



REPUBLIC OF THE PHILIPPINES  
Department of Science and Technology  
**Philippine Atmospheric, Geophysical and  
Astronomical Services Administration (PAGASA)**

Science Garden, BIR Road, Diliman, Quezon City 1100  
[www.pagasa.dost.gov.ph](http://www.pagasa.dost.gov.ph) / [pagasa\\_bac@yahoo.com](mailto:pagasa_bac@yahoo.com)

P.R. No: 2017-11-1008  
RADIOSONDE TRANSMITTER- LOCKHEED

Reference No.: IB 2018-002  
Date: 27 January 2018

## INVITATION TO BID (IB)

FOR THE

### “Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon”

1. The Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), through the Regular Fund 101 intends to apply the sum of **Sixty Eight Million Six Hundred Ninety Seven Thousand Pesos (Php 68,697,000.00) only**, being the Approved Budget for the Contract (ABC) to payments under the contract for the “Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon”. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The PAGASA now invites bids for the “Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon” as per Project specifications indicated in the Terms of Reference (TOR) and Technical Specifications. Contract Term is **until the 1st week of February 2018** and is inclusive of all other applicable taxes. Price Validity is **one hundred (100) days**. Warranty is **one (1) year** from the date of issuance and acceptance of the Project by PAGASA.
3. Bidders should have completed, within **three (3) 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 2. Instructions to Bidders and Checklist of Eligibility Requirements.
4. Bidding will be conducted through open competitive bidding procedures using non-discretionary “pass/fail” criterion as provided in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184) otherwise known as the “Government Procurement Reform Act”.
5. Bidding is restricted to citizens/sole proprietors or organizations with at least **sixty percent (60%)** international standing capital stock owned by citizens of the Philippines and to citizens or organizations of other countries by the laws or regulations of their country grant similar rights or privileges to Filipino citizens, pursuant to RA 5163. (Sec 23.4.1.1 of the 2016 Revised IRR of R.A. 9184).
6. Interested bidders may obtain further information from **PAGASA BAC Secretariat** and inspect the Bidding Documents at the **3<sup>rd</sup> Floor, Procurement Unit, PAGASA Main Building, Science Garden Complex, BIR Road, Diliman, Quezon City**, from **9:00 a.m. to 4:00 p.m.** It may also be downloaded at the PhilGEPS Website free of charge.
7. A complete set of Bidding Documents may be purchased by interested Bidders from the above-stated address and upon payment of a nonrefundable fee for the Bidding Documents in the amount of **Fifty Thousand Pesos (Php 50,000.00) only**.
8. Request for clarification/s and/or interpretation of any part of the Bidding Documents must be in writing and addressed to the BAC Chairperson of the Procuring Entity from **14-25 February 2018**. The PAGASA BAC assumed that the bidders had already reviewed all parts of the bidding documents prior to the Pre-Bid Conference.



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9. Bids must be delivered to the address below **not later than 06 March 2018 on or before 02:00 p.m.** Late bids shall not be accepted. Bid opening shall immediately follow and will be opened in the presence of the Bidders' representatives who choose to attend. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 18**.

10. The Complete Schedule of Bidding Activities is summarized as follows:

Activities	Schedule/Time	Venue
1. Posting of Invitation to Bid / Newspaper Advertisement	14-21 February 2018 / <b>15 February 2018</b>	n/a
2. Issuance of Bidding Documents	14 February – 05 March 2018 / <b>from 9:00 a.m. to 4:00 p.m.</b>	Procurement Unit, 3/F PAGASA CO
3. Pre-bid Conference	22 February 2018 / <b>02:00 p.m.</b>	*Amihhan Conference Room, 2/F PAGASA CO
4. Submission of Envelopes 1 & 2	06 March 2018 / <b>on or before 02:00 p.m.</b>	*Amihhan Conference Room, 2/F PAGASA CO
5. Opening of Envelopes 1 & 2	06 March 2018 / <b>02:01 p.m.</b>	*Amihhan Conference Room, 2/F PAGASA CO

