



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Atmospheric, Geophysical and
Astronomical Services Administration (PAGASA)



BIDS AND AWARDS COMMITTEE PHILIPPINE BIDDING DOCUMENTS

FOR THE

**“Establishment of New Doppler Weather
Radar Station in Hinatuan”**

PR 2024-11-0779 EPA | IB 2025-21

Approved Budget for the Contract: Php245,000,000.00

**Sixth Edition
July 2020**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

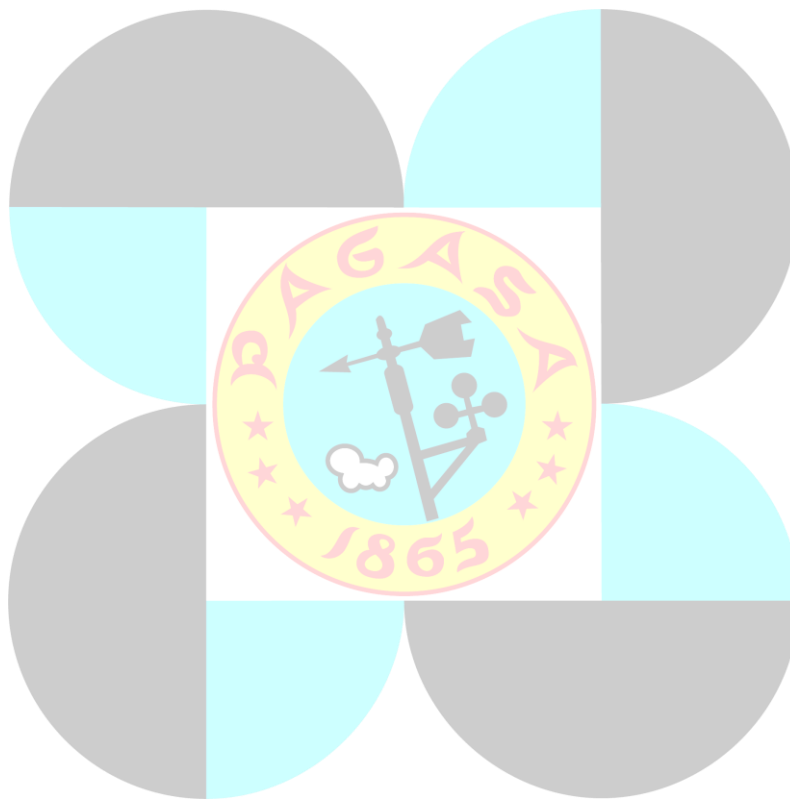




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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

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)

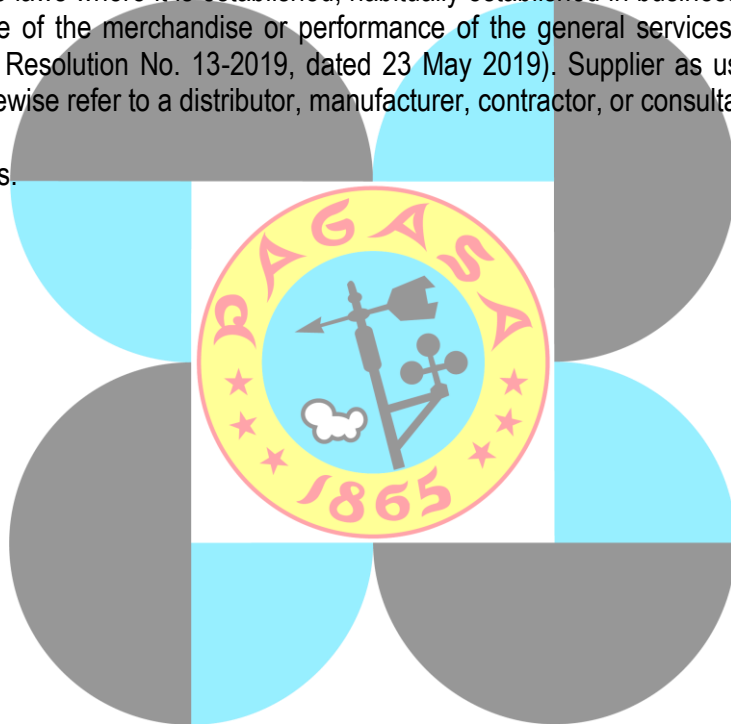
PSA – Philippine Statistics Authority.

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

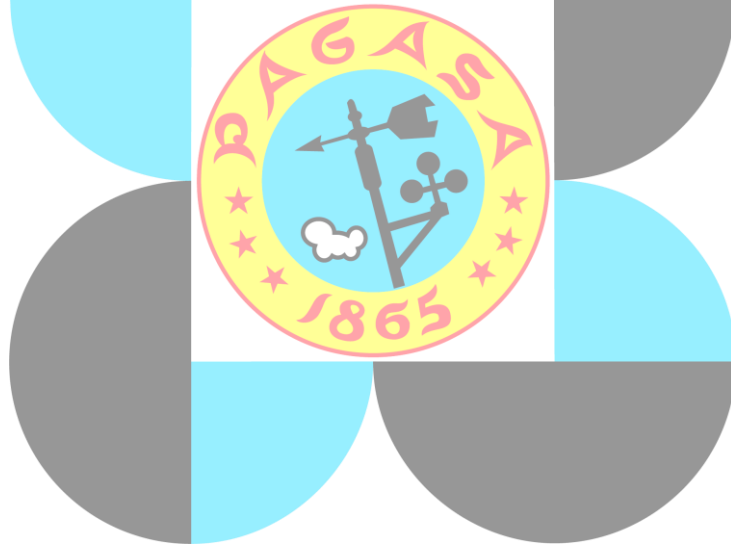
Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria (*e.g.*, the application of a margin of preference in bid evaluation).

The IB should be incorporated in the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.





INVITATION TO BID FOR THE

Establishment of New Doppler Weather Radar Station in Hinatuan

1. The **Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)**, through the 2025 General Appropriations Act (GAA) intends to apply the sum of **Two Hundred Forty-Five Million pesos (Php245,000,000.00) only**, being the ABC to payments under the contract for the **“Establishment of New Doppler Weather Radar Station in Hinatuan,” under PR No. 2024-11-0779 EPA | IB 2025-21**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **PAGASA** now invites bids for the above Procurement Project. Delivery completion shall be made within **18 months**. Price is inclusive of VAT and all other applicable taxes. Price validity is one hundred twenty (120) calendar days. Bidders should have completed, within **ten (10) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
 - a. 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 No. 5183.
4. Prospective Bidders may obtain further information from **PAGASA-BAC Secretariat** and inspect the Bidding Documents at the address given below from **9:00 a.m. to 4:00 p.m.** It may also be downloaded at the PhilGEPS and PAGASA website free of charge.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **09 June 2025** from the given address below upon payment of a non-refundable fee in the amount of **Fifty Thousand pesos (Php50,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means. **Prospective Bidders are highly encouraged to pay the bid documents fee at least one (1) day before the deadline for submission and opening of bids.**
6. The **PAGASA** will hold a Pre-Bid Conference on **17 June 2025, 10:00 a.m.** at the **Amihan Conference Room, 2/F PAGASA Central Office²** and/or through Video Conferencing which shall be open to prospective bidders. **Maximum of two (2) representatives per bidder shall be allowed during the in-person conference.** Prospective bidders are encouraged to send **written requests for clarifications at least three (3) calendar days** before the scheduled pre-bid conference, addressed to the PBAC Chairperson, in order to facilitate the preparation of responses thereto, which will be discussed during the pre-bid conference.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated **below on or before 01 July 2025, 10:00 AM**. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on **01 July 2025 10:01 AM** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The complete schedule of bidding activities is summarized as follows:

Activities	Schedule / Time	Venue
1. Posting of Invitation to Bid	09-16 Jun 2025	N/A
2. Issuance of Bidding Documents	09 Jun 2025 (9:00 a.m.- 4:00 p.m.) to 01 Jul 2025 (until 9:00 a.m. only) except on weekends and holidays	Records Management Section (RMS) 3/F PAGASA Central Office
3. Pre-Bid Conference	17 Jun 2025 10:00 AM	Amihan Conference Room^{2*} 2/F PAGASA Central Office
4. Submission of Bid Documents (Envelopes 1&2)	01 Jul 2025 on or before 10:00 AM	Records Management Section (RMS) 3/F PAGASA Central Office; or, the designated place for the Opening of Bids
5. Opening of Bids (Envelopes 1&2)	01 Jul 2025 10:01 AM	Amihan Conference Room^{2*} 2/F PAGASA Central Office

Note: Bidders may attend the Pre-bid Conference through videoconferencing via Zoom Meeting App. Bidders who wish to attend/participate via Zoom Meeting must coordinate with the BAC Secretariat through email **at least one (1) day** before the scheduled bid activity and provide their contact information (name of company, name of representative, email address, contact number). Bidders are advised to send their authorized representatives who will prepare the bid documents to ensure completeness of bids. **Bidders are prohibited from recording** (audio, video or picture format) the proceedings of the Pre-bid Conference.

11. The **PAGASA** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

MA. ANNALYN S. NOLASCO

Head, BAC Secretariat

Records Management Section, 3/F PAGASA Main Building, Science Garden Complex,
Sen. Miriam Defensor-Santiago Ave., Brgy. Central, Quezon City

Trunkline: (02) 8284-0800 loc.1357

Email address: pagasa.bac@gmail.com / bac@pagasa.dost.gov.ph

13. You may visit the Official website of PAGASA for downloading of the Bidding Documents at <https://bagong.pagasa.dost.gov.ph/index.php/news-and-events/bidding-and-shopping>

SHIRLEY J. DAVID
Chairperson, PAGASA-BAC

Date of Issue: 09 Jun 2025

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.



1. Scope of Bid

The Procuring Entity, **Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)** wishes to receive Bids for the **Establishment of New Doppler Weather Radar Station in Hinatuan** with identification number **PR 2024-11-0779 EPA || IB 2025-21**.

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **CY 2025** in the amount of **Two Hundred Forty-Five Million Pesos (Php245,000,000.00) only**.

2.2. The source of funding is:

The **CY 2025 General Appropriations Act**.

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 limited to those allowed under the rules may participate in this Project.
- 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:
- a. 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:

- a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed fifty percent (50%) of the contracted Works.
- 7.2. The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.3. 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 and/or through as indicated in **paragraph 6 and 10 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 the period of ten (10) years as provided in paragraph 2 of the IB** 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 the **BDS**.

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.
- ii. The price of other (incidental) services, if any, as listed in the **BDS**.

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 **Philippine Pesos**.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration¹ 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**.

¹ In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

- 14.2. The Bid and bid security shall be valid **for One Hundred Twenty (120) calendar days from the date of 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 (1) original copy and two (2) photocopies 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 and 10 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 and 10 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 Entity's 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 14 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/sub-lots that which 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

- 20.2. 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

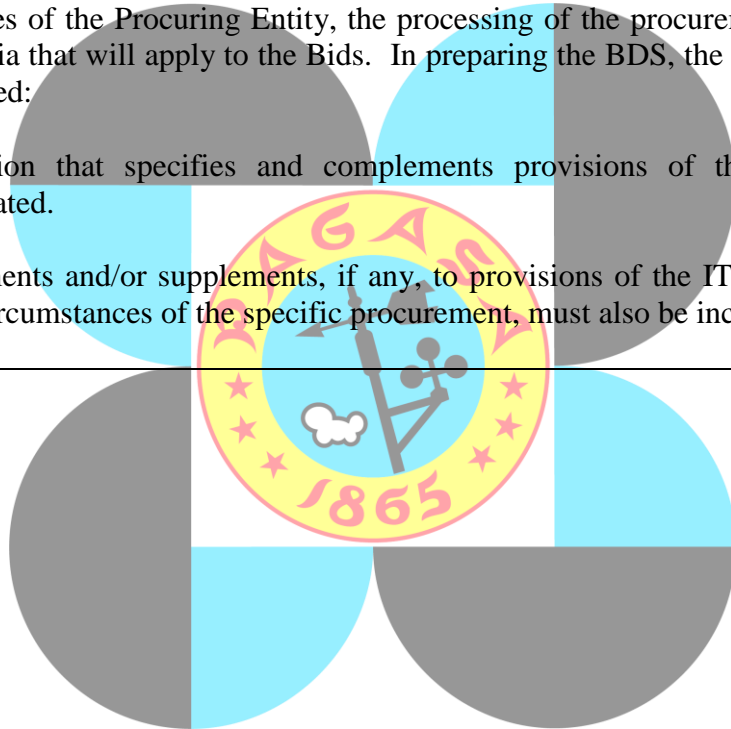
Notes on the Bid Data Sheet

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.



Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ol style="list-style-type: none"> a. Supply, delivery, installation, testing and commissioning of a Weather Radar System including provision of allied maintenance services. b. With a completed contract that is similar in nature and complexity within ten (10) years prior to the deadline for the submission and receipt of bids.
7.1.(a)	<p>Subcontracting is allowed.</p> <p>The Procuring Entity (PAGASA) shall allow prospective bidder to sub-contract the following components of the Project:</p> <p>FOR GOODS</p> <ol style="list-style-type: none"> 1. Communication Component; and 2. Supply and delivery of Basic Meteorological Instruments <p>The amount shall not exceed 20% of the total project cost for goods. <i>(Refer to TOR Communications requirement and Basic Met)</i></p> <p>FOR INFRA</p> <ol style="list-style-type: none"> 1. The Infrastructure Component/s of the Project <p>The amount shall not exceed fifty percent (50%) of the contracted Works. <i>(Please refer to TOR Section XI)</i></p> <p>7.2 The Bidder must specifically identify in its Bid in writing the component/s of the Project that will be subjected to subcontracting. Moreover, the subcontractor/s of each subcontracted component must be identified in the bid submitted by the Bidder.</p> <p>Upon determination of the Bidder with the Lowest Calculated and Responsive Bid (LCRB) and prior to the issuance of the Notice of Award, the latter shall be notified by the PAGASA-BAC to submit within the non-extendible 10 calendar days the documentary requirements of its identified subcontractor(s) complying with the eligibility criteria stated in ITB Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.</p> <p>7.4 The subcontracting arrangement shall not relieve the Bidder of any liability or obligation under the contract. Moreover, subcontractors are obliged to comply with the provisions of the contract and shall be jointly and severally liable with the principal supplier, in case of breach thereof, in so far as the portion of the contract subcontracted to it is concerned.</p> <p>7.5.3 Subcontractors must meet the eligibility criteria and shall submit the same eligibility</p>

<p>7.5.4</p> <p>7.5.5</p> <p>7.5.6</p> <p>7.5.6.1</p> <p>7.5.6.2</p> <p>7.5.6.3</p>	<p>documents as the general contractor.</p> <p>Failure of a subcontractor to meet the eligibility criteria does not affect the eligibility of the general contractor for the procurement project. In such case, the portion intended to be subcontracted to the ineligible subcontractor shall be assumed by the general contractor.</p> <p>The general contractor shall remain liable for the subcontractor's actions, defaults, delays, and negligence;</p> <p>The general contractor and the subcontractor are obliged to comply with the provisions of the contract and shall share liability, jointly and severally, in cases of violation of safety standards or other labor standards insofar as the subcontracted portion is concerned; and</p> <p>For the purpose of post-qualification in accordance with Section 63 of this IRR, the value of the entire completed and accepted project, including the subcontracted portion, shall be credited as experience of the general contractor. In the case of the subcontractor, the following rules shall apply:</p> <p>The subcontractor shall get credit for one hundred percent (100%) of the value of the subcontracted portion of the project performed;</p> <p>Subcontractors shall be eligible to concessional windows of GFIs that treat receivables from the government as loan security; the receivables of subcontractors due from their general contractor shall similarly be accepted as loan security by GFIs; and</p> <p>Contract performance monitoring, such as the use of Constructors Performance Evaluation System (CPES), among others, shall also be mandatorily applied to the work experience of the subcontractors.</p>
<p>12</p>	<p>All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.</p>
<p>14.1</p>	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than Php4,900,000.00 or 2% of the ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than Php12,250,000.00 or 5% of the ABC if bid security is in Surety Bond.
<p>15</p>	<p>Bidders shall enclose their Original Eligibility and Technical documents described in ITB Clause 12 in one sealed envelope; and, their Original Financial Component in another sealed envelope with the following marking on each of the two envelopes:</p>

(Indicate above if "Original"
"Copy 1" or "Copy 2")

TECHNICAL COMPONENT

BID FOR THE

IB No. _____

Company Name (in capital letters)
Company Address (in capital letter)

SHIRLEY J. DAVID
Chairperson
PAGASA BIDS AND AWARDS COMMITTEE
(PAGASA-BAC)
PAGASA Science Garden Complex, Senator Miriam Defensor Santiago Ave.,
Brgy Central, Quezon City

DO NOT OPEN BEFORE _____
(Indicate the Date and Time of Opening of Bids)

Notes:

(Indicate above if "Original"
"Copy 1" or "Copy 2")

FINANCIAL COMPONENT

BID FOR THE

IB No. _____

Company Name (in capital letters)
Company Address (in capital letter)

SHIRLEY J. DAVID
Chairperson
PAGASA BIDS AND AWARDS COMMITTEE
(PAGASA-BAC)
PAGASA Science Garden Complex, Senator Miriam Defensor Santiago Ave.,
Brgy Central, Quezon City

DO NOT OPEN BEFORE _____
(Indicate the Date and Time of Opening of Bids)

1.

Bid envelopes that are not properly sealed and marked, and documents not properly tabbed, shall be accepted, provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

2. Bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed".

19.3	One (1) lot
19.4	One Project having several items that shall be awarded as one contract.
20.2	<p>For purposes of post-qualification, the following document(s)/items shall be required:</p> <ol style="list-style-type: none"> 1) Latest Generated Income Tax Returns (<i>for CY 2024</i>) filed thru eFPS; 2) Latest Generated Business Tax Returns filed thru eFPS; (<i>covering the period of six (6months from the date of opening of bids)</i>) 3) Latest Tax Clearance 4) PCAB License for the sub-contractor or partner for the Infrastructure component 5) Authority to Purchase for the Communication component (NTC) for the communication component. 6) Other permits and licenses deemed necessary by the PAGASA-BAC <p>NOTE: <i>Documents to be submitted during post-qualification must be Original documents or Certified true Copy of the Original duly certified by the Bidder or their duly authorized representative.</i></p>
21.2	<p>Permits from the local government units and other government agencies pertinent and relevant to the project must be made available to the Procuring Entity.</p> <p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.</p> <p>Complete Eligibility and Technical and Financial Components of the subcontractor of the winning bidder pursuant to Section 23.1 of the 2016 revised IRR of RA No. 9184.</p>

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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 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. *[[Include if Framework Agreement will be used:]] In the case of Framework Agreement, the Bidder may opt to furnish the performance security or a Performance Securing Declaration as defined under the Guidelines on the Use of Framework Agreement.*

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 *[[Include if Framework Agreement will be used:]]* 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 VII (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

For Goods

- 5.1 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.
- 5.2 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.

For Infrastructure

- 5.3 In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 5.4 The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

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.

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

Section V. Special Conditions of Contract

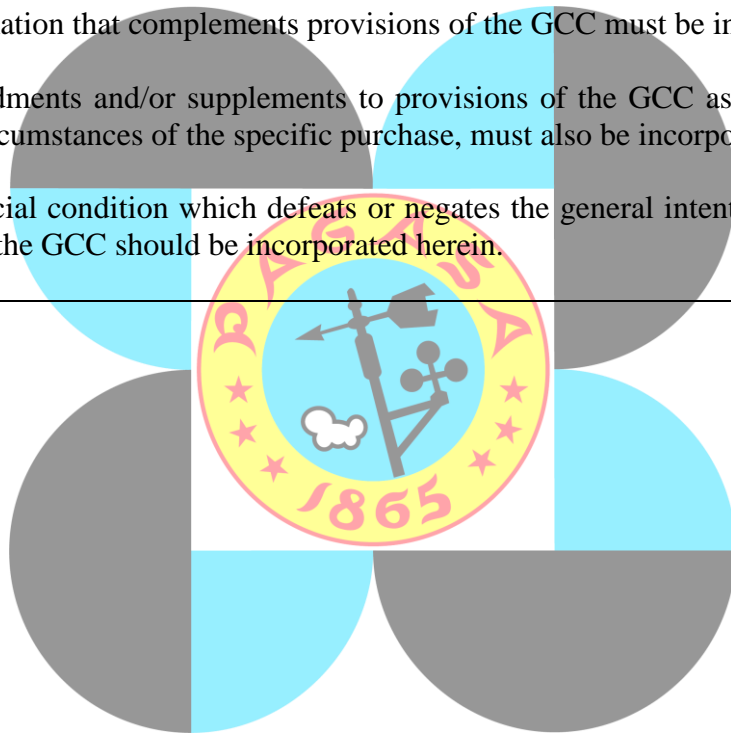
Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.



Special Conditions of Contract

GCC Clause	
1	<p>The Intended Completion Date is eighteen (18) months upon receipt of the Notice to Proceed.</p> <p>Note: The contract duration shall be reckoned five (5) calendar days from the receipt of the NTP.</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,</i> “The delivery terms applicable to the Contract are DDP delivered at PAGASA Hinatuan Radar Site. In accordance with INCOTERMS.”</p> <p><i>For Goods supplied from within the Philippines,</i> “The delivery terms applicable to this Contract are delivered at the PAGASA Hinatuan Radar Site. Risk and title will pass from the Supplier to the Procuring Entity only 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</p> <p>Ms. Anianita R. Fortich MPRSD Chief</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; 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

	<p>supplied Goods.</p> <p>f. <i>[Specify additional incidental service requirements, as needed.] refer to TOR for infra</i></p>
	<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> <ol style="list-style-type: none"> 1. 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 2. in the event of termination of production of the spare parts: <ol 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 2 years.</p> <ul style="list-style-type: none"> ○ The warranty for parts and services shall be TWO (2) YEARS ON-SITE on the Doppler Weather Radar System. The warranty service begins after the final result of the site acceptance test (SAT) ○ The warranty for all other equipment and accessories is valid for one year. <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within three (3) to six (6) 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: Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)</p> <p>Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions 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</p>

	<p>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	<p>Payment Terms —</p> <p>The amount of the advance payment is 15% of the total contract price.</p> <p>If progress payment is preferred</p> <p>The bidder shall submit a cash flow proposal as part of their bid submission, in alignment with the Schedule of Requirements outlined in the Program Schedule.</p> <p>Progress Payment:</p> <p>Progress payments may be allowed. If so, the terms shall be as follows:</p> <ul style="list-style-type: none"> • Payments will be made based on the completion of specific project milestones or work stages, as approved by the procuring entity. • Each payment shall be subject to the submission of required documentation, such as progress reports, invoices, and inspection or acceptance certificates. • The detailed payment schedule shall be agreed upon prior to contract signing.
4	<p>Inspections and Tests–</p> <p>The inspections and tests that will be conducted are: <i>[refer to TOR]</i></p>
5	<p>Warranty – For Goods <i>[Refer to the TOR for further details, in addition to the provisions listed below]</i></p> <p>For Doppler Weather Radar System</p> <ul style="list-style-type: none"> ○ The warranty for parts and services shall be TWO (2) YEARS ON-SITE on the Doppler Weather Radar System. The warranty service begins after the final result of the site acceptance test (SAT) ○ The warranty for all other equipment and accessories is valid for one year. ○ All goods to supply should be free from all defects. They should be of the highest grade, consistent with the established and generally accepted standards for the material of the type used, and in full conformity with the specifications, drawings, or samples, and shall operate properly. ○ Any custom charges for re-exporting or re-importing defective, repaired, or replaced parts back to the contractor's country for repairs will be the

	<p>responsibility of the contractor.</p> <ul style="list-style-type: none"> ○ Transportation costs for sending defective parts for repairs, as well as returning repaired or replaced parts to the radar site, shall be covered by the contractor. <p>For Lightning Protection</p> <ul style="list-style-type: none"> ○ Five (5) years <p>For Structure Cabling Component</p> <ul style="list-style-type: none"> ○ Five (5) years
5.2	<p>Warranty – For infrastructure component</p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i></p> <p>The warranty against Structural Defects/Failures is Fifteen (15) years.</p> <p>In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.</p> <p>The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity.</p>
6	<p>Liability of the Supplier</p> <p>In the event that the Supplier is a joint venture, all members of the joint venture shall be jointly and severally liable to the Procuring Entity for the fulfillment of the contractual obligations, including the delivery of goods, performance of services, and any liabilities arising from the contract. This liability shall remain in effect for the duration of the contract and any applicable warranty or defect liability period.</p>

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Weeks/Months
	<i>Establishment of New Doppler Weather Station in Hinatuan</i>	1	1	18 months
1	Design Phase			
	Site Visit and Conduct Construction Survey			
	Preparation of Preliminary Drawings and Design Calculations and Preliminary Cost Estimates			
	Submission and approval of Good for Construction Drawings and approval			
2	Construction Implementation Phase			
	Mobilization			
	Permits and Clearances			
	Site Development Works			
	Construction of Doppler Radar Tower/Synoptic Station (Complete Architectural, Structural, Sanitary, Plumbing, Electrical, Mechanical, Fire Protection and Fire Alarm System, Smoke Detection System, ICT)			
	Construction of Powerhouse (Complete)			
	Construction of Public CR and Guardhouse			
	Construction of Perimeter Fence (Complete)			
	Construction of Cistern Tank with pres			
	Construction of Septic Tank (Complete)			
	Construction of Drain Field for Septic Tank's waste			
	Installation of 220V, 60 Hz Single-Phase Power			
	Installation of communication link (lease-line) from Hinatuan radar site to PAGASA Central office with 1 year subscription			
3	Radar Installation Phase			
	Supply, Delivery, Installation, Testing, Training and Commissioning of S-Band, Weather Surveillance, Doppler Radar Equipment (From Port of			

	<i>Manila)</i>			
4	Weather Observation Instrument Installation			
	Supply, Delivery, Installation, and Commissioning of basic meteorological instruments including accessories			



Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words “*or at least equivalent.*” References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

In case of Renewal of Regular and Recurring Services, the Procuring Entity must indicate here the technical requirements for the service provider, which must include the set criteria in the conduct of its performance evaluation.



Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not 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 un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
1 lot	<i>Establishment of New Doppler Weather Radar Station in Hinatuan</i>	
1	Supply, Delivery, Installation, Training, Testing and Commissioning of S-Band Dual Polarization Doppler Weather Radar including accessories	
1.1	a. Site Development <ul style="list-style-type: none"> ○ Geotechnical Investigation (Boring Test) ○ Boundary Survey and Topographic Survey ○ Instrument Area Garden ○ Parking Area ○ Storm Drainage System ○ Stainless Steel Station Signage ○ Perimeter Fence, gate, service steel gate, Fence Lighting and Street Lighting ○ Landscaping; inclusion of ornamental features, planting of trees and shrubs 	

	<ul style="list-style-type: none"> o Construction of Drain Field b. Construction of Concrete Doppler Radar Tower/Synoptic Station Building c. Construction of Powerhouse d. Construction of Public Comfort Rooms (PWD, Male and Female comfort rooms) e. Construction of Guard House f. Construction of reinforced 5.0-meter-wide, 600 meters in length, 150mm. thick concrete access road with pedestrian sidewalk on one side. g. Installation of 220 V, 60 Hz single-phase power transmission line from power source to the site including payment of Bill Deposit to local Electric Cooperative. h. Installation of communication link (lease-line) from Hinatuan radar site to PAGASA Central office with 1-year subscription. i. Installation of Potable Water Service Connection to local water utilities. j. Construction of Concrete Cistern, and Elevated Stainless-Steel Tank (4m³). k. Supply, delivery, installation, and commissioning of basic meteorological instruments. 	
2	Radar Components Details	
2.1	<ul style="list-style-type: none"> a. Supply, delivery, installation, training and commissioning of S-Band Dual-Polarization Doppler Weather Radar. b. Factory Acceptance and Testing (FAT) - 5 Inspectors <ul style="list-style-type: none"> o The FAT should be witnessed and validated within seven (7) days. o All related expenses, such as, round trip air fare, local transportation, lodging/accommodation, meals and a per diem amounting to the prevailing UNDP rate on the country of destination shall be shouldered by the winning bidder. c. Factory Training (FT) – 7 Trainees <ul style="list-style-type: none"> o The training should be attended by 7 engineers/technicians for seven (7) days o The training will primarily focus on hands-on calibration of the radar system using the maintenance software and test equipment. o All related expenses, such as, round trip air fare, local transportation, lodging/accommodation, meals and a per diem amounting to the prevailing UNDP rate on the country of destination shall be shouldered by the winning bidder. d. Project Site Acceptance and Testing (SAT) – 6 inspectors <ul style="list-style-type: none"> o The SAT should be witnessed and validated by the inspectors within three (3) days. <p>All expenses for accommodation and transportation (air/land) and a per diem of PHP 1,500.00 per day for each inspector shall be charged to the winning bidder.</p> <ul style="list-style-type: none"> o After the site acceptance test, the radar system and accessories shall be further tested for endurance by completing the 30 days continuous operation. e. Engineers and Technicians Training (On-Site) – 7 Participants <ul style="list-style-type: none"> o Training for five (5) days shall cover radar software control and operation, calibration and maintenance. o All expenses for accommodation and transportation (air/land) and a per diem of PHP 1,500.00 per day for each participant shall be charged to the winning bidder. 	

	<p>f. Software Training (On-Site) – 10 Participants from M-PRSD / DOST-CARAGA /PDRRMO</p> <ul style="list-style-type: none"> ○ Training for five (5) days shall cover radar scanning configuration, output product configuration, creation and interpretation. ○ All expenses for accommodation and transportation (air/land) and a per diem of PHP 1,500.00 per day for each participant shall be charged to the winning bidder. <p>g. Software Training (Central Office) – 10 participants</p> <ul style="list-style-type: none"> ○ Training for five (5) days shall cover radar scanning configuration, output product configuration, creation and interpretation. Expenses for meals and refreshments shall be by the contractor. <p>h. Warranty</p> <ul style="list-style-type: none"> ○ The warranty for parts and services shall be TWO (2) YEARS ON-SITE on the Doppler Weather Radar System. The warranty service begins after the final result of the site acceptance test (SAT) ○ The warranty for all other equipment and accessories is valid for one year. ○ All goods to supply should be free from all defects. They should be of the highest grade, consistent with the established and generally accepted standards for the material of the type used, and in full conformity with the specifications, drawings, or samples, and shall operate properly. ○ Any custom charges for re-exporting or re-importing defective, repaired, or replaced parts back to the contractor's country for repairs will be the responsibility of the contractor. ○ Transportation costs for sending defective parts for repairs, as well as returning repaired or replaced parts to the radar site, shall be covered by the contractor. <p>i. Technical Specifications (Minimum Requirements)</p> <ul style="list-style-type: none"> ○ The bidder must provide brochures describing the hardware's complete list of specifications and the software's lists of meteorological products and features as references to evaluate the capabilities of the offered weather radar system. <p>j. System</p> <ul style="list-style-type: none"> ○ Dual-Polarization, Doppler Weather Radar ○ Operating Frequency: S-Band (2700 – 2900 MHz) ○ Typical Operational Range: <ul style="list-style-type: none"> ● Intensity/Precipitation: >400km ● Maximum Doppler velocity: >200 m/s ○ Pulse Repetition Frequency (PRF): 250 – 2000 Hz ○ Pulse Selection Range: 0.5 - 3.3 us ○ Phase Stability: 0.15° or better <p>k. Transmitter</p> <ul style="list-style-type: none"> ○ The supplier must own the design and intellectual property rights of the transmitter. ○ Type: Coaxial Magnetron with Solid-State Modulator ○ Peak Power: 850 kW <p>l. Receiver</p> <ul style="list-style-type: none"> ○ Super heterodyne dual down conversion ○ Noise Figure (NF): ≤ 2.0 dB ○ Minimum Detectible Signal: -114 dBm or better ○ TR-Limiter: Non-Radioactive 	
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	<ul style="list-style-type: none"> ○ Automatic test signal source for automatic online calibration purposes. ○ Calibration Processes and Validation: Online and Offline <p>m. Digital Receiver and Signal Processor</p> <ul style="list-style-type: none"> ○ Multi-channel digital receiver ○ Intermediate Frequency (IF): 60 MHz ○ Minimum Processing resolution: 15.0 m or better <p>n. Antenna and Pedestal</p> <ul style="list-style-type: none"> ○ Antenna type: Parabolic prime-focus reflector ○ Antenna size: ~ 6.0 meters ○ Polarization: Dual-Polarization ○ Drive system: Gear driven ○ Geographical Alignment: Automatic Sun Tracking ○ Positioning accuracy: $\pm 0.05^\circ$ or better (Azimuth and Elevation) <p>o. RADOME</p> <ul style="list-style-type: none"> ○ Type: Sandwich, Fiberglass with Foam Core / Quasi random panel cut ○ Diameter: ~9.0 meters ○ Wind Survivability (gust): ≥ 90 m/s ○ Hydrophobic Coating <p>p. Accessories</p> <ul style="list-style-type: none"> ○ Lightning protection (De Ionization Technology) <ul style="list-style-type: none"> ● Protection Radius: Minimum of 55 meters ● Warranty: 5 Years ● Maintenance: Annual mandatory by supplier. ○ Obstruction lights <p>q. Safety System</p> <ul style="list-style-type: none"> ○ Shall comply to ISO 12100-1:2003, 12100-2:2003 and IEC 60204-1:1997 ○ A least two emergency interlocks for radar cabinets and for maintenance and repair activities. ○ Safety system for safe working in the RADOME. <p>r. Meteorological Measurement / Capabilities</p> <ul style="list-style-type: none"> ○ All workstations must be configurable to generate, process, and display comprehensive meteorological, hydrological, forecasting and warning, and sensor data integration products. ○ The system should be capable of detecting all significant hydrometeors and measuring precipitation rates (at minimum 0.1 mm/h up to 200 mm/h) up to a maximum range from the radar of 400 km. ○ The system should be capable of monitoring the status of radar components —transmitter, receiver, RADOME, antenna, and pedestal—and report the status of radar functions to the Built-In-Test Equipment (BITE) system. ○ All relevant states that could affect the performance of the radar system are continuously monitored by a control system. The maintenance software provides a detailed visualization of related information and alarms, which can be accessed remotely. In the event of severe issues, an automatic shutdown is initiated either by the radar control processor or through hardware links. ○ The bidder must provide comprehensive details of the BITE, including a list of all supervised system parameters. ○ The user should have the ability to configure and calibrate the 	
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	<p>different BITE signals.</p> <ul style="list-style-type: none"> ○ The BITE will feature a real-time display of I, Q, uncorrected Z, corrected Z, V, and W data, along with the generated dual polarization data sets. ○ The Built-In Test Equipment (BITE) must feature an automatic calibration routine for the receiver. This calibration can be performed either offline at the user's request or online during operation at user-selectable time intervals. The results of the calibration must be included in the corresponding BITE reports. ○ The BITE system must be flexible enough to accommodate future extensions with minimal additional effort, ideally without requiring intervention from suppliers or any re-compilation of software programs. It should be capable of integrating additional input sensors, whether analog or digital. The basic layout should be outlined in detail in the bid. ○ The system shall automatically calibrate geographical alignment using a sun tracking utility. <p>s. Meteorological Products – Minimum Requirements</p> <ul style="list-style-type: none"> ○ Standard Meteorological Products (or equivalent and other related products incorporated in the radar software) <ul style="list-style-type: none"> ○ PPI - Plan Position Indicator ○ RHI - Range Height Indicator ○ CAPPI - Constant Altitude PPI ○ MAX - Maximum Display ○ CMAX - Column Maximum ○ Cross-section ○ EHT - Echo Height <ul style="list-style-type: none"> ● Echo Top ● Echo Base ● Maximum ● Thickness ○ <i>Extended Meteorological Products (or equivalent and other related products incorporated in the radar software)</i> <ul style="list-style-type: none"> ● BASEZ - Base Reflectivity ● VAD - Velocity Azimuth Display ● VVP - Volume Velocity Processing ● UWT - Uniform Wind Technique ● LMR - Layer Mean Reflectivity ● VPR - Vertical Profile of Reflectivity ● SWAD - Severe Weather Analysis Display ● SMV - Spectrum at Maximum Velocity ● SRV - Storm Relative Velocity ● Point Visibility Analysis ● Significant Intensity Radial VCUT ● CONTOUR - Contour Lines ○ <i>Hydrological Products (or equivalent and other related products incorporated in the radar software)</i> <ul style="list-style-type: none"> ● SRI - Surface Rainfall Intensity ● VIL - Vertically Integrated Liquid ● PAC - Precipitation Accumulation ● RIH - Rainfall Intensity Histogram ● River Sub Catchment Accumulation ● Point Rainfall Total ● Rain Gauge Radar Total ○ <i>Meteorological Phenomena Detection/Analysis (or equivalent and</i> 	
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	<p><i>other related products incorporated in the radar software)</i></p> <ul style="list-style-type: none"> ○ Hydrometeors Detection ○ Gust Front Detection ○ Storm Structure Analysis ○ Vergence Product ○ SWI - Severe Weather Indicator <ul style="list-style-type: none"> ● Storm Structure Analysis ● Mesocyclone Detection ● Vergence Detection ● Microburst Detection ○ Volcanic Ash Detection and Classification ○ Volcanic Ash Tracking ○ Stratiform-Convective Classification <p>○ <i>Forecasting and Warning Products (or equivalent and other related products incorporated in the radar software)</i></p> <ul style="list-style-type: none"> ○ Rain Tracking ○ Centroid Tracking ○ Lightning Risk Forecast ○ Feature Detection and Warning <p>○ <i>Dual Polarization (or equivalent and other related products incorporated in the radar software)</i></p> <ul style="list-style-type: none"> ○ DP based attenuation correction ○ PhiDP filtering and KDP derivation ○ Echo Classification ○ DP Surface Rainfall Intensity ○ DP Freezing Level Analysis ○ Sea Clutter Detection and Correction ○ Hail Size Estimation <p>○ <i>Radar Composite (or equivalent and other related products incorporated in the radar software)</i></p> <ul style="list-style-type: none"> ○ COMP - Radar Composite Products ○ Radar Workstation / Radar Application Software with Permanent License <ul style="list-style-type: none"> ○ Radar control, monitoring, observation, and scheduling of volume scan. ○ Utilities must be included for system configuration and maintenance, featuring ASCOPE visualization and real-time automated radar calibration. ○ Customizable geographic display maps and text annotation. ○ The visualization must feature a global mapping display. Additionally, it should support GIS mapping layers that include oceans, seas, rivers, roads, city and place names, as well as political boundaries. ○ Automatic conversion to UF, BUFR, HDF5, XML, ASCII, and NetCDF formats, along with automatic export to another system over the network. ○ Automatically convert images to standard formats and export them over the network to another system for display. ○ Capable of automatically archiving RAW data and selected or converted products to network-attached storage (NAS) or other networked storage and computers. ○ Capability to export radar data for display in Google Earth map interface for automatic rendering of radar images. ○ All graphical user interfaces can be used in mixed operating system environments and are platform-independent. ○ <i>The Contractor shall provide updates to the radar data processing software released during the warranty period at no</i> 	
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additional cost. However, this does not include updates for the operating system or any other commercial software that operates on the LINUX/Windows workstations.

- A proposal for continued support and maintenance of the radar data processing software after the warranty period should be included in the bid.
- Workstation Specifications–Suitable for 24x7 mode of operation.
- All off-the-shelf computer hardware and supporting software must be delivered in their latest versions. The proposed versions of both the hardware and software should be included in the offer. The delivered equipment and software must meet or exceed the performance outlined in the offer, without incurring any additional costs or requiring extra efforts from PAGASA.
- **Three (3) Sets of Workstations each for Hinatuan Radar Station, Weather Forecasting, and Mindanao PRSD**
 - Processor: Intel – Server Grade
 - Motherboard: Compatible motherboard
 - Main Memory: 32 GB
 - Internal Drive (SSD): 2 x 2TB
 - Graphics: High-Performance Data Analytics
 - Network Cards: Two (2) Gigabit Ethernet ports
 - Displays: Two 22" LED monitor
 - Operating System: Linux
 - Radar Software: Full Features
 - *Accessories for Hinatuan Radar Station's Workstations*
 - Color Laser printer with scanner
 - 32 TB (usable storage) network attached storage (NAS) in RAID-6 configuration.
 - *Accessories for each FCST and M-PRSD Workstations*
 - 1-kVA UPS
 - 1-kVA Automatic Voltage Regulator
 - 32 TB (usable storage) network attached storage (NAS) in RAID-6 configuration.
- **Radar Power Supply Requirement**
 - Power source - Single-Phase / 220 VAC / 60 Hz
 - *Radar System's Accessories (Minimum Requirements)*
 - Two (2) sets 20 kVA UPS in parallel with 5 minutes battery backup intended to accommodate the radar system including workstations, communications, and network devices.
 - Enclosed Circuit Breaker (ECB) and TVSS feeding the input of the 20 kVA UPS.
 - One (1) unit 20 kVA servo type Automatic Voltage Regulator (AVR), rated input 220 VAC, fluctuation $\pm 15\%$ or better, rated output 220 VAC $\pm 1\%$ or better.
 - Customized **workstation table with 6 racks (1U)** (for communication equipment) and **8 integrated 2-gang electrical outlets**, intended to accommodate **three (3) workstations, six (6) monitors, and six (6) network devices**. Table size and configuration is to be determined.

