- 2) 3dB gain or higher
- 3) Omni Directional
- 4) 800 MHz Band

C. Antenna Mast

- 1) Material: G.I. Pipe Schedule 40 with 10mm deformed bar step
- 2) Length: Eighty (80) feet
- 3) Diameter: 2 1/2 inches
- 4) For Guy Wire: G.I. Wire #10
- 5) Turn Buckle 3/8"
- 6) Base Plate Iron Sheet (12"x12"x1/4")

D. Transmission Line Cable

- 1) Material: Foam dielectric transmission
- 2) Diameter: 1/2 inch or thicker
- 3) Impedance 50 ohms
- 4) Length: 40 meters, min.

E. Back-Up Battery

- 1) 12 VDC
- 2) Deep Cycle
- 3) Rechargeable
- 4) 100 AH

F. Lightning Protection—Industry Standard

G. Complete Hardware Mounting

VI. MUST PASS THE PNP TEST AND EVALUATIONS

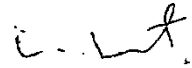
176

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

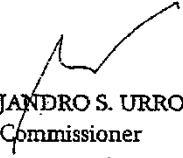

MAR ROXAS
Chairman, NAPOLCOM




DILG-OSEC OUTGOING 15-03144


EDUARDO U. ESCUETA
Commissioner-
Vice Chairman and Executive Officer

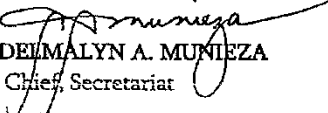

LUISITO T. PALMERA, DPA, CSEE
Commissioner


ALEJANDRO S. URRO
Commissioner


CONSTANCIA P. DE GUZMAN, Ph.D.
Commissioner


RICARDO C. MARQUEZ
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

Annex C

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

RESOLUTION NO. 2016-814

**APPROVING THE PNP-UESB RESOLUTION NO. 2016-112 AMENDING NAPOLCOM
RESOLUTION NO. 2015-426 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

APPROVING THE PNP-UESB RESOLUTION NO. 2016-112
AMENDING NAPOLCOM RESOLUTION NO. 2015-426 ON THE
STANDARD SPECIFICATIONS FOR DIGITAL MOBILE RADIO
TRANSMITTER PARTICULARLY ON SENSITIVITY

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


ISMAEL D. SUENO
Chairman, NAPOLCOM


ATTY. ROGELIO T. CASURAO
Commissioner
Vice-Chairman and Executive Officer




ZENONIDA F. BROSAS
Commissioner


JOR M. MANGENTE
Commissioner


FELIZARDO M. SERAPIO, JR.
Commissioner


RONALD M. DELA ROSA
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

8.

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 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. 2014-079, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Mobile Radio Transceiver;

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 Mobile 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 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 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, AS IT HEREBY RESOLVES, to adopt and prescribe the Minimum Specifications for Digital Mobile 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 Kbps, min. |

II. TRANSMITTER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 806-824 MHz |
| B. RF Output Power | 10 watts, min. |
| C. Channel Spacing | Narrowband Compliant |
| D. Frequency Stability | $\pm 0.0002\%$, max. |
| E. Output Impedance | 50 ohms |

III. RECEIVER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 851-870 MHz |
| B. Channel Spacing | Narrowband Compliant |
| C. Frequency Stability | $\pm 0.0002\%$, max. |
| D. Sensitivity | 0.25 microvolt, max. |
| E. Input Impedance | 50 ohms |

IV. FEATURES


- A. Multi-Site Capable
- B. Compact Microphone
- C. PC Programmable
- D. Call ID Display
- E. Page/Call Alert
- F. Private/Individual Call
- G. Multigroup/Conference/Group Call
- H. Out-of-Range Indicator
- I. Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- J. Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)
- K. Military Standard 810C, D, E, F and IP 54 or 55 or latest compliant
- L. Encryption (Built-in, can be enabled and disabled)
- M. Background Noise Cancellation (latest Version)
- N. Telephone Interconnect Capability
- O. LCD Display (2 lines or more)
- P. Global Positioning Capable
- Q. Data Inquiry System Capable
- R. Automatic Vehicular Locator System Capable
- S. Supports Direct Data Connection
- T. Vehicular Adapter Operation Capable

V. ACCESSORIES

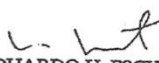
- A. Antenna
 - 1) 800 MHz Band
 - 2) Car/Mobile Mount
- B. Appropriate ports for external accessories
- C. Complete Hardware Mounting
- D. Power Supply Plug/Connector

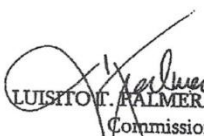
VI. MUST PASS THE PNP TEST AND EVALUATIONS


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


MAR ROXAS
Chairman, NAPOLCOM




EDUARDO U. ESCUETA
Commissioner-
Vice Chairman and Executive Officer


LUISITO T. PALMERA, DPA, CSEE
Commissioner


CONSTANCIA P. DE GUZMAN, Ph.D.
Commissioner


ALEJANDRO S. URRO
Commissioner


RICARDO C. MARQUEZ
Commissioner

Attested by:


ADEL MALYN A. MUNIEZA
Chief, Secretariat

Annex D

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 (DMR) 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 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 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;

2.

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

I. GENERAL

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

II. TRANSMITTER

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

III. RECEIVER

- A. Channel Spacing : Narrowband compliant
- B. Maximum Receiver Sensitivity : $0.3\mu V$ @ 5%BER
- C. Output Impedance : 50 ohms

IV. FEATURES

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

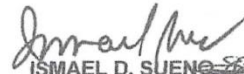
V. ACCESSORIES

- A. Regulated Power Supply with battery charger
 - 1. 110-220 VAC input
 - 2. 13.8 VDC output
 - 3. Polarity reverse and over discharge protection
- B. Antenna
 - 1. 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: $\frac{1}{4}$ inch or thicker
 - 3. Impedance: 50 ohms
 - 4. With connectors and installation kits
- D. Back-Up Battery
 - 1. 12 VDC
 - 2. Deep Cycle
 - 3. Rechargeable
 - 4. 100 AH
- E. Complete Hardware Mounting

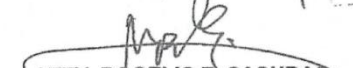
VI. Must Pass the PNP Test and Evaluation

B.

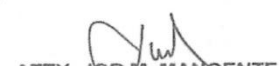
APPROVED this 19th day of DECEMBER 2016, in Quezon City, Metro
Manila, Philippines.

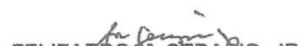

ISMAEL D. SUENO
Chairman, NAPOLCOM




ATTY. ROGELIO T. CASURAO
Commissioner
Vice Chairman and Executive Officer

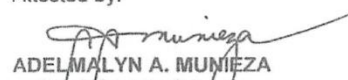

ZENONIDA F. BROSAS
Commissioner


ATTY. JOB M. MANGENTE
Commissioner


FELIZARDO M. SERAPIO, JR.
Commissioner


RONALD M. DELA ROSA
Commissioner

Attested by:


ADELMALYN A. MUNEZA
Chief, Secretariat

2.

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

RESOLUTION No. 2015-425

**PRESCRIBING THE STANDARD SPECIFICATIONS FOR
DIGITAL BASE 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. 2014-078, has recommended to the Commission for approval the Proposed Minimum Specifications for Digital Base Radio Transceiver;

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;

J 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 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 Standard Specifications for Digital Base 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;

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 Minimum Specifications for Digital Base 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 Kbps, min. |

II. TRANSMITTER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 806-824 MHz |
| B. RF Output Power | 10 watts, min. |
| C. Channel Spacing | Narrowband Compliant |
| D. Frequency Stability | $\pm 0.0002\%$, max. |
| E. Output Impedance | 50 ohms |

III. RECEIVER

- | | |
|------------------------|-----------------------|
| A. Frequency Range | 851-870 MHz |
| B. Channel Spacing | Narrowband Compliant |
| C. Frequency Stability | $\pm 0.0002\%$, max. |
| D. Sensitivity | 0.25microvolt, max. |
| E. Input Impedance | 50 ohms |

IV. FEATURES

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

- K. Military Standard 810C, D, E, F and IP 54 or 55 or latest compliant
- L. Encryption (Built-in, can be enabled and disabled)
- M. Background Noise Cancellation (latest Version)
- N. Telephone Interconnect Capability
- O. LCD Display (2 lines or more)
- P. Global Positioning Capable
- Q. Data Inquiry System Capable
- R. Automatic Vehicular Locator System Capable
- S. Supports Direct Data Connection

V. ACCESSORIES

A. Regulated Power Supply with Battery Charger

- 1) 30 Amperes or higher
- 2) 220 VAC input
- 3) 13.8 VDC output

B. Antenna

- 1) Fiber glass
- 2) 3dB gain or higher
- 3) Omni Directional
- 4) 800 MHz Band

C. Antenna Mast

- 1) Material: G.I. Pipe Schedule 40 with 10mm deformed bar step
- 2) Length: Eighty (80) feet
- 3) Diameter: 2 1/2 inches
- 4) For Guy Wire: G.I. Wire #10
- 5) Turn Buckle 3/8"
- 6) Base Plate Iron Sheet (12"x12"x1/4")

D. Transmission Line Cable

- 1) Material: Foam dielectric transmission
- 2) Diameter: 1/2 inch or thicker
- 3) Impedance 50 ohms
- 4) Length: 40 meters, min.

E. Back-Up Battery

- 1) 12 VDC
- 2) Deep Cycle
- 3) Rechargeable
- 4) 100 AH

F. Lightning Protection—Industry Standard

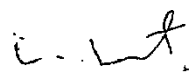
G. Complete Hardware Mounting

VI. MUST PASS THE PNP TEST AND EVALUATIONS

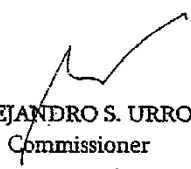
176

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


MAR ROXAS
Chairman, NAPOLCOM   DILG-OSEC OUTGOING 15-03144


EDUARDO U. ESCUETA
Commissioner-
Vice Chairman and Executive Officer

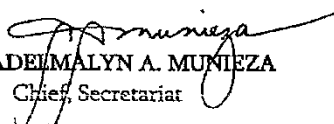

LUISITO T. PALMERA, DPA, CSEE
Commissioner


ALEJANDRO S. URRO
Commissioner


CONSTANCIA P. DE GUZMAN, Ph.D.
Commissioner


RICARDO C. MARQUEZ
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

Annex E

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 path from analog 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. 8551 and its Implementing Rules and Regulations (IRR), all existing policies and issuances of the Commission and meet the requirements of the PNP;

CERTIFIED TRUE COPY

P.