\* - **subject to change**

11. The bidders shall submit their duly accomplished eligibility requirement, technical and financial proposals in **envelopes, duly sealed and sealed following the instructions under It**
12. All bidders are allowed to participate in the pre-bid conference. Bidder's duly authorized representatives must show proof of their authority to participate in the bid conference, such as, duly signed authorization, notarized secretary's certificate or special power of attorney. **Only two (2) representatives per bidder shall be allowed during the pre-bid conference.**
13. Bidders shall complete appropriate Price Schedules to be provided to the bidders as part of the Bidding Documents, including unit prices, total price per item, other inclusive charges such as insurance fees, freight and applicable local and foreign taxes, the total amount and the expected countries of origin of goods to be supplied.
14. The PAGASA reserves the right to: (a) reject any and all bids prior to the award of the contract; (b) waive any minor technical requirements in the bid documents; (c) accept such bids it may consider to be advantageous and beneficial to the government; (4) declare a failure of bidding; (5) not award the contract; and (6) make no assurance that a contract shall be entered into as a result of this invitation, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

**NOEL G. RAMOS**  
Head, BAC Secretariat  
Accounting Section, 3/F PAGASA CO  
Telefax No.: 434-2658  
[pagasa\\_bac@yahoo.com](mailto:pagasa_bac@yahoo.com),  
[www.pagasa.dost.gov.ph](http://www.pagasa.dost.gov.ph)

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**Engr. CATALINO L. DAVIS**  
Chairperson  
Bids and Awards Committee



## Bid Data Sheet

ITB Clause	
<b>GENERAL</b>	
<b>1. Scope of Bids</b>	
1.1	<p>The Procuring Entity is <b>PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION (PAGASA)</b></p> <p>The name of the Contract is <b>“Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon”</b></p> <p>The identification number of the Contract is <b>IB 2018-002</b></p>
1.2	<p>The lot(s) and reference is/are:</p> <p><b>“Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon” – 1008 / IB 2018-002</b></p>
<b>2. Source of Funds</b>	
2	<p>The Funding Source is:</p> <p>The Government of the Philippines <b>Regulation 101</b> in the amount of <b>Php 68,697,000.00.</b></p> <p>The Name of the Project is: <b>“Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon”</b></p>
<b>3. Corrupt, Fraudulent, Collusive and Coercive Practices. No further instructions.</b>	
<b>4. Conflict of Interest. No further instructions.</b>	
<b>5. Eligible Bidders</b>	
5.1	No further instructions.
5.2	Foreign bidders, except those falling under ITB Clause 5.2 (b), may not participate in this Project.
5.4	No further instructions.
<b>6. Bidder’s Responsibilities</b>	
6.1	No further instructions.
6.2	The <b>“NO CONTACT”</b> rule applies only to those whose bids are being evaluated by the BAC after passing the preliminary examination until the issuance of Notice of Award. All queries shall be submitted in writing and addressed to the BAC Chairperson.
6.3	The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. <b>Failure to furnish all information or documentation required in the Bidding Documents</b>



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	<b>shall result in the rejection of the bid and the disqualification of the Bidder.</b>
<b>7. Origin of Goods</b>	
7	The preference for the origin of the goods indicated by the end-user for the Project in the Terms of Reference (TOR) / Technical Specification shall prevail.
<b>8. Subcontracts</b>	
8.1	Subcontracting is not allowed.
8.2	Not applicable.
<b>CONTENTS OF BIDDING DOCUMENTS</b>	
<b>9. Pre-Bid Conference</b>	
9.1	<p>The Procuring Entity will hold a pre-bid conference for this Project on <b>22 February 2018, 02:00 p.m.</b> at <b>Amihan Conference Room, 2/F PAGASA Central Office Building, Science Garden Complex, BIR Road, Diliman, Quezon City (Change).</b></p> <p>The terms and conditions of the Pre-bid Conference indicated above shall be subject to change for justifiable reason/s by the BAC's control.</p> <p>For an orderly and speedy discussion of bidders' questions on the technical and financial components of this project to be bid, <b>Bidders shall be required to put all their queries officially in writing to be submitted to the BAC Secretariat and addressed to the BAC Chairperson at the address indicated below:</b></p>
<b>10. Clarification and Amendment of Bidding Documents</b>	
10.1	<p>The Procuring Entity's address:</p> <p><b>PAGASA Science Garden        BIR Road Diliman,        Quezon City</b></p> <p>For further information, please refer to:  <b>NOEL G. RAMOS</b>        Head, BAC Secretariat        Telefax No. (02) 434-2658        Email address: <a href="mailto:pagasa_bac@yahoo.com">pagasa_bac@yahoo.com</a></p>
<b>PREPARATION OF BIDS</b>	
<b>11. Language of Bid. No further instructions.</b>	
<b>12. Documents Comprising the Bid: Eligibility and Technical Components</b>	
12.1	Please refer to attached Checklist of Eligibility and Technical Components.
12.1(a)	No further instructions.
12.1(a)(ii)	The bidder's SLCC similar to the contract to be bid should have been completed (within the period as provided in the Invitation to Bid) prior to