	<ul style="list-style-type: none">○ Two (2) storage cabinet for radar parts and test equipment.<ul style="list-style-type: none">○ Materials: Steel, powdered coated, Gray○ Dimensions: 92 x 46 x 72 inches (W x D x H)○ Duty Rating: Heavy Duty○ Radar System Documentations<ul style="list-style-type: none">○ (2) copies (with e-copy) of manuals for installation, operation and maintenance, software, and parts list with part number of all the equipment. Complete details of schematic diagrams, theory of operation, and calibration and maintenance procedure.○ Two (2) copies (with e-copy) of the model number, serial number Two, and specification of individual radar system parts and accessories, including those manufactured by a third-party contractor.○ One (1) storage cabinet for radar operation and maintenance manuals.<ul style="list-style-type: none">○ Materials: Steel, powdered coated, Gray○ Dimensions: 92 x 46 x 72 inches (W x D x H)○ Duty Rating: Heavy Duty																																																					
3	ICT Component Details																																																					
3.1	<p>a. Deliverables</p> <table><tr><th>No.</th><th>Particulars</th><th>Qty.</th><th>Unit</th></tr><tr><td>1</td><td>Next gen firewall w/ sd-wan</td><td>1</td><td>Unit</td></tr><tr><td>2</td><td>48 port managed access switch</td><td>2</td><td>Units</td></tr><tr><td>3</td><td>Wireless controller</td><td>1</td><td>Unit</td></tr><tr><td>4</td><td>Access Point w/ poe</td><td>6</td><td>Units</td></tr><tr><td>5</td><td>Network cabinet 42u mdf</td><td>1</td><td>Unit</td></tr><tr><td>6</td><td>16 channel nvr w/ storage,monitor and mouse</td><td>1</td><td>Unit</td></tr><tr><td>7</td><td>CCTV camera</td><td>8</td><td>Units</td></tr><tr><td>8</td><td>Ups 1kva</td><td>1</td><td>Unit</td></tr><tr><td>9</td><td>Structured cabling system 96 nodes</td><td>1</td><td>Lot</td></tr><tr><td>10</td><td>Ipvpn & internet</td><td>1</td><td>Lot</td></tr><tr><td>11</td><td>DESKTOP COMPUTER and PRINTER</td><td>4</td><td>Units</td></tr><tr><td>12</td><td>VOIP w/ LICENSE</td><td>4</td><td>Units</td></tr></table> <p>b. Technical Specifications</p> <ul style="list-style-type: none">○ Next generation firewall<ul style="list-style-type: none">● <i>Physical Interface</i><ul style="list-style-type: none">▪ At least 6x 10/100/1000 BASE-T Interfaces▪ At least 4x10GE Fiber SFP+ Interfaces▪ At least 2x USB Ports▪ At least 1x Serial Port● <i>Performance</i>	No.	Particulars	Qty.	Unit	1	Next gen firewall w/ sd-wan	1	Unit	2	48 port managed access switch	2	Units	3	Wireless controller	1	Unit	4	Access Point w/ poe	6	Units	5	Network cabinet 42u mdf	1	Unit	6	16 channel nvr w/ storage,monitor and mouse	1	Unit	7	CCTV camera	8	Units	8	Ups 1kva	1	Unit	9	Structured cabling system 96 nodes	1	Lot	10	Ipvpn & internet	1	Lot	11	DESKTOP COMPUTER and PRINTER	4	Units	12	VOIP w/ LICENSE	4	Units	
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	<ul style="list-style-type: none"> ▪ Software-Defined Wide Area Network (SDWAN) Capability ▪ Web Application Firewall Firewall Throughput – 4 Gbps ▪ Concurrent TCP Connections – 1,200,000 ▪ New TCP Connections – 30,000 <ul style="list-style-type: none"> • <i>Must support policy configuration modules for the following functions from a single appliance:</i> <ul style="list-style-type: none"> ▪ IPsec Virtual Private Network (IPVPN) ▪ Secure Sockets Layer Virtual Private Network (SSLVPN) ▪ Proprietary Virtual Private Network (VPN) ▪ (WAF) ▪ Anti-Virus/Malware (AV) ▪ Intrusion Prevention System (IPS) ▪ Real-time Vulnerability Scanner • <i>Must provide an on-premise URL signature database for URL Filtering, not only rely on cloud</i> • Must support anti-virus feature that scan the files up to 20MB. • Must support anti-virus feature with compressed file detection, and support compress file with up to 16 layers. • Must provide risk analytics module that allows to scan and identify security loopholes such as open port, system vulnerabilities, weak passwords, etc. • Must have risk assessment that support major protocols such as HTTP, HTTPS, POP3, SMTP, RDP, SMB, Oracle, MSSQL, MySQL etc. • Must include the local hard disk to provide log retention and report creation of at least 30 days • <i>Must have SD-WAN capability via VPN tunnels:</i> <ul style="list-style-type: none"> ▪ Can provide intelligent or dynamic path selection ▪ Can choose the optimize link based on bandwidth-remaining ratio, application type or link quality (means packet loss, jitter, latency). • Must able to support multiple ISPs for SD-WAN. • <i>Must support WAF feature by itself, without additional devices. The WAF protection should meet at least the following specifications:</i> <ul style="list-style-type: none"> ▪ Must be able to support the attack types, such as XSS, SQL, CSRF, CC attack, OS Command Injection, Web shell, scanner blocker, path transversal etc. ▪ Be able to defense OWASP top 10 attacks ▪ Support WAF related signature on premise no less than 4500 signatures and support customize signature. ▪ Support HTTPS site protection with decryption enabled. ▪ Support weak password detection for web-based applications. ▪ Support CC attack protection ▪ Support HTTP request Anomaly detection, SQL injection in HTTP header, POST entity overflow, HTTP header overflow, etc. • <i>Must provide a real-time vulnerability analysis or passive vulnerability scan:</i> <ul style="list-style-type: none"> ▪ Detection vulnerabilities based on traffic pass through, without any active scanning activities to the servers, minimize the extra work load and other impact ▪ The vulnerabilities that can be detected includes web application vulnerability, weak password, improper configuration on web server, etc. ▪ Support generate HTML format report • <i>Must support ACL policy optimizer, which helps:</i> 	
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	<ul style="list-style-type: none"> ▪ Identify the redundant policy, expired policy, conflict policy etc. ▪ Be able to track the ACL policy life cycle, help to track every change that have been done to the ACL policies. <ul style="list-style-type: none"> • <i>Must support a dedicated ransomware protection module, which can:</i> <ul style="list-style-type: none"> ▪ Automatically scan and detect ransomware related vulnerabilities, port, weak password, brute-force attack etc. ▪ Provide dedicated GUI page to show and respond all the ransomware related vulnerabilities ▪ Can provide guidance or suggested action to admin, e.g., deploy block policy direct • <i>Must support a dedicated dashboard to summarize business system(server) relate security risks, the information provide via dashboard includes:</i> <ul style="list-style-type: none"> ▪ Business system severity level, attack events, vulnerabilities. ▪ Stages of Attack to let IT admin understand the security impact ▪ One-click to block attackers IP • <i>Must support a dedicated dashboard to summarize user relate security risks, the information provide via dashboard includes:</i> <ul style="list-style-type: none"> ▪ User severity level, attack types, attack events ▪ Stages of Attack to let IT admin understand the security impact. • Must support building a proprietary virtual private network (VPN) tunnel with the existing Head Office Firewall to ensure the security, interoperability, and ease of management. • Must support implementing security policies coming from a central manager that can manage remote offices and the existing head office firewall thus ensuring compatibility and interoperability. • To ensure the maturity of solution technology, the principal must be CMMI L5 • Certified • The proposed ICT equipment must be in level of Magic Quadrant for Network Firewalls 2022 • <i>To ensure the maturity of solution technology, the principal must have the following certification:</i> <ul style="list-style-type: none"> ▪ ISO 9001:2015 ▪ ISO/IEC 27001:2013 ▪ ISO 14001:2015 ▪ ISO/IEC 20000-1:2018 • Peripherals <ul style="list-style-type: none"> ▪ 2 x 10GB SFP+ Transceiver ○ Access switch • Key Features <ul style="list-style-type: none"> ▪ 48 x 10/100/1000BASE-T RJ-45 ports. ▪ 4 x 10GE SFP+ uplink ports, ▪ Supports: <ol style="list-style-type: none"> Rapid Spanning Tree Protocol (RSTP) and MSTP static routes, OSPF, RIPv1, RIPv2, RIPv6, VRRP DoS Protection port mirroring RRPP, ERPS 	
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	<ul style="list-style-type: none"> Physical Interface <ul style="list-style-type: none"> Switch Ports: <ol style="list-style-type: none"> 24 x RJ-45 10/100/1000BASE-T ports 4 x 10GE SFP+ ports supporting 10G or 1G Performance <ul style="list-style-type: none"> 176 Gbps Switching Capacity 132 Mpps Forwarding performance MAC Addresses: 32K RAM: 512MB Flash: 512MB VLAN IDs: 4K Jumbo Frames Must have at least 1 fan module Long term operating temperature of -5 to 50C Peripherals <ul style="list-style-type: none"> 8 x 10GB SFP+ Transceiver 8 x 10G Fiber Cable MultiMode, 1 Meter, LC-LC The proposed ICT equipment must be in level of Leader Magic Quadrant for Enterprise Wired and Wireless LAN 2024 Wireless controller <ul style="list-style-type: none"> WLAN controller should be an enterprise-class switch and scalable which will connect, controls, manage and intelligently integrates wireless Access Points (WAPs) and RF Monitors into the wired LAN. WLAN controller must support 802.11a/b/g/n/ac/ax Uplink port that supports; a. 10/100/1000Mbps (10/100/1000Base-T) copper port All ports automatically sense and negotiate speed, duplex, and MDI/MDX Settings High-speed Layer-2/Layer-3 packet forwarding The WLAN controller must support seamless roaming across Hinatuan Radar subnets. WLAN controller must perform tasks such as client authentication, policy enforcement, configuration control, fault tolerance and network expansion. High-performance packet processing provides value-added wireless services such as load balancing, rate limiting, self-healing, calibration, authentication, mobility, security, firewalls, encryption, intrusion detection and mitigation, centralized monitoring and configuration WLAN controller must work seamlessly with all the wired LAN equipment WLAN controller must support multiple APs per Hinatuan Radar building and offices and multiple users and sessions. The controller firmware can be easily upgraded, as future software releases are made available The controller must support 802.11e and Quality of Service (QoS) p. The controller must support redundancy Can be mounted in a standard 42U (19-inch) network equipment rack Mounting kits and railings must include. Globally known brand distributed in the Philippines via a locally declared company with global standard certifications like ISO, 	
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ITIL and D&B and engineers certified of the said brand.

- Access point
 - Radio
 - 802.11 a/b/g/n/ac/ax
 - Concurrent Dual-band 2.4 / 5 GHz
 - Radio Chains: 2x2(2.4Ghz) and 2x2(5Ghz)
 - 1.7 Gbps device rate
 - Up to 16 SSIDs per radio
 - Interfaces
 - 1 x 10M/100M/1GE (RJ45)
 - 1 x USB
 - Peripherals
 - 6 x POE Injector
 - Power Specification
 - DC: 12V
 - POE Power supply: 8023at/af
 - Maximum power consumption 15.3 (excluding USB)
 - Performance
 - 500 Mbps (2.4 GHz)
 - 1 Gbps (5 GHz)
 - Maximum number of users: 1024
 - Network Features
 - 802.3ab compliant
 - 802.1q compliant
 - SSID-based VLAN assignment
 - STA isolation in the same VLAN
 - LLDP
 - ACL
 - Soft Generic Routing Encapsulation
 - Network Address Translation
 - QoS Features
 - Priority mapping and scheduling
 - Queue mapping and scheduling
 - User-based bandwidth limiting
 - Airtime scheduling
 - Air Interface HQoS scheduling
 - VLAN Features
 - Beamforming
 - DL/UL MU-MIMO
 - DL/UL OFDMA
 - 802.11 dynamic frequency selection (DFS)
 - Signal sustain technology (SST)
 - Advanced cellular Coexistence (ACC)
 - 802.11k and 802.11v smart roaming
 - 802.11r fast roaming
 - Security
 - WEP, WPA2-PSK, WPA2-802.1X, WPA3-SAE, WPA3-802.1X, WPA-WPA2
 - hybrid authentication, WPA2-WPA3 hybrid authentication
 - 802.1x authentication, MAC address authentication, portal authentication
 - DHCP snooping
 - Dynamic ARP inspection
 - IP Source Guard (IPSG)
 - 802.11w Protected Management Frames (PMFs)
 - Management
 - Configuration: Web User Interface (HTTP / HTTPS), SNMP