Rosalin C. Daza-Mangui
ROSALIN C. DAZA-MANGUI
Acting Chief, GSD-PAS

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 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)
- C. Multi-site Base Station Connectivity : IP based (Microwave- Ethernet or through ISP)
- D. Operating Voltage Range : 220 VAC ($\pm 5\%$), 60 Hz
- E. MSO Load Capacity
 - 1) No. of System Radio IDs : 100,000 IDs
 - 2) No. of Talkgroups : 1600 Talkgroups
 - 3) No. of Repeater/ Base Stations : 100 Sites per MSO
 - 4) No. of Logical Channels per Site : 15 Physical Channel
30 Logical Channels) per site
 - 5) No. of Dispatch Consoles : 2 Dispatch 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
 - 8) Emergency Alarm/Call
 - 9) Dedicated Control Channel
 - 10) Roaming
 - 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
- B. Input Voltage : 220 ($\pm 5\%$) VAC, 60 Hz
- C. Temperature Range : -30°C to 60°C
- D. RF Carrier Bandwidth : 12.5 KHz
- E. Channel Access : TDMA
- F. Output Impedance : 50 ohms

CERTIFIED TRUE COPY


ROSALYN C. R. DAZA-MANGUI
Acting Chief, GSD-RAS

7/12/16

- G. Maximum Receiver Sensitivity : 0.3 μ V @ 5% Bit Error Rate
H. Feature : Battery Charger with Auto Revert
I. Accessories : Other necessary accessories

III. ANTENNA SYSTEM

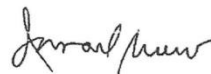
- A. Antenna : 8dB
B. Transmission Line : Type – Low Density Foam (LDF) type
Diameter – 7/8 inch thick with compatible connectors, jumper cable and fixing kits

IV. DISPATCH CONSOLE SYSTEM

- A. Console Display : Can be customized by the end-user according to requirements or need

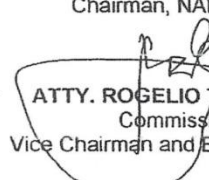
V. MUST PASS THE PNP TEST AND EVALUATIONS

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

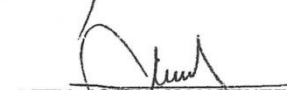


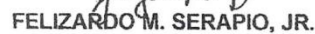
ISMAEL D. SUENO
Chairman, NAPOLCOM




ATTY. ROGELIO T. CASURA
Commissioner
Vice Chairman and Executive Officer

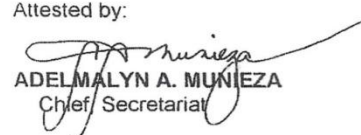

ZENONIDA F. BROSAS
Commissioner


ATTY. JOB M. MANGENTE
Commissioner


FELIZARDO M. SERAPIO, JR.
Commissioner

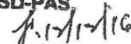

RONALDO M. DELA ROSA
Commissioner

Attested by:


ADELMALYN A. MUNIEZA
Chief, Secretariat

CERTIFIED TRUE COPY

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 BGen 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)

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:



AVLS	- 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

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.
MSO	- Mobile Switching Office is responsible for intercommunication among the network elements in the system and providing services such as mobility management, authentication, dispatch, network management and intercommunication.
OTAP	- Over the Air Programming
OTAR	- Over the Air Rekeying
PPO	- Provincial Police Office
PRO	- Police Regional Office
Telemetry	- Is an automated communications process by which data are collected at remote or inaccessible points and transmitted to receiving equipment for monitoring
TIER II	- DMR standard for Conventional System
TIER III	- DMR standard for Trunking System
Trunking	- Radio system that uses a control channel to automatically direct radio traffic to available physical channel.
TSP	- Telecommunications Service Provider
IOP	- The DMR Interoperability Process
NMS	- Network Management System

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:

- a) PROs NCR, 5, 6, 9, 10, 11 and 12 – each site equipped with 4-carrier 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 transceivers, 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 terminals, and with the PNP LOGO to appear on the screen of all radios during power ON.
 - 8. 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 terminals by using the existing IP based inter-system gateway. This means that a police officer from a PRO can bring a DMR



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 calls, 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 system 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
	DIGITAL TRUNKED RADIO SYSTEM
2016-803	"PREScribing THE SPECIFICATIONS FOR THE DIGITAL TRUNKED RADIO SYSTEM (DTRS) FOR DMR 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 TRANSCEIVER'S ACCESSORIES ON ANTENNA MAST"
2016-813	"APPROVING THE PNP-UESB RESOLUTION NO. 2016-111 AMENDING NAPOLCOM RESOLUTION NO. 2015-425 ON THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCEIVER PARTICULARLY ON SENSITIVITY"
2015-425	"PREScribing THE STANDARD SPECIFICATIONS FOR DIGITAL BASE RADIO TRANSCEIVER"
	DIGITAL MOBILE RADIO TRANSCEIVER
2016-814	"APPROVING THE PNP-UESB RESOLUTION NO. 2016-112 AMENDING NAPOLCOM 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 NAPOLCOM 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"

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

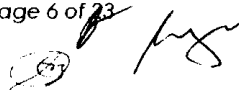
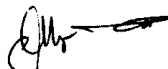
The DMR project shall have basic components and features based on the approved NAPOLCOM technical specifications through Resolution Numbers 2016-803, 2016-806, 2018-588, 2016-813, 2015-425, 2016-814, 2015-426, 2016-815, and 2015-424. The terminologies may vary from each brand, however, said basic components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

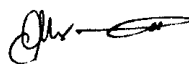
1. DMR System Components

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;



- 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 Sytem 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
 - a.15.3.4) Geofencing.



b) Engineering Requirement for Trunking sites

- b.1) Tower mast with proper cable clip and harness; (Pls see Annex "2")
- b.2) Outdoor Cabinet with appropriate cooling system or Radio Room Shelter with 2 units 1.0HP Aircon, Inverter Type; (Pls see Annex "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-carrier to 8-carrier 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 (Pls 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.



C2.2) Voice Features

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.

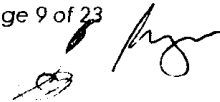
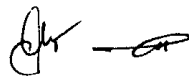
d) Conventional Repeater (41 sets)

d.1) Compliant to **NAPOLCOM Resolution No. 2016-806**;

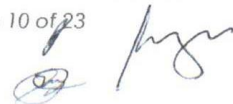
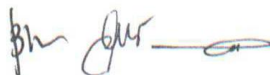
d.1.1) The repeater shall be upgradable to DMR Tier III trunking transceiver thru software upgrade;

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 accesory to be able to establish calls to programmed talk-groups selected by menu keys;



- 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 System 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;



d.6.4) Dispatch Call Features:

- d.6.4.1) 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) All Call;
- 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; (Pls see Annex "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.6.14.4) Grounding system as specified in the latest Philippine Electrical Code Edition; and

d.6.14.5) Lightning protection system.



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 equipped 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

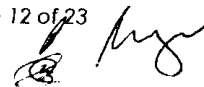
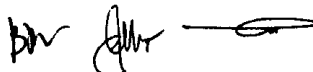
e.1.12.4) 20 units (1x6) portable battery charger;

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;



- 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;**

- 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 810G;
- 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 "5")

3. Proposed DMR Network Diagram (Annex "6")

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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2. Site Survey for Trunking Base Station sites, Conventional Repeater sites and Base Radio sites shall be conducted upon after the receipt of Notice To Proceed (NTP);
3. Design and Construction/Improvement of Digital Radio System Equipment Room or Outdoor Cabinet for Trunking Base Station sites with cooling system, electrical system, beacon light, lightning protection, grounding and bonding system for telecommunications (ANSI/TIA 607-B), busbar, and LED light; (Pls see Annex "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; (Pls see Annex "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 busbar;
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, MOA, structure design, wind loading, government law (such space clearance nearby Airport area), reuse of existing tower based on structure analysis, and shall be compliant with ANSI/TIA 607-B;
7. Design and Construction/Improvement of Antenna Mast for Base Radio sites (Up to 60ft 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, government law (such space clearance nearby Airport area), reuse of existing tower based on structure analysis, and shall be compliant with ANSI/TIA 607-B;
8. System design, frequency planning, and IP planning;
9. 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:

1. 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 ;
10. 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;
12. Installation, configuration, programming and commissioning of base station sites and conventional repeater sites;
13. Installation and programming of base radios and mobile radios; programming of handheld radios;
14. Acceptance testing;

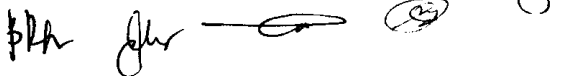


15. Operation, Maintenance, Programming and Troubleshooting Training of DMR Trunking and Conventional System for 200 (2/PPO, 2/RCEO, 6/NHQCES) PNP personnel for 5 working days in each venue. The venue of the training will be clustered in three sites (Metro Manila, Cebu, and Davao);
16. All training materials, 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, release, 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



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);

3. 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 bolts, nuts, screws, washers, main distribution frames, junction boxes etc;
5. 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 IP-connected multisite DMR network thru available IP connectivity or TSP;
6. 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;
8. 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;
10. 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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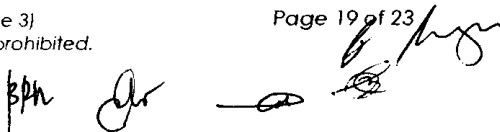
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11. The proposed handheld and mobile/base radios must have IOP certificate from DMR association to ensure compliance to DMR Tier III interoperability with other trunking system manufacturer;
12. The proposed conventional repeater must have IOP certificate from DMR association to ensure compliance to DMR Tier II interoperability with other terminal manufacturer;
13. 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
16. The supplier shall ensure 100% transfer of technology to the PNP within the warranty period.

H. REQUIREMENTS FOR BIDDERS

1. 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);
2. 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;
3. 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;
4. The bidder/supplier must submit a Radio Dealer's permit issued by the National Telecommunications Commission (NTC);

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5. 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;
6. The bidder/supplier must have at least an authorized service center in Luzon, Visayas and Mindanao duly certified by the manufacturer;
7. The foreign manufacturer must submit a proof of local representative office in the Philippines;
8. 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;
9. 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;
11. The bidder/supplier must submit a certification that the equipment being offered is NTC type approved;
12. The bidder/supplier must submit a certification that all equipment being offered are Brand New;
13. 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;
 - c) Commissioning Procedures;
 - d) Operation Procedure; and
 - e) Troubleshooting and Maintenance Procedures.
15. The supplier shall issue Certificate of Non-Disclosure for the implementation of the project.