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	the deadline for the submission and receipt of bids.
<b>13. Documents Comprising the Bid: Financial Component</b>	
13.1	Please refer to attached Checklist of Eligibility and Technical Components.
13.2	The ABC is <b>Php 68,697,000.00</b> . Any bid with a financial component exceeding this amount shall not be accepted.
<b>14. Alternative Bids.</b> <i>No further instructions.</i>	
<b>15. Bid Prices</b>	
15.1&2	None compliance thereto shall be a ground for outright disqualification.
15.4(a)(i)	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), including sales and other taxes already paid or payable on the Goods, shall be based on:  (i.1) on the components and material used in the manufacture or assembly of the Goods quoted ex works or ex factory; or  (i.2) on the previously imported Goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf and on the Procuring Entity country sales and other taxes which shall be payable on the Goods if the contract is awarded.
15.4(a)(iv)	No incidental services are required.
15.4 (b)	No incidental services are required.
15.4(b)(ii)	All incidental services required under the subject shall be borne by the winning bidder.
<b>16. Bid Currencies</b>	
16.1(b)	The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Peso.
16.3	Not applicable.
<b>17. Bid Validity</b>	
17.1	Bids will be valid until <b>120 days from the date of opening of bids.</b>
<b>18. Bid Security</b>	
18.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:  1. The amount of not less than <b>Php 1,373,940.00 (2% of the ABC)</b> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or



(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)

Engr. CATALINO L. DAVIS  
Chairperson  
PAGASA BIDS AND AWARDS COMMITTEE  
(PAGASA-BAC)  
PAGASA Science Garden Complex, BIR Road, Diliman, Quezon City

DO NOT OPEN BEFORE \_\_\_\_\_  
(indicate the Date and Time of Opening of Bids)

**PAGASA Checklist of Requirements.**

	2.	
18.2	The of	
<b>19. Format and Signatures</b>		
19.1	Bidders must use the following format for their bids. The bid must be submitted in triplicate.	
19.4	The countersignature must appear at the lower right portion of each of the pages in the documents submitted in any color of pen except BLACK. The bidder's compliance to said specific requirements, i.e., Copy 1, must be the exact replica of the original submitted.	Non-compliance of this requirement may be cause for disqualification of the bidder.
<b>20. Sealing and Marking of Bids</b>		
20.1	Bidders must enclose their original eligibility and technical documents described in Clause 12 in one sealed envelope and the original of their financial statement in another sealed envelope with the following marking on each of the envelopes:	





(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)

Engr. CATALINO L. DAVIS  
Chairperson  
PAGASA BIDS AND AWARDS COMMITTEE  
(PAGASA-BAC)  
PAGASA Science Garden Complex, BIR Road, Diliman, Quezon City

DO NOT OPEN BEFORE \_\_\_\_\_  
(indicate the Date and Time of Opening of Bids)

Non-compliance on the sealing and marking of bids shall be a ground for rejection of the bidder's bid documents and disqualification.