	<ul style="list-style-type: none"> v1, v2, v3 <ul style="list-style-type: none"> ▪ Network Time Protocol (NTP) ▪ Telnet, Stelnet, SFTP ● <i>The proposed ict equipment must be in level of Leader Magic Quadrant for Enterprise Wired and Wireless LAN 2024</i> <p>○ Network cabinet 42u</p> <ul style="list-style-type: none"> ● Rack Unit (SIZE U): 42U ● Thread Type: CAGE NUT ● Usable Depth(INCHES):36 ● Door Style: Perforated ● Weight: 250lb ● External Width(Inches):24 ● External Depth(Inches):40.67 ● External Height(Inches):80 ● Internal Width(Inches):19.00 ● Rails Adjustment: Yes ● Locking Side Panels: Yes ● Color: Black (Powder Coat) ● Fans:4 ● Include: Caster, Levers ● Horizontal Mounted 24 Gang PDU <p>○ <i>Network video recorder w/ storage</i></p> <ul style="list-style-type: none"> ● Network video recorder <ul style="list-style-type: none"> ▪ H.265 + Video Compression/Third part camera supported ▪ Up to 5 Megapixel resolution recording ▪ HDMI and VGA output ▪ 1x Gigabyte network port, RJ45 interface ▪ 2x USB 2.0 ▪ RCA line for audio in and video out ▪ 16 Channel 4K NVR ▪ Hard Drive capacity to meet the 60 days (real time) retention period, 72000RPM ▪ Must have the capabilities to slow forward, fast forward, loop, single frame, E-PTZ and slice playback. ▪ At least 6 remote clients using web browser ▪ 16 PoE ports <p>● <i>Monitor</i></p> <ul style="list-style-type: none"> ▪ 32 inch branded with HDMI port ▪ Must have at least Connectivity input Digital HDMI, DVI-D, Analog (RGB) ▪ Must have at least Audio In/Out-USB External Control, IR Receiver. <p>● <i>Mouse</i></p> <ul style="list-style-type: none"> ▪ Optical ▪ 1000dpi ▪ 1.8m cable length ▪ USB type ▪ Black ▪ 413Grams ▪ Led Tracking ▪ Scrolling Wheel ▪ Plug and Play. <p>● <i>CCTV camera</i></p> <ul style="list-style-type: none"> ▪ Bullet Type ▪ 5MP real-time video recording 	
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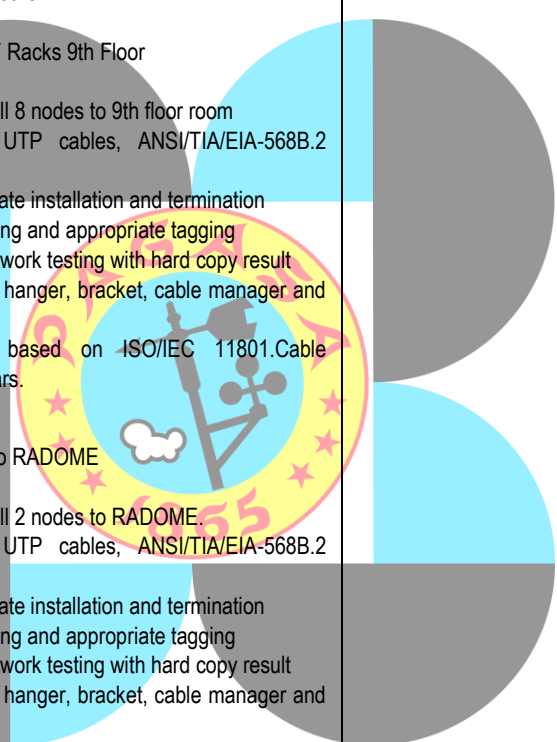
- Lens: IRI Series – 3.6mm
- Angle View: 76° (3.6mm)
- Housing: Weather Proof IP66 rated
- Indoor/Outdoor
- Distance 10m-5m
- 1x Gigabite network port, RJ45 interface

- *UPS 1KVA*

- Input Voltage: 220VAC
- Frequency: 50hz-60hz
- Format: Rack 2U
- Output Voltage: 220VAC
- Capacity VA/Wattage: 1000VA
- Surge Protection:>800J
- Wave Form Type: Pure sine wave, zero transfer time
- Efficiency (Max%): 98% ECO mode,90% online mode
- Crest factor: 5:1
- Overload Capacity: ≤ 130% for 2 min; ≤ 200% for 10 sec; >200% for 1 sec
- Battery Type: Sealed, maintenance-free lead acid
- Battery quantity and size : (2) 12V 9AH
- Typical Recharge Time (100%): < 6 hours to 90%.

- *Structure cabling component*

- MDF Rack Ground Floor to Ground floor 48 Nodes
 - i. Shall supply and install 10 nodes to conference room.
 - ii. Shall supply and install 10 nodes to radar control room.
 - iii. Shall supply and install 10 nodes to power house room.
 - iv. Shall supply and install 8 nodes to quarters room.
 - v. Shall supply and install 42U MDF Cabinet
 - vi. Shall supply and install 48 ports cat6A patch panel.
 - vii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified
 - viii. Shall include appropriate installation and termination
 - ix. Shall include harnessing and appropriate tagging
 - x. Shall include fluke network testing with hard copy result
 - xi. Shall include conduit, hanger, bracket, cable manager and support peripherals.
 - xii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years.
- MDF Racks Ground Floor to 2nd floor.
 - i. Shall supply and install 16 nodes to 2nd floor room
 - ii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified
 - iii. Shall include appropriate installation and termination
 - iv. Shall include harnessing and appropriate tagging
 - v. Shall include fluke network testing with hard copy result
 - vi. Shall include conduit, hanger, bracket, cable manager and support peripherals.
 - vii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years.
- MDF Racks Ground Floor to 3rd floor.
 - i. Shall supply and install 16 nodes to 3rd floor room
 - ii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified
 - iii. Shall include appropriate installation and termination
 - iv. Shall include harnessing and appropriate tagging

	<ul style="list-style-type: none"> v. Shall include fluke network testing with hard copy result vi. Shall include conduit, hanger, bracket, cable manager and support peripherals. vii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years. <ul style="list-style-type: none"> ▪ MDF Racks Ground Floor to 4th floor. <ul style="list-style-type: none"> i. Shall supply and install 16 nodes to 4th floor room ii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified iii. Shall include appropriate installation and termination iv. Shall include harnessing and appropriate tagging v. Shall include fluke network testing with hard copy result vi. Shall include conduit, hanger, bracket, cable manager and support peripherals. vii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years. ▪ RackG9round Floor to IDF Racks 9th Floor <ul style="list-style-type: none"> i. Shall supply and install 8 nodes to 9th floor room ii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified iii. Shall include appropriate installation and termination iv. Shall include harnessing and appropriate tagging v. Shall include fluke network testing with hard copy result vi. Shall include conduit, hanger, bracket, cable manager and support peripherals. vii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years. ▪ MDF Rack Ground Floor to RADOME <ul style="list-style-type: none"> i. Shall supply and install 2 nodes to RADOME. ii. Shall provide cat6 UTP cables, ANSI/TIA/EIA-568B.2 certified iii. Shall include appropriate installation and termination iv. Shall include harnessing and appropriate tagging v. Shall include fluke network testing with hard copy result vi. Shall include conduit, hanger, bracket, cable manager and support peripherals. vii. End-to-end cabling based on ISO/IEC 11801.Cable Warranty period 5 years. ▪ IPVPN and I-Gate ▪ IPVPN -MPLS Layer 3 Platform <ul style="list-style-type: none"> i. The Service Provider shall provide a connectivity solution that is IP-based for the mentioned PAGASA clients ii. The Type of Access – Fixed Bandwidth CIR 10 Mbps. iii. The connectivity solution must be capable of handling both voice and data transmission, with adjustable quality of service capabilities for type of traffic prioritization. iv. The sites must have the ability to communicate with any and all other sites directly for both voice and data. The Service Provider shall be responsible for ensuring the proper routing for all communications to the proper sites. v. The Service Provider shall provide managed network administration services including but not limited to the 	
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	<p>following: - Status monitoring, additional VLAN activation if necessary - editing of routes - IP address allocation - traffic report generation - basic troubleshooting - stopping/starting/restarting of network equipment - password resetting if needed.</p> <p>vi. The proposed connectivity must be compatible, interoperable with the existing network infrastructure of PAGASA with minimal configuration needed during the implementation.</p> <p>vii. The Service Provider shall provide as part of their proposal a diagram which will show how the location sites will be connected. The diagram shall clearly reflect specific type of connectivity technology.</p> <p>viii. The Service Provider shall follow the required line speeds for PAGASA.</p> <p>ix. The Service Provider must have a single point of contact for all the components including the IPVPN network links.</p> <p>x. The Service Provider must conduct testing of the proposed active components, it must be compatible and interoperable with the existing IPVPN infrastructure of PAGASA.</p> <p>xi. The Service Provider shall complete the installation and BER, IPERF tests, etc., within 45-calendar days from the date that the Notice to Proceed is received.</p> <p>xii. The Service Provider must be responsible for the connectivity and the needed equipment and other active components needed for the said IPVPN network connection</p> <p>xiii. The Service Provider shall operate, maintain and manage the connectivity for the given PAGASA sites during the period of the contract.</p> <p>xiv. In any event that single or multiple offices have technical issue on the connectivity, this shall not affect the rest of the offices and the remaining sites shall remain connected.</p> <p>xv. The Service Provider must be responsible for all restoration.</p> <p>xvi. Must have a Network Operation Center (NOC) capable of providing 24 hours x 7 days a week network management and support.</p> <p>xvii. The Service Provider must already have an established nodes and backbone near the site area.</p> <p>xviii. The Service Provider must already be providing quality IPVPN service in the area.</p> <p>xix. Service node must already be readily available in the Hinatuan Radar area as of the moment.</p> <p>▪ <i>Internet services</i></p> <ul style="list-style-type: none"> ● The Internet Service Provider must provide a dedicated, high-speed, diverse, reliable and managed connectivity to the Internet and guaranteed Internet bandwidth ● The Type of Access – Fixed Bandwidth: 50 Mbps. <ul style="list-style-type: none"> i. The Internet Service Provider must certify that the cable facility being used in the last mile connectivity is exclusively owned and operated by the Internet Service Provider. ii. The Internet Service Provider must provide a certification that it uses its own domestic nationwide network and operates its own landing stations, at least 3 cable landing stations facility. iii. The Internet Service Provider must provide a certification that they are connected or subscribed to Tier 1 networks. <p>iv. The Internet Service Provider has more than 10 Terabit per</p>	
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	<p>second (Tbps) combined International IP and Domestic Caching capacities.</p> <ul style="list-style-type: none"> v. The Internet Service Provider must have more than 30 peering connection to global Internet Service Providers and Content Providers through a commercial and bilateral peering arrangement. vi. The Internet Service Provider must have more than 15 peering Interconnection to global and domestic Internet Exchanges. vii. The Internet Service Provider must have five International Internet Points of Presence (POPs) and using more than 10 Submarine Cable Systems to connect to its international nodes. viii. The Internet Service Provider must be in top 300 global ranking based on the latest (August 2020) CAIDA AS rankings. The Internet Service Provider must be peered with at least five (5) Global Internet Service Providers that are included in the top 10 of the latest CAIDA AS rankings ix. The Internet Service Provider must provide a certification that its network platform is compliant to the latest MEF Carrier Ethernet (2.0) in all Ethernet Service Types. x. The Internet Service Provider can deliver a Dedicated Internet Access service inside a Data Center with ANSI/TIA-942 Rated 3 Facilities Certification. xi. The Internet Service Provider must have at least 3 Cisco Certified Internetworking Expert, 10 MEF Carrier Ethernet Certified Professional 2.0 and 3 certified Project Management Professional (PMP) technical support personnel. xii. The Internet Service Provider must support IPV6, or its network platform is IPV6 ready and compliant. The Service Provider must be responsible for all restoration. xiii. Must have a Network Operation Center (NOC) capable of providing 24 hours x 7 days a week network management and support. xiv. The Service Provider must already have an established nodes and backbone near the site area. xv. The Service Provider must already be providing quality IPVPN service in the area. xvi. Service node must already be readily available in Hinatuan area as of the moment. <ul style="list-style-type: none"> ▪ Desktop and printer ▪ Desktop <ul style="list-style-type: none"> i. Min of 13th Gen Intel Core i5 ii. Min of 10 Cores iii. Min of 8GB (2x4GB) RAM, DDR4 iv. Min of 1TB SATA HDD + 256GB PCIe NVMe M.2 SSD. v. Min of Intel UHD Graphics vi. Internal Speaker vii. Lan Gigabit Ethernet 10/100/1000 viii. I/O Ports: 3xUSB 3.0, HDMI-out, HDMI-in, 3-in-1 card reader (SD, SDHC, SDXC) ix. Audio/ microphone jack x. Display at least 23" LED Monitor xi. Operating System Windows 11 Home xii. Latest Licensed MS office (Word, Excel, PowerPoint, Etc.) xiii. Wired Keyboard and Mouse ▪ PRINTER (All-in-One Printer) <ul style="list-style-type: none"> i. Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color 	
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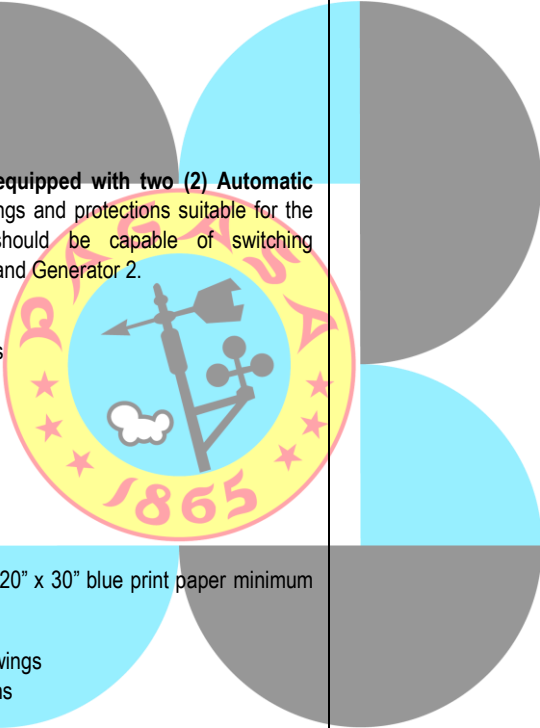
	<ul style="list-style-type: none"> ii. Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology iii. Ink Technology: Dye Ink iv. Printing Resolution: 5,760 x 1,440 DPI v. Category: Home, Home Office vi. All-in-One Functions: Print, Scan, Copy <ul style="list-style-type: none"> ▪ <i>Print</i> <ul style="list-style-type: none"> i. Printing Speed ISO/IEC 24734: 10 pages/min Monochrome, 5 pages/min Colour, 69 Seconds per 10 x 15 cm photo ii. Printing Speed: 15 pages/min Colour (plain paper 75 g/m²), 33 pages/min Monochrome (plain paper 75 g/m²), 27 Seconds per 10 x 15 cm photo (Epson Premium Glossy Photo Paper) iii. Colours: Black, Cyan, Yellow, Magenta ▪ <i>Scan</i> <ul style="list-style-type: none"> i. Single-sided scan speed (A4 black): 200 DPI; 11 sec. with flatbed scan ii. Single-sided scan speed (A4 colour): 200 DPI; , 32 sec. with flatbed scan iii. Output formats: BMP, JPEG, PICT, TIFF, multi-TIFF, PDF, PNG iv. Scanner type: Contact image sensor (CIS) v. Optical Resolution: 600 DPI x 1,200 DPI (Horizontal x Vertical) ▪ <i>Paper / media handling</i> <ul style="list-style-type: none"> i. Number of paper trays: 1 ii. Paper Formats: C6 (Envelope), B5 (17.6x25.7 cm), A6 (10.5x14.8 cm), A5 (14.8x21.0 cm), A4 (21.0x29.7 cm), Legal, User defined, 13 x 18 cm, 10 x 15 cm, Letter, No. 10 (Envelope), DL (Envelope), 16:9 iii. Duplex: Manual iv. Output Tray Capacity: 30 Sheets v. multifunction: 100 Sheets Standard vi. Compatible Paper Weight: 64 g/m² - 300 g/m² vii. Media Handling: Borderless print (up to 10 x 15cm) ▪ <i>General</i> <ul style="list-style-type: none"> i. Number of paper trays: 1 ii. Paper Formats: C6 (Envelope), B5 (17.6x25.7 cm), A6 (10.5x14.8 cm), A5 (14.8x21.0 cm), A4 (21.0x29.7 cm), Legal, User defined, 13 x 18 cm, 10 x 15 cm, Letter, No. 10 (Envelope), DL (Envelope), 16:9 iii. Duplex: Manual iv. Output Tray Capacity: 30 Sheets v. multifunction: 100 Sheets Standard vi. Compatible Paper Weight: 64 g/m² - 300 g/m² vii. Media Handling: Borderless print (up to 10 x 15cm) viii. Interface: USB 2.0 ix. Compatible Operating System: Window 10,11, Mac OS X, and Linux. ▪ <i>Basic VOIP Phone</i> <ul style="list-style-type: none"> i. 1000 local phonebook, caller ID, call hold, call transfer ii. 128x48 dot-matrix display or higher iii. HD audio on speakerphone and handset 	
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	<ul style="list-style-type: none"> iv. Support EHS wireless headset v. Dual fast ports, integrated PoE vi. Network time synchronization vii. Call logs at least 500 or higher viii. Can save contacts at least 100 or higher and phonebook at least 500 or higher ix. With volume control keys for microphone such as up, down, and mute x. Stand with 2 adjustable angles of 45 and 50 degrees xi. Compatible with major platforms: Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, Avaya, etc. xii. Supports 6-party local conference xiii. Dual 10/100/1000 Mbps network ports, integrated PoE xiv. Supported Protocols: SIP2.0 over UDP/TCP/TLS, RTP/RTCP/SRTP, STUN, DHCP, LLDP, PPPoE, 802.1x, L2TP, OpenVPN, SNTP/NTP, FTP/TFTP, HTTP/HTTPS, TR-069, AES128 & AES256 5.6.1.15. Physical xv. Specifications: With LCD and backlight, two (2) RJ9 ports for handset and headset, two (2) RJ45 ports for network and computer, removable handset, compatible with CAT6 cable, DC power input is at least 45 5V/0.6A, power consumption: idle – less than 1.65W; peak – less than 2.95W; IP67 protection level; color is black or dark gray xvi. Installation: desktop stand and can be wall-mounted with free bracket xvii. Dimension 169x187x184mm xviii. Must be capable to register and connect in PAGASA exiting IP PBX. xix. With License <ul style="list-style-type: none"> ▪ Service level agreement and warranty ▪ Years Warranty in All Active Components 	
4	Design and Build of Site Development, Construction of Radar Tower/Synoptic Station Building, Powerhouse, Public C.R./Guardhouse, Perimeter Fence, and Access Road	
4.1	<p>♦ Design Phase</p> <ul style="list-style-type: none"> ○ Submission of Geotechnical Investigation (Soil Boring Test Report) ○ Submission of Topographic and boundary Survey Report ○ Submission of Health and Safety Program ○ Architectural Design <ul style="list-style-type: none"> ● The building should be designed with structural, electrical, mechanical, fire protection, natural or combine ventilation following parking design standards. ● The winning bidder shall prepare the preliminary and detailed Architectural Plans in accordance with the requirements of the National Building Code of the Philippines, Accessibility Law (BP 344) including all other applicable laws and local ordinances. ● SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size): <ul style="list-style-type: none"> ▪ Site Development Plan. ▪ Embankment of sites for Radar Tower, powerhouse, Synoptic Building, Guardhouse and Public C.R. ▪ Stone Masonry wall for embankment protection ▪ Concrete Perimeter Fence (Including perimeter lighting) ▪ Concrete Retaining Wall for Embankment Protection ▪ Paver Blocks Laying ▪ Landscaping Works ▪ Concreting of access road 	