I. GENERAL NOTES

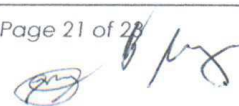
1. It shall be the responsibility of the bidder/supplier to incorporate any incidental expenses deemed necessary to satisfy the best engineering standard and practices as well as the expenses during the functional testing prior to final acceptance.
2. The supplier must have full knowledge of the project, 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

1. 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 para a) and b) above shall be based on its functionality.
2. 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.



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

1. 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.
3. 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:
 - a) 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.

(Annex 2)

Trunking Site Information Table

PRO	Proposed DMR Site A Name	Site Coordinates	Meters Above Sea level	Site A Type of Structure	Site A Antenna Tower/Mast	Site A Existing System	Site A Accessibility	Site A Means of Power	Site A Radio Room	Site A RF Cable Route (Meters)	Line of Sight to another Site B	IP Radio Remote Site B Name	Site Coordinates	Site B Type of Structure	Site B Antenna Tower/Mast	Photos	Certificate of site readiness
NCR	PAC Bignay Base, Disipina Village, Gulod Street, Valenzuela City (Option 2) TRS	14.747885, 120.997155	3.8m	Land Base	120ft (self support /single pole guyed wire tower)	NONE	Road Access.	Commercial Power	New Radio Room	55m	Yes	Atlanta Tower	14.604710, 121.053309	Roof deck	Existing 40ft	Attached	Attached
1 & COR	Mt Sto Thomas TRS	16.33493, 120.56102	2,230 m	Land Base	60-80ft (Self-Support 3-Leg Tower)	Motorola Analog	Limited Road Access by 4x4 vehicles, Hauling Distance is 50m	Commercial Power	Existing Radio Room	75m	Yes	Micro Relay Station	16.46305, 120.59571	Land Base	Needs new 40ft (3legged)	Attached	PNP Owned
5	Mt Quiñinan, Brgy Tinago, Camalig, Albay	13.15963, 123.6660404	8,000ft	Land Base	Existing 100ft (Self-Support Tower)	Motorola Analog	Limited Road Access, Hauling Distance is 500m.	Commercial Power (APEC)	Existing Radio Room	50m	Yes	RCE05 Bldg	13°08'42.67"N, 123°43'37.75"E	Land Base	Existing 100ft (Lattice Tower with Guying)	attached	Pending clearance from AFP
6	Guimaras PPO, Brgy. Aleguico, Jordan, Guimaras	10°36'37.21" N, 122°35'33.69"E	165.5m	Land Base	New 120 ft	DMR Conventional repeater	Road access	Commercial Power	Existing Radio Room	45m	Yes	PRO6-RTOC (Camp Delgado, Iloilo)	10°41'28.91"N, 122°34'50.42"E	Roof top of 2-Storey Bldg	Existing 70ft UHF Hylera tower	attached	Existing DMR Conventional
9	Mt Dulian, Brgy Upper Pasonanca, ZC	06.980741N, 122.050306 E	520.3m	Land Base	120ft (Self-Support 3-Leg Tower)	Motorola Analog	Limited Road Access, Hauling Distance is 50m.	Commercial Power	New Radio Room 3x5	55m	Yes	Police Regional Office 9	6.9535° N, 122.1301° E	Land Base	new 100ft (Monopole with Guying)	attached	attached
10	RFMB -10 Camp Gen Nicolas Capistrano, Gusa, Cagayan de Oro City	8°27'13.96" N, 124°40'36.62"E	219m	Land Base	120ft (3 leg tower)	None	By vehicle/By land. Along the road.	Yes - Cagayan Electric Power & Light Company Inc.	New Radio Room	45m	Yes	Police Regional Office 10	8°28'51.25"N, 124°39'40.01"E	Roof Base	Existing 40ft Bipod	attached	attached

11	Malalag DIST Sitio Bakayan, Brgy. Bolton, Malalag, Davao del Sur	Longitude: E 125.260658 Latitude: N 06.551011	432m	Land Base	Existing 100ft (Self- Support 3-Leg Tower)	NONE	Road Access by 4X4 vehicle, Hauling Distance is 450m.	Commer cial Power	Existing Radio Room subject renovati on	50m	Yes	Camp Fermin TRIS	6°02'16.8267" N, 125°06'29.6 8"E	Land Base	120ft (Self- Support 3-Leg Tower)	attached	attached
12	REC012 Cmpd, PRO12, Tambler, Gen San City	6°02'16.826 7"N, 125°06' 29.68"E	142.4m	Land Base	120ft (Self- Support 3-Leg Tower)	DMR Trunking	Road Access.	Commer cial Power	New Radio Room	75m	yes	Malalag Bayanlal TRIS	Longitude: E12 5.260658 Latitude: N 06.551011	Landbase	100ft (self Support 3 legged tower)	attached	attached

*Note: Each Radio Room shall have the following requirement:

1. 3m x 5m (min.) floor area for each Radio Room
2. 2 sets window-type, 1HP, Inverter Type ACU for detached radio room;
3. Proper painting.
4. Cable layout with tray;
5. Grounding;
6. Electrical layout with standard conduits;
7. Container VAN, Outdoor Cabinet with appropriate ACU, or Concrete-type walling and ceiling for detached radio room;
8. Radio Cabinet occupying a space inside the room of an existing building structure must be secured with appropriate locks and keys;

(Annex 3)

DMR CONVENTIONAL REPEATER SITE INFORMATION LIST

PRO	Address	Site Coordinates	Meters Above Sea Level	Lot Size	Ownership	Collocation Agreement	Electricity	Physical Security	Accessibility	Line Of Site to nearest RCEO	Site Photos	Certification of Site Readiness
1	Carasi Police Station, Brgy. Barbaquezo, Carasi, Ilocos Norte	Latitude 18°08'21.7"N Longitude 120°49'13.3"E	200m	400sqm	PNP	None	Yes - INEC	Without fence	By vehicle/ By land	None	Attached	Attached
	103 MC, Brgy Cabaraosan, Tagudin, Ilocos Sur	Latitude 16°55'32.5"N Longitude 120°27'31"E	20m	300sqm	PNP	None	Yes - ISECO	Without fence	By vehicle/ By land	None	Attached	Attached
2	Maddela Police Station, Brgy. Villa Norte, Maddela, Quirino	Latitude 16.340212N Longitude 121.684655E	991.3m	8x8 m	PNP	None	Yes - QUELCO	PNP of MPS	By vehicle/ By land	None	Attached	Attached
	Balete Pass, Brgy. Tactac, Sta. Fe, Nueva Vizcaya	Latitude 16.1326N Longitude 120.9256E	984.6m	100 sqm	LGU	Deed of Usufruct	Yes - NUVELCO	Without fence	By vehicle/ By land	None	Attached	Attached
3	2 nd PMF Compound, Brgy. Dibacong, Casiguran, Aurora	Latitude 16°14'32"N Longitude 122°04'39"E	10m	2,459 sqm	PNP	Deed of Donation	Yes- NAPOCOR	With fence	By vehicle/ By land	None	Attached	Attached
	Sitio Karagatan, Brgy. Alasasin, Mariveles, Bataan	Latitude 14°26'37"N Longitude 120°30'48"E	270m	3,000 sqm	Mariveles LGU	Certification from LGU	YES- PENELCO	Without fence	By vehicle/ By land	None	Attached	Attached
4	Municipal Bldg. Compound, San Antonio, Zambales	Latitude 14°56'49"N Longitude 120°54'1"E	30m	225 sqm	San Antonio LGU	Certification from LGU	ZAMECO	With fence	By vehicle/ By land	None	Attached	Attached
	Jala Jala MPS, Brgy 3 rd District, Jala Jala, Rizal	Latitude 14.346707N Longitude 121.323212E		600 sqm	PNP	none	yes	With fence	By vehicle/ By land	none	Attached	Attached
5	Lucban MPS, Brgy. Tinamnan, Lucban, Quezon	Latitude 14.112509N Longitude 120.5580513E		400 sqm	PNP	none	yes	Without fence- PNP	By vehicle/ By land	none	Attached	Attached
	2nd PMFC, Brgy. Sto. Nino, Catalangan, Masbate	Latitude 13°54'27.52"N Longitude 124°18'01.60"E	4.8m	400sqm	PNP	None	FICELCO	With fence	By vehicle/ By land	77km	Attached	Attached
	Panganiban MPS, Brgy. Sta Maria,	Latitude 11°06'08.75"N	20m	2000sqm	PNP	none	MASELCO	With fence	By vehicle/ By land	92km	Attached	Attached

PRO	Address	Site Coordinates	Meters Above Sea Level	Lot Size	Ownership	Collocation Agreement	Electricity	Physical Security	Accessibility	Line Of Site to nearest RCEO	Site Photos	Certification of Site Readiness
	Panganiban, Catanduanes	Longitude 123°9'53.06"E										
6	Mt. Carapasan, Brgy Mapili, San Enrique, Iloilo	Latitude 11° 6'28.38"N Longitude 122°45'55.45"E	550.9 meters above sea level	300 sq. meters	PNP Certification	Collocated with 2 nd Iloilo Provincial Mobile Force Company	Commercial Power	Inside the premises of Iloilo Provincial Mobile Force Company	Limited Road Access by Hauling Distance is 1.3km	Line of Sight with RCEO6 with approximate air of 50 km.	With photos attached	With certificate attached
	Mt. Luho, Brgy. Balabag, Boracay, Malay, Aklan	Latitude 11°58'44.05"N Longitude 121°55'40.79"E	86.7 meters above sea level	250 sq meters	Private Lot	Collocated with the existing Back to Back repeater	Commercial Power	With duty detail of Aklan PPO uniformed - personnel	Along barangay road	w/o Line of sight to RCEO6 with approximate air distance of 160 km	With photos attached	With certificate attached
	Bacolod City Police Office Brgy. Taculing, Bacolod City, Negros Occidental	Latitude 10°39'6.84"N Longitude 122°56'32.58"E	8.5 meters above sea level	250 sq meters	PNP Certification	Collocated with Bacolod Police Office	Commercial Power	Inside the premises of BCPO	Along barangay road	w/o Line of sight to RCEO6 with approximate air distance of 40 km	With photos attached	With certificate attached
7	Brgy. Tangnan, Loon, Bohol	9.766389°N 123.7892°E	84.73m above Sea level	120 sq meters	Private Owner	None/ Without	Yes/ BOHECO	Without fence- PNP Security of MPS	By vehicle/ By land 100meters from the road	no	Attached	Attached
	Brgy. Mayaposi, Mabinay, Negros Oriental	9.648275°N 123.0147°E	400m above Sea level	150 sq meters	Private Owner	None/ Without	Yes/ NORECO	Without fence- PNP Security of MPS	By vehicle/ By land 100meters from the road	no	Attached	Attached
8	Parola, Brgy San Agustin, Limasawa, Southern Leyte	09°95'72"N, 125°06'56"E	129.2 meters	420 sq/m	Melecio Bero	yes	Commercial Power	Without Fence	By sea	No	Attached	Attached
	Brgy Payahan, Calbayog City	12°41'7"N, 124°35'34"E	41.6 meters above sea level	841 sq/m	LGU	Approved by City Mayor Hon Ronald P Aquino	Yes Sameico I	With fence	By vehicle/along the road	No	Attached	Attached
9	Ormoc CPO, Camp Downes, Ormoc City	10.9992 N, 124.6200 E	25.2m	120 sqm	Military reservation	Certification from City Director	Yes	Barb wire fence	By vehicle/along the road	Yes	Attached	Attached
	ZCPO, Corcuerra St., Zamboanga City	6.903489 N, 122.075671 E	17.1m	630sqm	City GOvt	City Hall	PRO9	PNP	By vehicle/By land	1.3Km	Attached	Attached
	National Highway, Brgy Sanito, Ipil, Zamboanga Sibugay	7.793999 N, 122.602303 E	43.8m	200sqm	PNP	HQS ZSBPPO	ZAMSURE CO II	PNP	By vehicle/By land	305 KM	Attached	Attached

PRO	Address	Site Coordinates	Meters Above Sea Level	Lot Size	Ownership	Collocation Agreement	Electricity	Physical Security	Accessibility	Line Of Site to nearest RCEO	Site Photos	Certification of Site Readiness
10	Ozamiz CPS, DAVA, Aguada, Ozamiz City, Misamis Occidental	8°9'4.76"N, 123°50'59.13"E	7m above sea level	600 sqm	PNP	None/Without	Yes - Mis Occ ECO II	Roof Top - PNP Security of CPS	By vehicle/By land. Along the road.	96.54 km	attached	attached
	Iligan City Hall Building, Buhangian Hill, Palao, Iligan City	8°13'32.13"N, 124°15'5.85"E	35m above sea level	1000 sqm	LGU	None/Without	Yes - Iligan Light & Power Inc.	Without fence/secured by Security Guard	By vehicle/By land. Along the road.	53.23 km	attached	attached
	DPWH Overview, Palacapao, Quezon, Bukidnon	7°36'9.60"N, 125° 8'53.79"E	626m above sea level	400 sqm	DPWH	Yes - RD, DPWH	Yes - Cagayan Electric Power & Light Company Inc.	Without fence/secured by Security Guard	By vehicle/By land. Along the road.	110.97 km	attached	attached
11	2 nd CVPFMC HQS, Purok 7, Sitio Lapinigan, Brgy. Cadunanan, Mabini, Compostela Valley Province	7.290974N, 125.856597"E	30m	20,000 sqm	Deed of Donation	yes	With commercial power	Secured by PNP personnel	Accessible for vehicles	none	attached	attached
	Mt. Carmel, Brgy. Kinuskusan, Bansalan, Davao del Sur	Longitude: E 125.166659 Latitude: N 06.850931	454m	100 sqm	Owned by LGU	yes	With commercial power	Secured by PNP personnel	Accessible for vehicles	none	attached	attached
	Sitio Balite, Santiago, Caraga, Davao Oriental	Longitude: E 126.572562 Latitude: N 07.279943	155m	300 sqm	Currently rented by the LGU Davao Oriental as repeater site	yes	With commercial power	Only Civilian Security (caretaker) of Globe & Smart Cellsites	Accessible for vehicles	none	attached	attached
12	Tuka, Marine Park, Kiamba, Sarangani Province	5°59'16.82"N, 125° 06'29.68"E	113m	200 sqm	Kiamba LGU	None	With commercial power	w/o fence	By foot	Yes	attached	attached
	Kalamansig MPS, Kalamansig, Sultan Kudarat	6°33'21.02"N, 124°03'01.58"E	5.2m	400 sqm	PNP Owned	None	With commercial power	w/ fence	Accessible for vehicles	Yes	attached	attached
	UK Peak, New Panay, Brgy dualing, Aleosan, Cotabato Province	7°11'10.67"N, 124°37'21.22"E	186m	400 sqm	Aleosan LGU	None	With commercial power	w/ fence	Accessible for vehicles	Yes	attached	attached

PRO	Address	Site Coordinates	Meters Above Sea Level	Lot Size	Ownership	Collocation Agreement	Electricity	Physical Security	Accessibility	Line Of Site to nearest RCEO	Site Photos	Confirmation of Site Readiness
	Bolol, Brgy Assumption, Koronadal City	6°24'49.67"N, 124°52'04.56"E	319m	500sqm	Jaime Pandat	None	With commercial power	w/o fence	By foot	Yes	attached	attached
13	P-2, Brgy Poblacion, Tagbina, Surigao Del Sur	8°27'31.49"N, 126°09'35.74"E	41m	561 sqm	LGU	On-going	Yes- SUR-SECO	Without fence/secured by PNP MPS	By vehicle/By land. Along the road.	none	attached	attached
13	Bunawan MPS Cmpd, Brgy Poblacion, Bunawan, Agusan Del Sur	8°10'44.05"N, 125°59'43.97"E	42m	1010 sqm	PNP	On-going	Yes-ASELCO	Without fence/secured by PNP MPS	By vehicle/By land. Along the road.	none	attached	attached
CO R	Sagada MPS, Patay, Mountain Province	17.08438N 120.90065E	1524m	54.1597 sq m	PNP	None / Without	Yes - MOPREC O	Without Fence- PNP security of MPS	By vehicle/By Land	None	Attached	Attached
	Alfonso Lista MPS Sta. Maria, Alfonso Lista, Ifugao	16.93728N 121.48909E	124m	500 sq m	PNP	None / Without	Yes - IFELCO	Without Fence- PNP security of MPS	By vehicle/By Land	None	Attached	Attached
	Benguet PMFC, Bangao, Buglas, Benguet	16.81457N 120.83455E	1764m	14,999 sq m	PNP	None / Without	Yes / BENECCO	Without Fence- PNP security	By vehicle/By Land	None	Attached	Attached
AR MM	Brgy Piksan, Calanogas, Lanao Del Sur	7°44'59.99"N, 124°05'60.00"E	717.3m	400 sqm	PNP	None / Without	YES- MAGELC O	With fence PNP security	By vehicle/By land. Along the road.	None	Attached	Attached
	Cotabato City Police Office, PC Hill Rosary Heights 1, Cotabato City	7.220121°N, 124.244800°E	26.5m	400 sqm	PNP	None / Without	YES-	With fence PNP security	By vehicle/By land. Along the road.	None	Attached	Attached
4B	Brgy I, Coron, Palawan	12.00N 120.210E	250m	9,290 sqm	DND	None / Without	Yes - BISELCO	With fence	By vehicle/By land. Along the road.	NONE	Attached	Attached
	Police Station, Hama Street, Brgy. Masagana, El Nido Palawan	11°10'48"N, 119°23'23"E	100m	300 sqm	PNP	Deed of Donation	Yes- BISELCO	With fence	By vehicle/By land. Along the road.	NONE	Attached	Attached

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Republic of the Philippines
NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
Camp BGen Rafael T Crame, Quezon City



November 26, 2020

SMD-GSS-2020-11-26mr

**DISTRIBUTION LIST OF COMMUNICATION EQUIPMENT
(PSDBM PROCUREMENT)**

UNIT	HANDHELD	BASE	MOBILE	REPEATER	TRUNKED RADIO SYSTEM
PRO COR	50		14		1
Abra PPO	40	2	30		
Apayao PPO	20	2	9		
Benguet PPO	40	2	25	1	
Ifugao PPO	40	2	20	1	
Kalinga PPO	40	2	10		
Mt Province PPO	20	2	10	1	
Baguio CPO	40	2	27		
Sub-Total > > > >	310	14	145	3	1
PRO 1	50				
Ilocos Norte PPO	40	2	10	1	
Ilocos Sur PPO	40	2	15	1	
Pangasinan PPO	40	2	50		
La Union PPO	40	2	10		
Sub-Total > > > >	210	8	85	2	
PRO 2	50		3		
Cagayan PPO	40	2	15		
Isabela PPO	40	2	15		
Nueva Vizcaya PPO	40	2	5	1	
Quirino PPO	40	2	5	1	
Santiago CPO	40	2	1		
Sub-Total > > > >	250	10	44	2	
PRO 3	50		10		
Aurora PPO	40	2	10	1	
Bataan PPO	40	2	15	1	
Bulacan PPO	40	2	15		
Nueva Ecija PPO	40	2	15		
Pampanga PPO	40	2	20		
Tarlac PPO	40	2	15		
Zambales PPO	40	2	15	1	
Angeles CPO	40	2	15		
Olongapo CPO	40	2	9		
Sub-Total > > > >	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		
	Batangas 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	
	Romblon 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		
	Iloilo CPO	40	2	4	1	
	Negros Occidental PPO	40	2	15		
	Bacolod CPO	40	2	10	1	
	Sub-Total > > > >	370	16	66	4	1
	PRO 7	50		15		
	Cebu CPO	40	2	15		
	Cebu PPO	40	2	20		
	Bohol PPO	40	2	20		
	Siquijor 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	
	Lanao Del Norte PPO	40	2	15		
	Comiguin PPO	20	2	6		
	Misamis Occidental PPO	40	2	10	1	
	Misamis Oriental PPO	40	2	15		
	Cagayan De Oro CPO	40	2	9		
	Iligan 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		
	Davao del Norte PPO	40	2	10		
	Davao Oriental PPO	40	2	15	1	
	Davao CPO	40	2	5		
	Davao 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		
Agusan Del Norte PPO	40	2	10		
Agusan Del Sur PPO	40	2	10	1	
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		16		
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	6		
Sub-Total > > > >	290	12	84	2	
NCRPO	200		44		1
NHQ/NSU	185		100		
CES (Reserve)	472	2	49	1	
Sub-Total > > > >	857	2	193		
GRAND TOTAL > > >	5,507	200	1,500	41	8

(Annex 5)

PROPOSED DISTRIBUTION OF DIGITAL RADIOS

PRO	Handheld	Base	Mobile	Repeater	Trunked Radio System
PRO 1	50				
Ilocos Norte PPO	40	2	10	1	
Ilocos Sur PPO	40	2	15	1	
Pangasinan PPO	40	2	50		
La Union PPO	40	2	10		
Total	210	8	85	2	
PRO 2	50		3		
Cagayan PPO	40	2	15		
Isabela PPO	40	2	15		
Nueva Vizcaya PPO	40	2	5	1	
Quirino PPO	40	2	5	1	
Santiago CPO	40	2	1		
Total	250	10	44	2	
PRO 3	50		10		
Aurora PPO	40	2	10	1	
Bataan PPO	40	2	15	1	
Bulacan PPO	40	2	15		
Nueva Ecija PPO	40	2	15		
Pampanga PPO	40	2	20		
Tarlac PPO	40	2	15		
Zambales PPO	40	2	15	1	
Angeles CPO	40	2	15		
Olongapo CPO	40	2	9		
Total	410	18	139	3	
PRO 4A	50		10		
Cavite PPO	40	2	10		
Laguna PPO	40	2	10		
Batangas PPO	40	2	15		
Rizal PPO	40	2	10	1	
Quezon PPO	40	2	10	1	
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	
Romblon PPO	40	2	5		
Puerto Princesa PPO	40	2	5		
Total	290	12	35	2	

PRO 5...