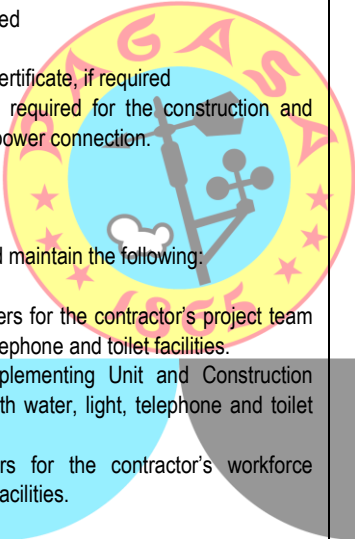
	<ul style="list-style-type: none"> ▪ Concreting of concrete pathwalk for all structures. i. Vicinity Map ii. Perspective iii. Floor Plans iv. Elevation Plans <ol style="list-style-type: none"> 1. The Front Elevation 2. Rear Elevation 3. Right Elevation 4. Left Elevation v. Longitudinal Section vi. Cross Section vii. Doors and Windows Schedule viii. Plans and Details of Stairs and Ramps ix. Reflected Ceiling Plan x. Schedule of Finishes for floors, walls and ceiling xi. AUTOCAD file of Architectural Drawings xii. Other necessary plans to complete the architectural plans <p>○ Structural Design</p> <ul style="list-style-type: none"> • The proponent shall prepare the necessary structural analysis/calculation and design of the structural members of the building component in accordance with the National Building Code of the Philippines with its referral codes such as the latest National Structural Code of the Philippines. The design for the structure shall take into account, among other things, the seismic of (> magnitude of 7.4) and wind requirements of (100 m/s.) of the area to determine the optimum safety of the whole structure and to minimize possible earthquake and typhoon induced damage. • On the basis of the data obtained from the detailed site investigations, topographical/soil and survey, geotechnical engineering, foundation investigation, material testing, survey of existing site conditions, the seismic requirements of the area, the load requirements of the building and other investigation required to obtain the data necessary to ensure the safety of the structure, the proponent shall prepare the preliminary structural design plans of the structure. • The Structures shall be design considering the maximum earthquake and maximum wind speed with respect to its location. • SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size): • <i>Structural Design Calculations (Using Latest Structural Design Software)</i> <ul style="list-style-type: none"> ▪ AUTOCAD file of Structural Drawings ▪ Criteria and Design Notes ▪ Foundation Plans ▪ Floor framing plans ▪ Schedule of slab, beams and girders ▪ Schedule of columns ▪ Schedule of footings ▪ Structural details of stairs/ramp, if applicable ▪ Structural details of retaining wall, if applicable ▪ Structural details of stone masonry wall, if applicable ▪ Riprap, if applicable ▪ Roof framing plan ▪ Schedule and details of trusses if applicable ▪ Perforated Stainless steel wind breaker for windows and main entrance door. ▪ Structural Analysis and Design Calculations signed by a Structural 	
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	<p>Engineer member of PICE and ASEP</p> <ul style="list-style-type: none"> ○ Sanitary/Plumbing Design <ul style="list-style-type: none"> ▪ General <ul style="list-style-type: none"> i. The detailed design shall conform to the general standards adopted by the Sanitary & Plumbing Code of the Philippines and other pertinent laws and ordinances. ii. All design considerations/assumptions shall be based on the results of the technical studies, detailed analyses, and design computations. iii. The technical drawings and specifications shall clearly indicate all the details required to ascertain the care and thoroughness devoted in the preparation of the drawings. ▪ Drainage and Sewerage <ul style="list-style-type: none"> i. Drainage and sewerage shall be underground. ii. The drainage layout shall show all the required information such as direction of flow, manhole-to-manhole distances, and sizes of lines, manholes/canals, location of outfalls, etc. iii. SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size): <ul style="list-style-type: none"> 1. General Notes 2. Legend and Symbols 3. Sewer, vent and storm drainage layout 4. Enlarge toilet plan for common and PWD toilets 5. Isometric Diagram 6. Miscellaneous details 7. Drainage System 8. Septic Tank plans and detail (three chamber) 9. Drain Field details 10. Cistern Tank 11. AUTOCAD file of Sanitary/Plumbing Drawings ▪ Water Supply and Distribution System <ul style="list-style-type: none"> i. The winning bidder shall carry out a preliminary and detailed design for the water supply of the project. The design should be on the basis of the source and volume of water supply, water consumption (domestic & fire protection system), piping network, and conveyance in accordance with the applicable laws, rules and regulations governing health, safety and sanitation. ii. Water supply will be sourced from the existing water concessionaire at the area. iii. SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size): <ul style="list-style-type: none"> 1. General Notes 2. Legend and Symbols 3. Water Line layout 4. Water Line Isometric Diagram 5. Water Tank plans and details 6. Cistern tank plans and details 7. Miscellaneous details 8. AUTOCAD file of water supply and distribution system Drawings ○ Electrical Design 	
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	<ul style="list-style-type: none"> ▪ The winning bidder shall prepare a preliminary and detailed design plan for the electrical and power supply system of the building in accordance with the Electrical Code of the Philippines, Fire Code of the Philippines, National Building Code of the Philippines and other relevant laws and ordinances ▪ The winning bidder shall prepare a design for the electrical and power supply system and telephone system considering ease of maintenance and prevention of illegal connections. <p>i. The building's power supply shall be 220V, single-phase, 2 wires + ground, 60Hz, with the following components:</p> <ol style="list-style-type: none"> 1. Distribution transformer 2. Metering and accessories 3. Lightning Protection and Surge Arrester for transmission lines <p>ii. The electrical supply must be equipped with two (2) isolation transformers at the specified locations to provide surge protection and mitigate power surges.</p> <ol style="list-style-type: none"> 1. Load side of the indoor main Enclosed Circuit Breaker 2. Load side of the branch circuit intended for Radar (DPR circuit no. 1) <p>iii. The electrical supply must be equipped with a voltage stabilizer w/ external maintenance bypass switch to produce high-quality, stable electric power supply in the event of significant and continuous deviation of mains voltage.</p> <ol style="list-style-type: none"> 1. Voltage Stabilizer – 220VAC, 60Hz, Servo-type with a +20% input voltage range. <p>iv. All panel boards shall be housed in a gray powder-coated, bolt-on gauge 16 NEMA enclosure, equipped with a grounding busbar, grounding jumpers bonded to the busbar for the covers, and a hinged dead front for added safety.</p> <p>v. The building must be equipped with Transient Voltage Surge Suppressors (TVSS) that meet the following specifications: (1) sized according to IEEE STD C62.41-1991 and IEEE STD C62.45-1992, (2) UL listed and labeled under 1449-3 with a suppressed voltage rating of 1000V peak, (3) equipped with indicator lamps and Form C dry contacts for monitoring all modes, including N-E, and (4) a minimum 3-year warranty covering all parts of the unit. These TVSS units should be installed at the following locations:</p> <ol style="list-style-type: none"> 1. Line side of service entrance. 2. Line side of the main ECB in EE room. 3. Line side of the MCB in Distribution Panels (MDP, DP1, DP2, DPR & DPUPS) 4. Line side of the input ECB for UPS. <p>vi. The grounding, lightning and surge protection systems must comply with the latest standards and best practices. All electrical and IT equipment, radar system, grounding busbars, steel cabinets and similar components shall be properly connected to the building's grounding system. The grounding system must be bonded or welded underground, ensuring a resistance of less than 1 ohm.</p> <ol style="list-style-type: none"> 1. All earth pits must conform to IS 3043 with latest amendments. 2. Maintain a minimum distance of 3 meters between ground electrodes. 3. Install a ground ring with earth test terminal boxes at regular intervals. 	
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	<p>4. Provide an adequate number of earth strips with proper sized holes for extending grounding and looping earth connections in various offices, executed as required.</p> <p>vii. Emergency lights must be installed throughout the building and associated areas to activate automatically during a power failure. The emergency lights should meet the following criteria:</p> <ol style="list-style-type: none"> 1. Include a built-in battery and battery charging system. 2. Deliver adequate illumination with sufficient LUX levels for designated areas. 3. Use LED technology for efficient lighting. <p>viii. The building must be equipped with two (2) standby Diesel Electric Generator sets enough to sustain power to the building, communication equipment, and meteorological equipment therein. The design should include the following components:</p> <ol style="list-style-type: none"> 1. Radiator Duct system 2. Exhaust System extensions 3. Day Tank Fuel system 4. Vibration Isolation pads <p>ix. The generator system must be equipped with two (2) Automatic Transfer Switches (ATS) with ratings and protections suitable for the generator capacity. The ATS should be capable of switching automatically between Generator 1 and Generator 2. <i>The design should include:</i></p> <ol style="list-style-type: none"> 1. Over and Under voltage sensors 2. Adjustable time delays 3. Auxiliary contacts 4. Manual operation handles 5. Basic indicator panel 6. Test/exercise/override buttons 7. Grounding busbar & jumpers <p>x. SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size):</p> <ol style="list-style-type: none"> 1. AUTOCAD file of Electrical Drawings 2. General Notes and Specifications 3. Legend and Symbols 4. Power Riser Diagram 5. Power Layout System 6. Lighting Layout System 7. Load Schedule 8. Short Circuit Analysis 9. Voltage Drop Calculation 10. Time-current coordination (TCC) analysis 11. Lightning, Surge Protection and Grounding System 12. Fire Detection Alarm and Suppression System (FDAS) 13. Automatic fire suppression system 14. Smoke control system 15. Local Area Network System 16. CCTV System 17. Fire Exit Emergency Plan and Signages 18. Others as applicable <p>○ Mechanical Design</p> <p>i. The winning bidder shall prepare a preliminary and detailed design plan</p>	
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	<p>for the mechanical equipment's, fire protection system and Air-conditioning System based on requirements of the projects in conformity with Mechanical Code of the Philippines, Fire Code of the Philippines, National Building Code of the Philippines and other relevant Laws and Ordinances.</p> <p>ii. SUBMITTALS (at suitable scale on 20" x 30" blue print paper minimum size):</p> <ol style="list-style-type: none"> 1. General Notes 2. Legend and Symbols 3. Fire Protection System plans and layout 4. Air-conditioning System schedule and ventilation layout 5. Air-conditioning Unit design according to space and loading requirements with redundancy unit (Radar Control Room) 6. Other mechanical equipment's layout and details to conform with the requirement of the project 7. Technical Specifications 8. Structural Design Analysis and Computation 9. AUTOCAD file of mechanical Drawings <p>○ <i>Cost Estimates and Quantity Calculations</i></p> <ul style="list-style-type: none"> ▪ The winning bidder shall submit the quantities of the different types of works to be carried out. In particular, the quantities of each work item shall be calculated and a bill of quantities shall be prepared to be supported with detailed cost estimates based on the scope of work as defined under this Bid Documents which shall follow DPWH standard format, to include: <ol style="list-style-type: none"> i. Architectural & Engineering Design (Structural, Electrical, FDAS, Automatic fire suppression system, smoke control system, Mechanical, Sanitary/Plumbing, ICT Design) Professional Services fees. ii. BOQ for the Construction of radar tower/synoptic station building, Powerhouse, Public C.R/Guardhouse, Access Road, Perimeter Fence and Flagpole, Parking, Instrument Garden landscaping and station grounds shall include: <ol style="list-style-type: none"> 1. General Requirements such as Temporary Facilities, Mobilization and Demobilization etc. 2. Health and Safety Requirements 3. Cost of materials (cost of sources, transport, handling, storage, miscellaneous expenses and allowances for wastage); 4. Cost of construction plant and equipment, including depreciation or rental rates, wages of operators, fuel, oil lubricants and maintenance; 5. Cost of labor, including salaries, wages, cost of living allowance and all fringe benefits. 6. All other incidental expenses necessary for the construction of the project 7. Indirect Costs 8. Overheads 9. Contingencies 10. Miscellaneous 11. Profit 12. All applicable taxes 13. Note: The preparation of Detailed Cost Estimates shall conform with the DPWH D.O. No 197 Series of 2016, DPWH D.O. No 137 Series of 2017 and DPWH D.O. No 143 Series of 2017 <p>○ Contract Documentation</p>	
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	<ul style="list-style-type: none"> ▪ The winning bidder, hereinafter referred to as the contractor shall, upon receipt of the Notice of Award (NOA); <ul style="list-style-type: none"> i. Post a contract performance security. ii. Secure a Contractor's All Risk Insurance (CAR) covering 100% of the infrastructure cost, from the GSIS General Insurance Fund or any private bonding corporation acceptable to PAGASA and maintains such insurance coverage up to the date of the Final Acceptance of the project. Such insurance shall be submitted to PAGASA together with the Official Receipt of Payment of premium evidencing enforceability. iii. Construction Schedule (PERT/CPM, Gantt Chart and S-Curve) including Architectural and Engineering Design Plans submission shall not exceed 60 calendar days. iv. Other requirements that may be required. ♦ Construction Implementation Phase <ul style="list-style-type: none"> ○ <i>Permits and Clearances</i> <ul style="list-style-type: none"> ▪ The winning bidder shall upon authorization of the Implementing Unit, make representations with the government agencies concerned to expedite the processing of the necessary permits and certificates such as the following: <ul style="list-style-type: none"> i. Building/Electrical/Sanitary Permits ii. Tree cutting permit, if required iii. Occupancy permit iv. Environmental Clearance Certificate, if required <p>All other permits/clearances as may be required for the construction and application for commercial power connection.</p> <ul style="list-style-type: none"> ○ <i>Temporary Structures & Facilities</i> <ul style="list-style-type: none"> ▪ The winning bidder shall provide and maintain the following: <ul style="list-style-type: none"> i. Temporary office and/or quarters for the contractor's project team personnel with water, light, telephone and toilet facilities. ii. Temporary office for the Implementing Unit and Construction Management project team with water, light, telephone and toilet facilities. iii. Temporary bunkhouse/quarters for the contractor's workforce complete with toilet and bath facilities. ○ <i>Mobilization</i> <ul style="list-style-type: none"> ▪ The winning bidder shall mobilize all the required project team personnel, equipment, tools, and manpower with the required skills and in sufficient number as may be necessary for his efficient undertaking of the project. ○ <i>Material Testing</i> <ul style="list-style-type: none"> ▪ All material testing shall be conducted by the DPWH accredited testing laboratories. ○ <i>As-built plans</i> <ul style="list-style-type: none"> ▪ The contractor shall cause the preparation and submission of as-built plans duly signed and sealed by all concerned parties involved in the construction in the same sheet size and scale as the original drawings in two (2) blueprint copy, one (1) tracing paper copy and one (1) reproducible copy (Autocad File Copy). 	
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	<ul style="list-style-type: none"> ○ <i>Workmanship</i> ▪ All the works shall be of the highest quality of the Engineering practice and in accordance with the provisions of the National Building Code and all existing code, laws and city rules and regulations. Any defects found or imperfection observed as a result of poor workmanship shall be corrected by the Contractor without any additional cost to PAGASA. ○ <i>Health and Safety</i> ▪ The winning bidder shall be responsible for obtaining the required approvals from the Bureau of Working Conditions, DOLE. ▪ The winning bidder shall provide sufficient number of the following items to ensure the safety and welfare of the its employees, PAGASA personnel and the public during the execution of the work. <ul style="list-style-type: none"> i. Submission of the DOLE approved health and safety program; ii. Risk assessment; iii. PPE of all workers; iv. Safety warning signs; v. Barricades, bollards and caution tapes; vi. Safety Engineer/Officer; vii. Steel plates; viii. Board up system; ix. Warning lights (blinkers and light ropes) x. Other safety equipment necessary to execute the work safely; xi. Shoring for trench excavation required. ▪ All standard safety measures and precautions shall be exercised by the winning bidder in the course of the project for the protection of the public and its workers. ▪ The winning bidder shall secure their own equipment and materials on site. PAGASA shall not be liable to any losses incurred during the progress of the work. ○ See scope of works for other details of the project ○ See conceptual plans for specifications of items. ○ Specifications shall conform with DPWH Standard Specifications for Public Work Structures Volume III 2019 (minimum requirement) 	
5	<p>Supply, delivery, installation, testing, and commissioning of basic meteorological instruments including accessories.</p> <p>All specifications must follow the WMO standard.</p>	
5.1	<p>Thermograph</p> <ul style="list-style-type: none"> ● Drum Rotation: 7-days or 1-day – exchange by gears ● Sensor: Bi-metal ● Measuring Range: -25°min. to 55°C max. at medium temp. ± 0.5°C, at temp. below zero and above 50°C ● Accuracy: ±0.2°C in medium temperature or better ● Recording Pen: Cartridge Pen 	