PRO	Handheld	Base	Mobile	Repeater	Trunked Radio System
PRO 5	50		11		1
Albay PPO	40	2	10		
Camarine 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		
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		
Iloilo CPO	40	2	4	1	
Negros Occidental PPO	40	2	15		
Bacolod CPO	40	2	10	1	
Total	370	16	66	4	1
PRO 7	50		15		
Cebu CPO	40	2	15		
Cebu PPO	40	2	20		
Bohol PPO	40	2	20		
Siquijor PPO	20	2	10	1	
Mandaue CPO	40	2	10		
Negros Oriental PPO	40	2	15	1	
Total	270	12	105	2	
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		
Norther Samar PPO	40	2	15	1	
Tacloban CPO	40	2	6		
Ormoc PPO	20	2	6	1	
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		
Total	210	8	43	2	1

PRO 10...

PRO	Handheld	Base	Mobile	Repeater	Trunked Radio System
PRO 10	50		15		1
Bukidnon PPO	40	2	15	1	
Lanao 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		
Iligan CPO	40	2	15	1	
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		
Davao del Norte PPO	40	2	10		
Davao Oriental PPO	40	2	15	1	
Davao CPO	40	2	5		
Davao Occidental PPO	40	2	0	1	
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		
Total	250	10	57	3	1
PRO 13	50		18		
Agusan del Norte PPO	40	2	10		
Agusan del Sur PPO	40	2	10	1	
Surigao del Norte PPO	40	2	15		
Surigao del Sur PPO	40	2	15	1	
Dinagat Island PPO	30	2	9		
Butuan CPO	40	2	11		
Total	280	12	88	2	
PRO ARMM	50		16		
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	6		
Total	290	12	84	2	

PRO COR...

PRO	Handheld	Base	Mobile	Repeater	Trunked Radio System
PRO COR	50		14		1
Abra PPO	40	2	30		
Apayao PPO	20	2	9		
Benguet PPO	40	2	25	1	
Ifugao PPO	40	2	20	1	
Kalinga PPO	40	2	10		
Mt Province PPO	40	2	10	1	
Baguio CPO	40	2	27		
Total	310	14	145	3	1
NCRPO	200	0	44		1
NHQ/NSU	185	0	100		
CES (Reserve)	472	2	49	1	
Grand Total	5,507	200	1,500	41	8

Note: CES reserve repeater will utilize a 12 meter telescopic mast.

Site List of Base Radio

No.	PRO	ADDRESS	OWNERSHIP	LOT AREA	PHYSICAL SECURITY	SITE APPROVAL
1	1	Vigan City Police Station, Brgy. VIII, Vigan City, Ilocos Sur	PNP	Co-locate with existing Antenna Post	PNP personnel	PNP Certification
2		Tagudin Police Station, Brgy. Del Pilar, Tagudin, Ilocos Sur	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
3		Laoag City Police Station, Brgy 1, San Lorenzo, Laoag City, Ilocos Norte	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
4		Carasi Police Station, Brgy Barbaquez, Carasi, Ilocos Norte	PNP	Co-locate with the proposed conventional repeater	PNP personnel	PNP Certification
5		Caba Police Station, Brgy Poblacion Sur, Caba, La Union	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
6		San Juan Police Station, San Juan, La Union	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
7		Dagupan City Police Station, Dagupan City, Pangasinan	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
8		San Carlos City Police Station, San Carlos City, Pangasinan	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
9	2	Amulong Police Station, Cagayan Valley Rd, Amulong, Cagayan	PNP	4mx6m	PNP personnel	PNP Certification
10		Tuguegarao City Police Station, Tuguegarao City, Cagayan	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
11		Diffun Police Station, Andres Bonifacio, Diffun, Quirino	PNP	7mx10m	PNP personnel	PNP Certification
12		Nagtipunan Police Station, Ponngo, Nagtipunan, Quirino	PNP	10mx10m	PNP personnel	PNP Certification
13		Santiago City Police Office, Brgy Victory Norte, Santiago City	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
14		Police Staion 1, Santiago City Police Office, Santiago City	PNP	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
15		Solano Police Station, Bonifacio Street, Solano, Nueva Viscaya	PNP	5mx5m	PNP personnel	PNP Certification
16		Alfonso Castaneda Police Station, Brgy Lublub, Alfonso Castaneda, Nueva Viscaya	LGU	2mx2m	PNP personnel	PNP Certification
17	3	Cauayan City Police Station, Cauayan City, Isabela	PNP	Requires new antenna Post at roof top	PNP personnel	PNP Certification
18		Ilagan City Police Station, San Vicente, Ilagan City, Isabela	PNP	Requires new antenna Post at roof top	PNP personnel	PNP Certification
19		Dinalungan Police Station, Pob. Zone 2, Dinalungan, Aurora	PNP	500sqm	PNP personnel	PNP Certification

20	3	Dilasag Police Station, De Leon St., Maligaya, Dilasag, Aurora	PNP	600sqm	PNP personnel	PNP Certification
21		Bagac Police Station, Brgy Atilano Ricardo, Bagac, Bataan	PNP	626sqm	PNP personnel	PNP Certification
22		Morong Police Station, Brgy Poblacion, Morong, Bataan	LGU	128sqm	PNP personnel	PNP Certification
23		Meycauayan City Police Station, Brgy Camalig, Meycauayan City, Bulacan	PNP	Requires new antenna Post at roof top	PNP personnel	PNP Certification
24		Calumpit Police Station, Municipal Cmpd, Brgy Balungao, Calumpit, Bulacan	LGU	160sqm	PNP personnel	PNP Certification
25		309th Bongabon PB, 1st PMFC, Brgy Tugatog, Bongabon, Nueva Ecija	PNP	10mx10m	PNP personnel	PNP Certification
		Llanera Police Station, Brgy Victoria, Llanera, Nueva Ecija	with deed of donation from LGU	7mx7m	PNP personnel	PNP Certification
26		Sto Tomas Police Station, San Vicente, Sto Tomas, Pampanga	LGU	4mx4m	PNP personnel	PNP Certification
27		San Fernando City Police Station, Diosdado Macapagal Govt Center, Brgy Maimpis, San Fernando City, Pampanga	PNP	3903sqm	PNP personnel	PNP Certification
28		Anao Police Station, Brgy Pob., Anao, Tarlac	Donated by LGU	Requires new antenna Post at roof top	PNP personnel	PNP Certification
29		Mayantoc Police Station, Brgy Pob. Sur, Mayantoc, Tarlac	PNP	Requires new antenna Post at roof top	PNP personnel	PNP Certification
30		Angeles City Police Office, Camp TJ Pepito, Sto. Domingo, Angeles City	LGU	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
31		Police Station 4, Brgy Balibago, Angeles City	LGU	Co-locate with existing Antenna Post at roof top	PNP personnel	PNP Certification
32		Sta Cruz Police Station, Brgy Pob. South, Sta Cruz, Zambales	LGU	80sqm	PNP personnel	PNP Certification
33		San Antonio Police Station, Brgy Rizal, San Antonio, Zambales	LGU	100sqm	PNP personnel	PNP Certification
34		Police Station 5, Horseshoe Drive, Brgy Sta Rita, Olongapo City	LGU	150sqm	PNP personnel	PNP Certification
35		Police Station 6, Ilo-Ilo St., Brgy Barretto, Olongapo City	LGU	est. 100 sqm	PNP personnel	PNP Certification
36		Llanera Police Station, Brgy Victoria, Llanera, Nueva Ecija	with deed of donation from LGU	7mx7m	PNP personnel	PNP Certification
37	4A	Maragondon Police Station, Brgy Garita A, Maragondon, Cavite	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification

38	4A	Ternate Police Station, Brgy Poblacion 1A, Ternate, Cavite	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
39		Majayjay Police Station, Brgy Sta Catalina, Majayjay, Laguna	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
40		Nagcarlan Police Station, Brgy Poblacion 3, Nagcarlan, Laguna	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
41		San Juan Police Station, Brgy Pob., San Juan, Batangas	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
42		Calatagan Police Station, Brgy Pob. 2, Calatagan, Batangas	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
43		Mauban Police Station, Brgy. Polo, Mauban, Quezon	PNP	180sqm	PNP personnel	PNP Certification
44		Pagbilao Police Station, Brgy. Ikirin, Pagbilao, Quezon	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
45		Cardona Police Station, Brgy. San Roque, Cardona, Rizal	PNP	Requires New Antenna Post at roof deck	PNP personnel	PNP Certification
46		Baras Police Station, Brgy. Santiago, Baras, Rizal	PNP	500 sqm	PNP personnel	PNP Certification
47	5	Polangui Police Station, Polangui, Albay	LGU	Requires New Antenna 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 40ft Antenna Post from the ground	PNP personnel	PNP Certification
49		Vinzons Police Station, Sitio Mangcawayan, Brgy Calangcawan Sur, Vinzons, Camarines Norte	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
50		Sagnay Police Station, Sagnay, Camarines Sur	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
51		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 New Antenna Post at roof top	PNP personnel	PNP Certification
53		San Andres Police Station, Brgy San Roque, San Andres, Catanduanes	PNP	Requires New Antenna 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	7569sqm	PNP personnel	PNP Certification
56		Palanas Police Station, Brgy Pob., Palanas, Masbate	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
57		Pio V. Corpuz Police Station, Brgy Pob., Pio V. Corpuz, Masbate	PNP	Co-locate with existing Antenna Post	PNP personnel	PNP Certification