5.2	Minimum Thermometer <ul style="list-style-type: none"> ● Alcohol filled thermometer ● Range: -30°C min. to 50°C max. 	
5.3	Aspiration Psychrometer <ul style="list-style-type: none"> ● Measuring Range: 0° to 50°C or better ● Mercury free ● Accuracy: ±0.2° 	
5.4	Barograph Quartz Type <ul style="list-style-type: none"> ● Measuring Range: 955to 1030 hPa or better ● Accuracy: ±1 hPa or better ● Drum Rotation: 7-days or better ● Recording Pen: Fiber/metal pen 	
5.5	Wind speed and direction sensor with digital indicator and alarm <ul style="list-style-type: none"> ● Range: ● Wind speed: 0, 2 to 90 m/s, ±0.5 m/s or better ● Wind direction: 0° to 359° ● Four (4) Channel Display: ● Output modes: ● Speed: Inst./2-min./10-min. ● Direction: Inst./2-min./10-min. ● Alarm: 3-levels or better ● With 1-unit of uninterruptible power supply (UPS) 	
5.6	Tipping bucket rain gauge with digital translator/indicator and alarm <ul style="list-style-type: none"> ● Dimensions: ● 200mm Ø to 220mm Ø x 450 mm(H) or better ● Contact: Reed switch ● Accuracy: ±0.5mm or better ● Alarm output: ● 10 min. / 1-hour / Day / Cumulative ● With 1-unit of uninterruptible power supply (UPS) 	
5.7	8" Standard Rain gauge <ul style="list-style-type: none"> ● Overflow can/Outer tube: ● Made of G.I gauge #18 ● 8-inches inside diameter maximum capacity of the overflow can is 20 inches ● Coated with epoxy primer with catalyst and finished by silver aluminum paint with 3 coatings by machine spray gun ● Collection funnel: ● slope of the funnel is sufficiently steep at 45°. ● The rim should have sharp edge ● Measuring cylinder/Inner tube: ● Made of stainless gauge 1/8 inch ● Inside diameter 2.5 inches, 20 inches tall ● The one side should be closed and flat at the base. ● Material should not rust or corrode with water. ● Measuring stick: ● Thickness: 1/8-inch, Width: 5/8-inch, Length: 30 inches ● Engraved graduation scale marked every 0.20mm ● Made of hard wood/narra wood, does not absorb water ● Made of 1/8 X 1 ½ inches steel flat bar, height: 16" to support the overflow can plus 6" footings with levelling nuts and washers ● Should be treated with super rust remover and rust transformer with epoxy primer with catalyst and painted with QDE color black with 3 coatings ● Total height of the overflow can include collector funnel: 70 cm tall 	

6	Installation of communication link (lease-line) from Hinatuan radar site to PAGASA Central office with 1-year subscription.																																		
7	<p>General Notes</p> <ul style="list-style-type: none"> • Principal Classification Design and Building Contractor: ○ Design and build contractor shall present the following requirements: <ul style="list-style-type: none"> ➢ General Building with minimum category of "B" ➢ PCAB must be valid at the time of the proposal submission until the awarding. Should the said license expire prior or while construction is ongoing, the winning bidder must renew it accordingly and furnish documentary proof of its renewal and/or extension. Submit proof (Valid PCAB License/Renewal extension and/or proof of payment for renewal, Mayor's permit). ➢ Must have on its roster of employees registered PRC license and proof of membership on their respective Accredited Professional Organization (APO) of the following professionals; ➢ Design Phase <table border="1" data-bbox="386 880 933 1556"> <thead> <tr> <th>Key Personnel</th><th>Years of Relevant Experience (minimum)</th><th>Type of Construction</th></tr> </thead> <tbody> <tr> <td>Architect</td><td>15</td><td>General Building Construction</td></tr> <tr> <td>Civil/Structural Engineer – PICE and ASEP member</td><td>15</td><td>General Building Construction</td></tr> <tr> <td>Professional Electrical Engineer</td><td>15</td><td>General Building Construction</td></tr> <tr> <td>Professional Mechanical Engineer</td><td>15</td><td>General Building Construction</td></tr> <tr> <td>Sanitary Engineer</td><td>8</td><td>General Building Construction</td></tr> <tr> <td>Professional Electronics and Communication Engineer</td><td>8</td><td>General Building Construction</td></tr> <tr> <td>Geodetic Engineer</td><td>8</td><td>General Building Construction</td></tr> <tr> <td>Autocad Operator</td><td>5</td><td>General Building Construction</td></tr> <tr> <td>Document Controller</td><td>5</td><td>General Building Construction</td></tr> <tr> <td>Project Coordinator</td><td>5</td><td>General Building Construction</td></tr> </tbody> </table> 	Key Personnel	Years of Relevant Experience (minimum)	Type of Construction	Architect	15	General Building Construction	Civil/Structural Engineer – PICE and ASEP member	15	General Building Construction	Professional Electrical Engineer	15	General Building Construction	Professional Mechanical Engineer	15	General Building Construction	Sanitary Engineer	8	General Building Construction	Professional Electronics and Communication Engineer	8	General Building Construction	Geodetic Engineer	8	General Building Construction	Autocad Operator	5	General Building Construction	Document Controller	5	General Building Construction	Project Coordinator	5	General Building Construction	
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	➢ Construction Implementation Phase																																		

Key Personnel	Years of Relevant Experience	Type of Construction
Project Manager	15	General Building Construction
Assistant Project Manager	15	General Building Construction
Project Engineer	10	General Building Construction
Architect	10	General Building Construction
Site Engineer (Civil, Electrical, ECE)	10	General Building Construction
Cost and Quantity Engineer	10	General Building Construction
QA/QC Engineer	10	General Building Construction
Materials Engineer I	10	General Building Construction
Health and Safety Engineer	10	General Building Construction
Document Controller	5	General Building Construction

*Any other deliverables must be itemized.

I hereby verify to comply with all the above requirements.