58	5	Sorsogon City Police Station, Brgy Cabid-an, Sorsogon City, Sorsogon	PNP	Co-locate with existing Antenna Post	PNP personnel	PNP Certification
59		Gubat Police Station, Gubat, Sorsogon	PNP	Requires New Antenna Post 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	6	Balete Police Station, Brgy Poblacion, Balete, Aklan	PNP	100sqm	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	612sqm	PNP personnel	PNP Certification
64		Tobias Fornier Police Station, Brgy Poblacion Norte, Tobias Fornier,	PNP	100sqm	PNP personnel	PNP Certification
65		Cuartero Fornier Police Station, Brgy Poblacion Ilawod, Cuartero, Capiz	PNP	50sqm	PNP personnel	PNP Certification
66		President Roxas Police Station, Brgy Cabug Cabug, President Roxas, Capiz	PNP	100sqm	PNP personnel	PNP Certification
67		Buanavista Police Station, Brgy Poblacion, Buenavista, Guimaras	PNP	2.5mx3.5m	PNP personnel	PNP Certification
68		Sibunag Police Station, Brgy Dasal, Sibunag, Guimaras	PNP	100sqm	PNP personnel	PNP Certification
69		Miagao Police Station, Mueda St., Brgy Guibongan, Miagao, Iloilo	PNP	100sqm	PNP personnel	PNP Certification
70		2nd Iloilo PMFC, Brgy Zerrudo, Sara, Iloilo	PNP	60sqm	PNP personnel	PNP Certification
71		Police Station 9, Bacolod City Police Office, Araneta St., Brgy Sum-ag, Bacolod City	PNP Owned	120 sqm	PNP personnel	PNP Certification
72		Police Station 10, Bacolod City Police Office, Zone 7, Brgy Handumanan, Bacolod City	PNP Owned	150 sqm	PNP personnel	PNP Certification
73		Cadiz City Police Station, Gustilo Blvd., Brgy Zone 1, Cadiz City, Negros Occidental	PNP	60 sqm	PNP personnel	PNP Certification
74		Himamaylan City Police Station, Brgy Talaban, Himamaylan City, Negros Occidental	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification

75	7	City Mobile Force Company, Cebu City Police Office, Sawang Calero, Cebu City	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
76		Talamban Police Station (Station 8), Cebu City Police Office, Brgy Talamban, Cebu City	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
77		City Mobile Force Company, Madaue City Police Office, Brgy Tipolo, Madaue City	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
78		Mobile Patrol Group, Madaue City Police Office, Brgy Tipolo, Madaue City	PNP	Requires New Antenna 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 Certification
80		Santander Police Station, Brgy Poblacion, Santander, Cebu (for Construction)	PNP	100sqm	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	75sqm	PNP personnel	PNP Certification
83		San Juan Police Station, Brgy Poblacion, San Juan, Siquijor	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
84		Siquijor Police Station, Brgy Poblacion, Siquijor, Siquijor	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
85	8	Loboc Police Station, Brgy Poblacion Sawang, Loboc, Bohol	PNP	Requires New Antenna Post at roof top (but with distant LGU Tower)	PNP personnel	PNP Certification
86		Carmen Police Station, Brgy Poblacion Sur, Carmen, Bohol	PNP	100sqm	PNP personnel	PNP Certification
87		Victoria Police Station, National Road, Victoria, Northern Samar	PNP	Requires New Antenna Post at roof top	PNP personnel	PNP Certification
88		Allen Police Station, Brgy Sabang 2, Allen, Northern Samar	PNP	Requires New Antenna Post at the back	PNP personnel	PNP Certification
89		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 Antenna Post at the side	PNP personnel	PNP Certification
91		Pambujan Police Station, Pambujan, Northern Samar	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
92		Ormoc City Police Office, Camp Downes, Ormoc City	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
93		Police Station 2, Ormoc City Police Office, Brgy Cambuhangin, Ormoc City	PNP	Requires New Antenna Post at the side or roof top	PNP personnel	PNP Certification
94		Tacloban City Police Office, Paterno Ext., Tacloban, Leyte	PNP	Requires New Antenna Post at the back	PNP personnel	PNP Certification

95	8	Police Station 2, Tacloban City Police Office, Downtown, Tacloban, Leyte	PNP	Requires New Antenna Post at the back	PNP personnel	PNP Certification
96		Police Station 1, Tacloban City Police Office, Paterno Ext., Tacloban, Leyte	PNP	Requires New Antenna 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	Requires New Antenna Post at the side	PNP personnel	PNP Certification
99		Calbayog City Police Station, Brgy Aguit-itan, Calbayog City, Samar	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
100		Catbalogan City Police Station, Del Rosario St., Catbalogan City, Samar	PNP	Requires New Antenna Post at the rooftop 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	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
103		Maydolong Police Station, National Highway, Maydolong, Eastern Samar	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
104	9	Tungawan Police Station, Brgy Libertad, Tungawan , Zamboanga Sibugay	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
105		RT Lim Police Station, Brgy Katipunan, RT Lim , Zamboanga Sibugay	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
106		Tukuran Police Station, Brgy Curvada, Tukuran , Zamboanga Del Sur	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
107		Aurora Police Station, Brgy Poblacion, Aurora, Zamboanga Del Sur	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
108		Jose Dalman Police Station, Brgy Poblacion, Jose Dalman, Zamboanga Del Norte	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
109		Dapitan City Police Station, Brgy Sta Cruz, Dapitan City, Zamboanga Del Norte	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
110		Police Station 9, Zamboanga Police Office, Zone 3, Brgy Ayala, Zamboanga City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification

111	9	Police Station 8, Zamboanga Police Office, Brgy Sinunuc, Zamboanga City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
112	10	Valencia City Police Station, Brgy Poblacion, Valencia City, Bukidnon	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
113		Maramag Police Station, Brgy North Poblacion, Maramag, Bukidnon	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
114		Mambajao Police Station, Brgy Poblacion, Mambajao, Camiguin	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
115		Mahinog Police Station, Brgy Poblacion, Mahinog, Camiguin	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
116		Kapatagan Police Station, Brgy Poblacion, Kapatagan, Lanao Del Norte	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
117		Tubod Police Station, Brgy Poblacion, Tubod, Lanao Del Norte	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
118		Aloran Police Station, Brgy Ospital, Aloran, Misamis Occidental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
119		Lopez Jaena Police Station, Brgy Eastern, Lopez Jaena, Misamis Occidental	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
120		Jasaan Police Station, Brgy Poblacion, Jasaan, Misamis Oriental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
121		Tagoloan Police Station, Brgy Poblacion, Tagoloan, Misamis Oriental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
122		Cagayan De Oro City Police Office, Brgy 40, Cogon, Cagayan De Oro City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
123		Police Station 8, Cagayan De Oro City Police Office, Brgy Lumbla, Cagayan De Oro City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
124		Iligan City Police Office, Camp Tomas Cabili, Brgy Tipanoy, Iligan City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
125		Police Station 5, Iligan City Police Office, Brgy Poblacion, Iligan City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
126	11	Island Garden City of Samal Police Station, Brgy Penaplata, Samal District, Island Garden City of Samal, Davao Del Norte	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
127		Talaingod Police Station, Sto Nino, Talaingod, Davao Del Norte	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification

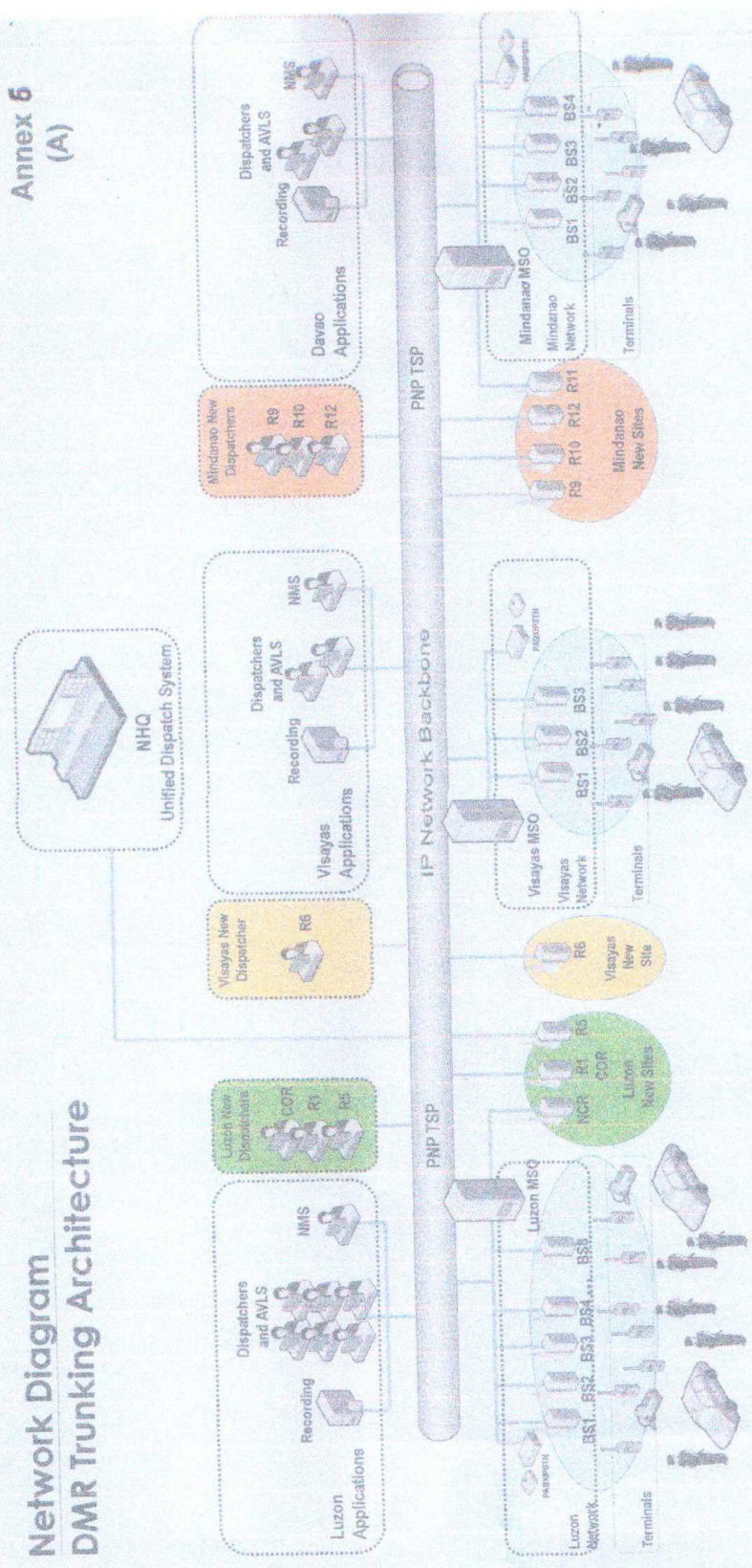
128	11	Matanao Police Station, Purok Tahimik, Brgy Poblacion, Matanao, Davao Del Sur	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
129		Bansalan Police Station, Brgy Poblacion Dos, Bansalan, Davao Del Sur	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
130		Boston Police Station, Brgy Poblacion, Boston, Davao Oriental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
131		Baganga Police Station, Brgy Central, Baganga, Davao Oriental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
132		Compostella Police Station, Brgy Poblacion, Compostella, Compostella Valley	PNP	with Antenna Post at the side	PNP personnel	PNP Certification
133		Montevista Police Station, Brgy Poblacion, Montevista, Compostella Valley	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
134		Sta Maria Police Station, Brgy Poblacion, Sta Maria, Davao Occidental	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
135		Don Marcelino Police Station, Brgy Lawa, Don Marcelino, Davao Occidental	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
136		Police Station 9, Davao City Police Office, Tugbok District, Brgy Mintal, Davao City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
137		Police Station 11, Davao City Police Office, Baguio District, Davao City	PNP	Requires New Antenna Post at the rooftop	PNP personnel	PNP Certification
138	12	Banisilan Police Station, Banisilan, Cotabato	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
139		Carmen Police Station, Brgy Poblacion, Carmen, Cotabato	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
140		Glan Police Station, Brgy Taluya, Glan, Sarangani Province	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
141		Malungon Police Station, Brgy Poblacion, Malungon, Sarangani Province	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
142		Lambayog Police Station, Brgy Poblacion, Lambayog, Sultan Kudarat	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
143		Polomoloc Police Station, Brgy Magsaysay, Polomoloc, South Cotabato	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
144		Police Station 7, General Santos City Police Office, Purok 11B, Brgy Fatima, General Santos City	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification

145	12	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		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	13	Police Station 5, Butuan City Police Office, San Mateo, Butuan City	PNP	with 20 ft 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 Post at the side	PNP personnel	PNP Certification
150		Surigao City Police Station, Borromeo St., Surigao City	PNP	with Antenna Post at the side	PNP personnel	PNP Certification
151		Claver Police Station, Claver, Surigao del Norte	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
152		Barobo Police Station, Barobo, Surigao del Sur	PNP	with 20 ft Antenna Post at the side	PNP personnel	PNP Certification
153		Bislig City Police Station, Brgy Poblacion, Bislig City, Surigao del Sur	PNP	with 20 ft Antenna Post at the rooftop	PNP personnel	PNP Certification
154		Bayugan City Police Station, Bayugan City, Agusan Del Sur	PNP	with 20 ft Antenna Post at the rooftop	PNP personnel	PNP Certification
155		Trento Police Station, Trento, Agusan Del Sur	PNP	with 20 ft Antenna Post at the side	PNP personnel	PNP Certification
156		Cabadbaran City Police Station, Cabadbaran City, Agusan Del Norte	PNP	with 20 ft Antenna 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 ft Antenna Post at the side	PNP personnel	PNP Certification
159		San Jose Police Station, San Jose, Dinagat Island	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
160	B A R M M	Picong Police Station, Brgy Tual, Picong, Lanao Del Sur	PNP	1000sqm	PNP personnel	PNP Certification
161		Saguiran Police Station, Brgy Poblacion, Saguiran, Lanao Del Sur	PNP	400sqm	PNP personnel	PNP Certification
162		Tipo-Tipo Police Station, Tipo-Tipo Proper, Tipo-Tipo, Basilan	PNP	400sqm	PNP personnel	PNP Certification

163	B A R M M	Maluso Police Station, Brgy Townsite, Maluso, Basilan	PNP	800sqm	PNP personnel	PNP Certification
164		Talayan Police Station, Brgy Poblacion, Talayan, Maguindanao	PNP	400sqm	PNP personnel	PNP Certification
165		Pangutaran Police Station, Brgy Poblacion, Pangutaran, Sulu	PNP	400sqm	PNP personnel	PNP Certification
166		Simunul Police Station, Brgy Tubig-Indangan, Simunul, Tawi-Tawi	PNP	1200sqm	PNP personnel	PNP Certification
167		Cotabato City Police Office, PC Hill, Rosary Heights, Cotabato City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
168		Police Station 3, Cotabato City Police Office, Brgy Datu Balabaran, Cotabato City	PNP	100sqm	PNP personnel	PNP Certification
169		Datu Saudi Ampatuan Police Station, Brgy Salbu, Datu Saudi Ampatuan, Parang Maguindanao	PNP	400sqm	PNP personnel	PNP Certification
170		Panglima Tahil Police Station, Brgy Poblacion, Panglima Tahil, Sulu	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
171		Sibuto Police Station, Brgy Haji Bidin, Sibuto, Tawi-Tawi	PNP	500sqm	PNP personnel	PNP Certification
172	COR	Flora Police Station, Brgy Poblacion West, Flora, Apayao	PNP	Requires New Antenna Post at the side	PNP personnel	PNP Certification
173		Putdol Police Station, Putdol, Apayao	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
174		Bangued Police Station, Brgy Torrijos St., Zone 5, Bangued, Abra	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
175		Baguio City Police Office, Abanao St., Baguio City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
176		Police Station 2, Baguio City Police Office, Magsaysay Ave., Baguio City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
177		PMFC, Camp Molintas, Bangao, Buguias, Benguet	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
178		Sablan Police Station, Brgy Poblacion, Sablan, Benguet	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
179		Alfonso Lista Police Station, Brgy Sta Maria, Alfonso Lista, Ifugao	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
180		Lagawe Police Station, Brgy Poblacion North, Lagawe, Ifugao	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification

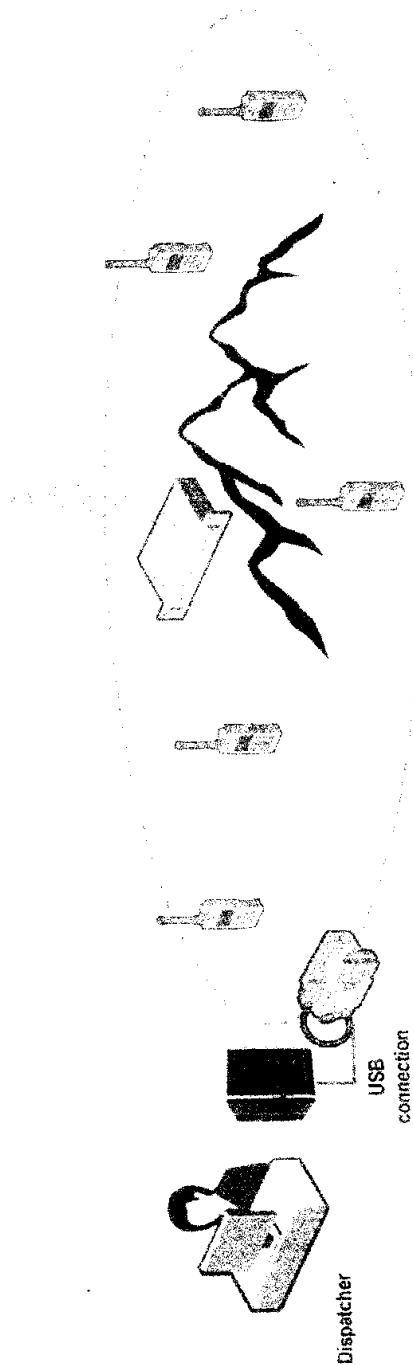
181	COR	Lubuagan Police Station, Brgy Poblacion, Lubuagan, Kalinga	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
182		Tabuk City Police Station, Brgy Dagupan Centro, Tabuk City, Kalinga	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
183		Bauko Police Station, Brgy Kaguimongan, Abatan, Bauko,	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
184		Bontoc Police Station, Bontoc, Mountain Province	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
185	4B	San Jose Police Station, San Jose, Occidental Mindoro	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
186		Magsaysay Police Station, Magsaysay, Occidental Mindoro	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
187		Boac Police Station, Boac, Marinduque	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
188		Gasan Police Station, Brgy Uno, Gasan, Marinduque	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
189		Calapan Police Station, Brgy Guinobatan, Calapan City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
190		Roxas Municipal Police Station, Brgy 2, Roxas Palawan	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
191		Aborian Municipal Police Station, Brgy Ramon Magsaysay, Aborian, Palawan	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
192		Romblon Municipal Police Station, Cor Mayor St., Romblon Romblon	PNP	with Antenna Post at the rooftop	PNP personnel	PNP Certification
193		Romblon Police Provincial Office, Brgy Capacian, Romblon Romblon	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
194		Puerto Princesa City Police Office, Police Station 2, Brgy Sta Monica, Puerto Princesa City	PNP	Requires New Antenna Post at the rooftop or side	PNP personnel	PNP Certification
195		Puerto Princesa City Police Office, Police Station 1, Valencia St., Brgy Model, Puerto Princesa City	PNP	Requires New Antenna Post at the rooftop 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
197-200	CES	Four (4) Sets shall be reserved for CES Camp Crame, Quezon City	PNP	reserved	reserved	reserved