Signature over Printed Name of Authorized Representative

Name of Company/Bidder

Date

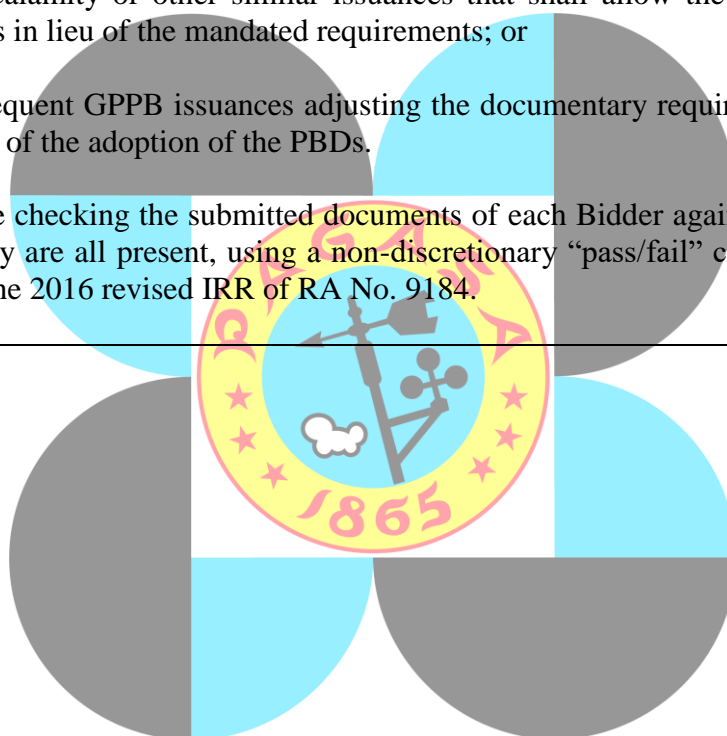
Section VIII. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.





CHECKLIST OF REQUIREMENTS

(PROCUREMENT OF GOODS and SERVICES)

Title of Project : Establishment of New Doppler Weather Radar Station in Hinatuan

Reference : PR 2024-11-0779 EPA IB 2025-21

ABC : Php245,000,000.00

Date of Evaluation :

Name of Bidder :

ENVELOPE NO.1: ELIGIBILITY AND TECHNICAL COMPONENTS

PLEASE SUBMIT THE FOLLOWING DOCUMENTS IN TRIPPLICATE COPIES, ARRANGED IN ORDER, WITH LABEL AND DULY TABBED, AND USING ONLY THE PRESCRIBED BIDDING FORMS:

I. ELIGIBILITY REQUIREMENTS	
DESCRIPTION	TAB
CLASS "A" DOCUMENTS	
LEGAL DOCUMENTS	
<input type="checkbox"/> Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;	A
TECHNICAL DOCUMENTS	
<input type="checkbox"/> Statement of all ON-GOING 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. Each statement of on-going project shall be supported by ANY ONE (1) of the following documents: <input type="checkbox"/> Copy of the Contract; or , Purchase Order (PO); or , Notice of Award (NOA); or , Notice to Proceed (NTP)	B B-1; B2; B3; ... n
<input type="checkbox"/> Statement of bidder's Single Largest Completed Contract (SLCC) similar in nature to the Contract to be bid within the period of ten (10) years , unless otherwise stated in the BDS , 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; Such statement shall be supported with complete documentary evidence, enumerated below: <input type="checkbox"/> i. Copy of the Contract or Purchase Order (PO); <input type="checkbox"/> ii. Copy of Certificate of Completion or Sales Invoice; and <input type="checkbox"/> iii. Copy of Certificate of Acceptance or Official Receipt (OR) / Collection Receipt.	C C-1 C-2 C-3
FINANCIAL DOCUMENTS	
<input type="checkbox"/> Audited Financial Statements duly stamped RECEIVED* by Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions for the Calendar Year 2024 showing, among others, the prospective bidder's total and current assets and liabilities. * First five (5) pages AND last five (5) pages only.	D
<input type="checkbox"/> Computation of Net Financial Contracting Capacity (NFCC)*; or , a committed Credit Line Certificate (CLC) issued by a Universal or Commercial Bank in lieu of its NFCC computation. * The constant NFCC's K factor is set at 15, regardless of contract duration.	E

CLASS "B" DOCUMENTS

<input type="checkbox"/>	If case of Joint Venture , a Valid and duly notarized JOINT VENTURE AGREEMENT (JVA) if the joint venture is already in existence; or , a duly notarized statement from all potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the event that the bid is successful.	F
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II. TECHNICAL REQUIREMENTS

DESCRIPTION				TAB
<input type="checkbox"/>	Bid Security – in favor of the Procuring Entity (Original Copy)			G
	FORM OF BID SECURITY		AMOUNT (Equal to Percentage of the ABC)	
	<ul style="list-style-type: none">Cash or cashier's/manager's check issued by a Universal or Commercial Bank; or,Bank Draft/Guarantee or Irrevocable Letter of Credit issued by a Universal or Commercial Bank; <i>Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank</i>		<div>2%</div> <div>4,900,000.00</div>	
	<ul style="list-style-type: none">Surety bond callable upon demand accompanied by a Certification issued by the Insurance Commission that the surety or insurance company is authorized to issue such instruments; or		<div>5%</div> <div>12,250,000.00</div>	
	<ul style="list-style-type: none">Bid Securing Declaration (GPPB Resolution No. 03-212)			
<input type="checkbox"/>	Conformity with the Technical Specifications as specified in the Terms of Reference (TOR). Prospective bidders shall submit the duly filled-up Form (PF-Goods-TAB-B) and shall be supported with the following documents:			H
<input type="checkbox"/>	Evidence in support of the Bidder's Statement of Compliance in the form of: manufacturer's un-amended literature or brochures; unconditional statements of specification and compliance issued by the manufacturer; samples; independent test data; etc., as may be appropriate.			H-1
<input type="checkbox"/>	Duly Filled-up Manufacturer's Authorization Form or Duly Authenticated Certification of Sole/Exclusive Distributorship issued by the manufacturer.			H-2
<input type="checkbox"/>	Other additional requirements, such as after-sales service/part and manpower requirements as may be required under the Terms of Reference (TOR) and/or the BDS.			H-3
<input type="checkbox"/>	Schedule of Requirements stating the complete schedule of delivery of each item/lot/project.			I
<input type="checkbox"/>	Omnibus Sworn Statement (Revised) , in accordance with Section 25.3 of the 2016 Revised IRR of R.A. 9184 and using the prescribed form.			J
<input type="checkbox"/>	Authority of the Signatory , i.e., the Secretary's Certificate, if corporation, partnership or cooperative; or , Special Power of Attorney (SPA), if sole proprietorship; or , Owner's Affidavit, if bidder is the company owner. In case of Joint Venture, Special Power of Attorney (SPA) 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.			J-1
<input type="checkbox"/>	Complete Bidding Documents for the Project (Section 1 to 6) including Annexes, Supplemental Bid Bulletin, if any.			K

REMARKS: [] PASS [] FAIL

Checked by: _____
BAC Member

ENVELOPE NO. 2: FINANCIAL COMPONENT

PLEASE SUBMIT THE FOLLOWING DOCUMENTS IN TRIPPLICATE COPIES, ARRANGED IN ORDER, WITH LABEL AND DULY TABBED, AND USING ONLY THE PRESCRIBED BIDDING FORMS:

III. FINANCIAL REQUIREMENTS		
DESCRIPTION		TAB
<input type="checkbox"/>	Original and duly signed Financial Bid Form.	A
<input type="checkbox"/>	Completely filled-up Price Schedules (Source of Goods Form) - for Goods Offered from Abroad or Within the Philippines or Both, whichever is applicable.	B
<input type="checkbox"/>	Detailed Cost Breakdown for all items/components of the Goods and/or Services described in the Schedule of Prices, including cost of all applicable taxes.	C
<input type="checkbox"/>	Duly signed Bid Prices in the Bill of Quantities	D
<input type="checkbox"/>	Scope of Works of the Project	D-1
<input type="checkbox"/>	Plans, Drawings, and Designs	D-2
<input type="checkbox"/>	Detailed Unit Price Analysis (DUPA)	E
<input type="checkbox"/>	Cash Flow by Quarter	F
<input type="checkbox"/>	Digital Copy of: <ul style="list-style-type: none"> Statement of Compliance (Section 7. Technical Component); Detailed cost breakdown; and, bill of quantities of Goods/Services being offered in Excel format; Detailed Scope of Works, Plans, Drawings, and Designs (PDF format); Detailed Cost Breakdown; Bill of Quantities, and Detailed Unit Price Analysis (DUPA) in Excel Format; Complete Bidding Document submitted (scanned in PDF Format). <p>All files saved in USB drive/flash drive. PDF files must be the exact replica of the original copy submitted.</p>	G

NOTE: Additional Instructions

- a) Each and every page of the prospective bidder's **Eligibility and Technical Components**, whether **original or certified true copy**, including the brochures and manufacturer's unamended literature shall be signed/countersigned by the Bidder or his/her duly authorized representative/s. The countersignature must appear at the **lower right portion** of each of the pages in the bidding documents submitted using **any color of pen except BLACK**. To determine the bidder's compliance to said specific requirement, the duplicate copies, *i.e.*, Copy 1 & 2, must be the exact replica of the Original Copy submitted.
- b) The notarization of any documentary requirement, if so required, shall comply with the **2004 Rules on Notarial Practice**. As such, prospective bidders or their duly authorized representative/s are required to indicate their competent evidence of identity in any document that needs notarization. The phrase "**competent evidence of identity**" shall refer to the identification of an individual based on any of the following: (i) identification documents issued by an official agency bearing the photograph and signature of the individual, *i.e.*, passport, driver's license, PRC ID, SSS ID, GSIS e-card, NBI clearance Postal ID, Voter's ID, Tax Identification Number (TIN) issued by the BIR, Barangay certification, Philhealth card, Senior Citizen's ID, OWWA ID, OFW ID, Alien Certificate of Registration/Immigration Certificate of Registration, and Government Office ID. **Community Tax Certificate or "cedula" shall not be considered as competent evidence of identity.**
- c) **Use the prescribed bidding forms** as provided in the bidding documents. For this purpose, PAGASA's prescribed bidding form shall be determined/identified as bearing a watermark of the Agency's Official Logo.
- d) All blank spaces shall be filled in with the information requested.
- e) Bidders shall complete the appropriate Price Schedules included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under this Project.
- f) Bidders shall indicate in the **Detailed Cost Breakdown** the rates and prices for all items/components of the **Goods and/or Services** described in the Schedule of Prices, including cost of all applicable taxes. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Schedule of Prices, shall be considered non-responsive and, thus, automatically disqualified. Bidders may refer to **item no. 15 (15.1 to 15.5), Instructions to Bidders** for further information on the matter.
- g) **ANY MISSING or UNSIGNED or NOT COUNTERSIGNED DOCUMENT or NON-COMPLIANCE IN THE ABOVE-MENTIONED CHECKLIST AND INSTRUCTIONS MAY BE A GROUND FOR OUTRIGHT DISQUALIFICATION USING THE NON-DISCRETIONARY "PASS/FAIL" CRITERIA.**
- h) The PAGASA reserves the right to examine and require the submission of other documents pertaining to the bidders' statement during the post evaluation stage.
- i) These additional requirements and instructions may form part of the BDS and Instructions to Bidders.

REMARKS: [] PASS [] FAIL

Checked by: _____
BAC Member

SUB-CONTRACTOR CHECKLIST OF REQUIREMENTS

(PROCUREMENT OF GOODS and SERVICES)

Title of Project : Establishment of New Doppler Weather Radar Station in Hinatuan

Reference : PR 2024-11-0779 EPA IB 2025-21

ABC : Php245,000,000.00

Date of Evaluation :

Name of Bidder :

ENVELOPE NO.1: ELIGIBILITY AND TECHNICAL COMPONENTS

PLEASE SUBMIT THE FOLLOWING DOCUMENTS IN TRIPLICATE COPIES, ARRANGED IN ORDER, WITH LABEL AND DULY TABBED, AND USING ONLY THE PRESCRIBED BIDDING FORMS:

I. TECHNICAL REQUIREMENTS		
	DESCRIPTION	TAB
<input type="checkbox"/>	Project Requirements, which shall include the following:	L
<input type="checkbox"/>	Organizational Chart for the Contract to be Bid;	L-1
<input type="checkbox"/>	List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, together with the personnel's	L-2
<input type="checkbox"/>	Curriculum Vitae or Bio-Data	L-3
<input type="checkbox"/>	Certificate of Employment	L-4
<input type="checkbox"/>	Contractor's Letter-Certificate to Procuring Entity	L-5
<input type="checkbox"/>	Individual PRC License of the (professional) personnel and Applicable Certification of Training or Accreditation attended by the Contractor's personnel issued by the accrediting government agency	L-6
<input type="checkbox"/>	Manpower Utility Schedule	L-7
<input type="checkbox"/>	List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be	L-8
<input type="checkbox"/>	Equipment Utilization Schedule	L-9
<input type="checkbox"/>	Construction Schedule and S-Curve	L-10
<input type="checkbox"/>	Digital Copy -All files saved in USB (scanned copy)	M

REMARKS: [] PASS [] FAIL

Checked by: _____

BAC Member



IMPORTANT

REMINDER

The **PAGASA** warns the Public/Bidders against unscrupulous individuals/groups who are illegally posing as **PAGASA** officials/employees or use the same of the agency for unauthorized / illegal solicitation.

**PAGASA WARNS THE
PUBLIC AGAINST
ILLEGAL
SOLICITATION**



PAGASA strictly adheres to the provisions of R.A 6713 or the “*Code of Conduct and Ethical Standards for Public Officials and Employees*”.

PAGASA DOES NOT and **WILL NOT** authorize or engage in any form of solicitation activities for any purpose.

The Public is requested to immediately report any incident of this spurious activity through the **PAGASA-CO Complaint Desk** at (02) 8284-0800 Local 1356 and **PBAC Secretariat** at (02) 8284-0800 Local 1357 or email us to the following email address:

client_complaints@pagasa.dost.gov.ph
bac@pagasa.dost.gov.ph

Republic of the Philippines



Government Procurement Policy Board