Network Diagram DMR Trunking Architecture



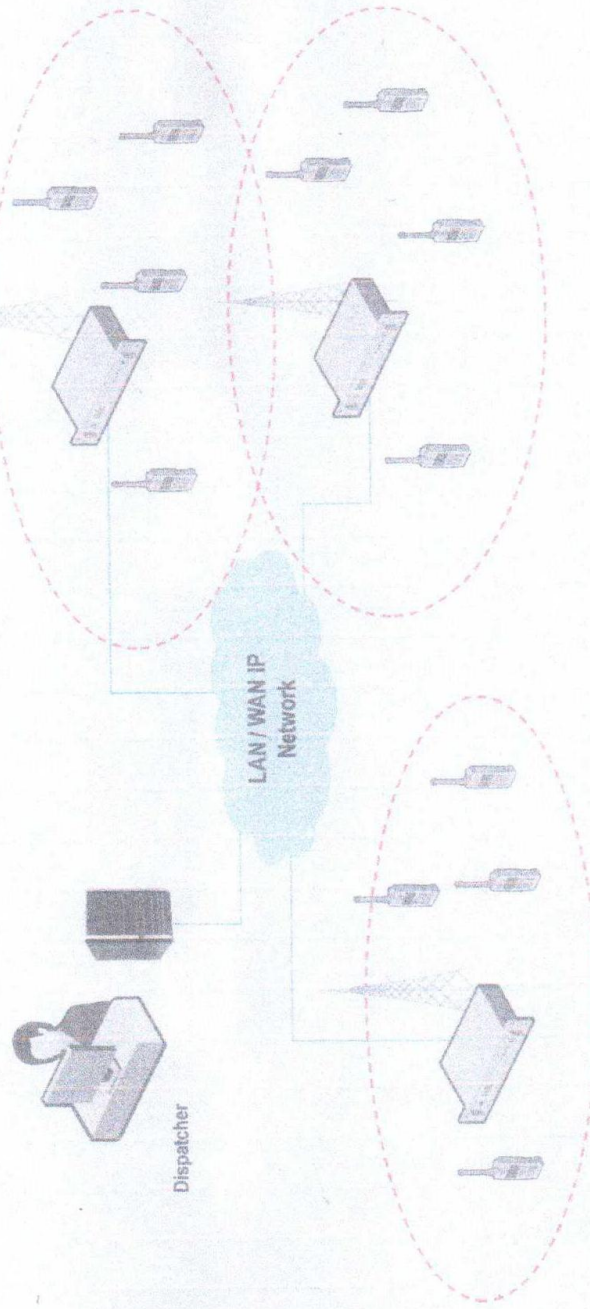
Network Diagram
DMR Conventional Architecture

Annex 6
(B)



Annex 6
(C)

Network Diagram
DMR Conventional Architecture



(Annex 7)

DMR CONVENTIONAL REPEATER ALTERNATE SITE INFORMATION LIST

PRO	Address	Site Coordinates	Meters Above Sea Level	Lot Size	Ownership	Collocation Agreement	Electricity	Physical Security	Accessibility	Line Of Site to nearest RCEO	Site Photos	Certification of Site Readiness
3	Brgy Poblacion, City of San Jose Delmonte, Bulacan	Latitude 14.8080N Longitude 121.0650E	40m	1,356 sqm	PNP	none	Yes-Meralco	With fence	By vehicle/ By land	None	Attached	Attached
	San Jose City PS, San Jose Nueva Ecija	Latitude 15°47'48.52"N Longitude 120°58'41.69"E		75,267 sqm	PNP	none	YES-SJELCO	Without fence	By vehicle/ By land	None	Attached	Attached
6	Altavas Municipal Police Station, Brgy Poblacion, Altavas, Aklan	Latitude 11°32'N Longitude 122°29'E		100 sq. meters	PNP Certification	none	Commercial Power	With fence	By vehicle/ By land	none	attached	attached
7	Brgy. Cambance, Looc, Bohol	9.632953°N 124.0453°E	333.8m above sea level	200 sq meters	LGU	None/Without	Yes/BOHECO	Without fence, with existing analog repeater	By vehicle/ By land 50meters from the road	none	Attached	Attached
11	Cateel MPS, Sitio Tinimbo, Brgy Poblacion, Cateel, Davao Oriental	7.796345N, 126.450621°E	500m	20,000 sqm	LGU	Deed of donation	DORECO	With fence	Accessible for vehicles	none	attached	attached
	Sitio Cape, Purok San Roque, Brgy Maag, San Isidro, Davao Oriental	Longitude: E 125.166659 Latitude: N 06.850931	615m	300 sqm	Rented by LGU	yes	With commercial power	With fence	Accessible for vehicles	none	attached	attached
	2 nd DNPMFC, Brgy New Malibog, Panabo City	Latitude: 7°18'N Longitude: 125°41'E	17.5m	14,255 sqm	private	Deed of donation	With commercial power	PNP personnel	Accessible for vehicles	none	attached	attached
AR MM	Talayan MPS, Pob., Talayan, Maguindanao	6°59'4.20"N, 124°21'23.89"E	26.5m	400 sqm	PNP	None / Without	YES-LASURECO	With fence PNP security	By vehicle/By land. Along the road.	None	Attached	Attached

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) 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,
and
- ☐ (c) 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;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- ☐ (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**
- ☐ (f) Statement of the bidder’s Single Largest Completed Contract (SLCC) 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;
and
- ☐ (g) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (h) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- ☐ (i) Original duly signed Omnibus Sworn Statement (OSS);
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

- ☐ (j) 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

- ☐ (l) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;

or

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.

Other documentary requirements under RA No. 9184 (as applicable)

- ☐ (m) *[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.

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (a) Original of duly signed and accomplished Financial Bid Form; **and**
- ☐ (b) Original of duly signed and accomplished Price Schedule(s).

Bid Form

Date: _____
Invitation to Bid No: PB No. 20-058-10

To: **PS-DBM BAC X Chairperson**
Procurement Service
PS Complex, RR Road
Cristobal St., Paco, Manila

Gentlemen and/or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers [____], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to **SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM** for Philippine National Police in conformity with the said Bidding Documents.

Lot No.	Qty/Unit	ITEMS/ DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 Lot	SUPPLY, DELIVERY, DESIGN, INSTALLATION, PROGRAMMING, TESTING, TRAINING AND COMMISSIONING OF DIGITAL RADIO SYSTEM		
Item 1		HANDHELD RADIO TRANSCEIVER		
Item 2		BASE RADIO TRANSCEIVER		
Item 3		MOBILE RADIO TRANSCEIVER		
Item 4		DIGITAL TRUNKED RADIO SYSTEM		
Item 5		DIGITAL CONVENTIONAL RADIO REPEATER conforms to NAPOLCOM Resolution No. 2016-806. See Attached Annex E		

TOTAL PRICE IN WORDS:

Lot 1: _____

Item 1: _____

Item 2: _____

Item 3: _____

Item 4: _____

Item 5: _____

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 BDS provision for **ITB** Clause 18.2 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 behalf of _____

Schedule of Prices for Goods Offered From Abroad

Name of Bidder: _____ PB No. 20-058-10 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)

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Schedule of Prices For Goods Offered From Within the Philippines

Name of Bidder: _____

PB No. 20-058-10

Page ____ of ____

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation 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]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

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:
- Carefully examining all of the Bidding Documents;
 - Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - 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. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code;
11. *[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 the reglementary periods stated in the bidding documents and the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall commence from receipt thereof.

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of ____, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ until _____
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.*

"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.

Date of the Contract	Contracting Party	Name of Contract	Kind of Goods Sold	Amount of Contract	Date of Delivery/ End-user's Acceptance	Date of Official Receipt	Bidder is A. Manufacturer B. Supplier C. Distributor

Name and Signature of
Authorized Representative

Date

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 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
Authorized Representative

Date

Instructions:

- a) State all 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 **JOINT VENTURE AGREEMENT** (hereinafter referred to as the “Agreement”), entered into this _____ day of _____ 20__ at _____ City, Philippines by and among:

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as “_____”;

- and -

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as “_____”;

- and -

_____ a foreign corporation organized and existing under and by virtue of the laws of _____, represented by its _____, _____, hereinafter referred to as “_____”;

(Henceforth collectively referred to as the “**Parties**”

WITNESSETH: That

WHEREAS, the Procurement Service (PS) has recently published an Invitation to Apply for Eligibility and to Bid for the Supply and Delivery of _____ for the _____ ;

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 Philippines, for the purpose of participating in the abovementioned procurement of PS-DBM;

NOW, THEREFORE, for and in consideration of the foregoing premises and the covenants hereto set forth, the Parties have agreed as follows:

ARTICLE I ORGANIZATION OF THE JOINT VENTURE

SECTION 1. Formation – The Parties do hereby agree and bind themselves to establish, form and organize a Joint Venture pursuant to the laws of the Republic of the Philippines, in order for the JV to 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 _____ ;

SECTION 4. Preparation and Documentation – The Parties shall secure and/or execute such certifications, documents, deeds and instruments as may be required by the laws of the Republic of the Philippines for the realization of the JV and in compliance with the Project. Further, they shall do all other acts and things requisite for the continuation of the JV pursuant to applicable laws;

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.	-	P	.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.

SECTION 4. Governing Law - This Agreement shall be governed by and construed according to the laws of the Republic of the Philippines. Venue of any court action arising from this Agreement shall be exclusively laid before the proper court of the _____, Philippines.

IN WITNESS WHEREOF, the parties have set their hands and affixed their signatures on the date and place first above-stated.

--	--

Signed in the Presence of:

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.
PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of _____(indicate also the Province in the case of Municipality_____, this _____ day of _____(month & year)_____ personally appeared the following:

Name

ID Name, Number and Validity Date

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of _____ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

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]

IBP No. ___, [date issued], [place issued]

Doc. No. ____

Page No. ____

Book No. ____

Series of ____.

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.

“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

SUPPLIER'S LETTERHEAD

Date

**Chairperson
PS-DBM Bids and Awards Committee X
Paco, Manila**

Dear Sir:

This has reference to Public Bidding No. 20-058-10 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 that _____waives 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

WHEREAS, _____ (*Name and Address of Supplier*) (hereinafter called “the Supplier”) has undertaken, in pursuance of Notice of Award No. _____ dated _____ to execute (*Name of Contract and Brief Description*) (hereinafter called “the Contract”);

AND WHEREAS, it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS, we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE, we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of [*Amount of Guarantee*] proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [*Amount of Guarantee*] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of issue of the Final Acceptance [Inspection, & Certification of Acceptance Report(I.C.A.R)].

SIGNATURE AND SEAL OF THE
GUARANTOR
NAME OF BANK
ADDRESS
DATE

BID SECURING DECLARATION FORM

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

X-----X

BID SECURING DECLARATION **Invitation to Bid: Public Bidding No. 20-058-10**

To: **Procurement Service**
PS Complex, RR Road
Cristobal St., Paco, Manila

I/We¹, the undersigned, declare that:

1. 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.
2. 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.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) 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;
 - (c) 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 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 this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

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.*

“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

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 PHILIPPINES)
CITY OF _____) S.S.

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/manufacture/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

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s known to me, and known to be the same person/s in the exhibited [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorney's No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

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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 PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.
PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of _____ (indicate also the Province in the case of Municipality), this _____ day of _____ (month & year) personally appeared the following:

Name

ID Name, Number and Validity Date

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of _____ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

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]

IBP No. __, [date issued], [place issued]

Doc. No. ____

Page No. ____

Book No. ____

Series of ____.

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.

“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