20.3 Each Bidder shall submit **one (1) original and two (2) copies of the first and second components of its bid.**

**SUBMISSION AND OPENING OF BIDS**

**21. Deadline for Submission of Bids**

21 The deadline for submission of bids is **02:00 p.m.** on **20 March 2018** at **Amihan Conference Room, 2/F PAGASA Central Office** (subject to change).

**22. Late Bids**

The reference for the time of submission and receipt of bids shall be the PAGASA Digital Clock located at the PAGASA Main Building's corridors.

**23. Modification and Withdrawal of Bids. No further instructions.**

**24. Opening and Preliminary Examination of Bids**

24.1 The place of bid opening is:  
**Amihan Conference Room, 2/F PAGASA Central Office** (subject to change).

The date and time of bid opening is:



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	<b>06 March 2018 at 02:01 p.m.</b>
24.2	No further instructions.
24.3	No further instructions.
27.1	No further instructions.
28.3(a)	No further instructions.
28.4	No further instructions.
29.2	No additional requirement.
32.4(f)	No additional requirement.







## Special Conditions of Contract

GCC Clause	
1.1 (g)	The Procuring Entity is <b><u>PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION (PAGASA)</u></b> .
1.1 (i)	The Supplier is <i>[to be inserted at the time of contract award]</i> .
1.1 (j)	The Funding Source is  The Government of the Philippines (GOP) through <b>Fund 101</b> in the amount of <b>Sixty Eight Million Six Hundred Ninety Seven Thousand Pesos (Php 68,697,000.00) only</b> , inclusive of VAT and all applicable government taxes.
1.1 (k)	The Project sites are defined in Schedule of Requirements.
2.1	No further instructions.
5.1	The Procuring Entity's address for Notices is: <b><u>PAGASA Science Garden Complex, BIR Road, Diliman, Quezon City 1100</u></b> Contact Person:  <b>NOEL RAMOS</b> Head, BAC Secretariat Telefax No. (02) 434-2658 Email address: <b><u>pagasa_bac@yahoo.com</u></b>  The Supplier's address for Notices is: <i>[Insert address including, name of contact, fax and telephone number]</i>
6.2	<i>List here any additional requirements for the completion of this Contract. The following requirements and the corresponding provisions may be deleted, amended, or retained depending on its applicability to this Contract:</i>  <b>Delivery and Documents –</b>  For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the



International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:

*For Goods Supplied from Abroad, state “The delivery terms applicable to the Contract are DDP delivered [insert place of destination]. In accordance with INCOTERMS.”*

*For Goods Supplied from Within the Philippines, state “The delivery terms applicable to this Contract are delivered [insert place of destination]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”*

Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are as follows:

*For Goods supplied from within the Philippines:*

Upon delivery of Goods to the Procuring Entity, the Supplier shall submit to the Procuring Entity and deliver the following documents to the Procuring Entity:

- (i) Original and four copies of the supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) Original and four copies delivery receipt/note, railway receipt or truck receipt;
- (iii) Original Supplier's Certificate of Origin Report;
- (iv) Original and four copies of the manufacturer's and/or Supplier's warranty certificate;
- (v) Original and four copies of the certificate of origin (for imported Goods);
- (vi) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel;
- (vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity's representative at the Project Site; and
- (viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.

*For Goods supplied from abroad:*



Upon shipment, the Supplier shall notify the Procuring Entity and the insurance company by cable the full details of the shipment, including Contract Number, description of the Goods, quantity, vessel, bill of lading number and date, port of loading, date of shipment, port of discharge etc. Upon delivery to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents as applicable with the documentary requirements of any letter of credit issued taking precedence:

- (i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) Original and four copies of the negotiable, clean shipped on board bill of lading marked "freight pre-paid" and five copies of the non-negotiable bill of lading ;
- (iii) Original and four copies of the Supplier's factory inspection report;
- (iv) Original and four copies of the manufacturer's and/or supplier's certificate;
- (v) Original and four copies of the Certificate of Origin (for Imported Goods);
- (vi) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site;
- (vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity representative at the Project Site;
- (viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.

For purposes of this Clause the Procuring Entity's Representative at the Project Site is *[insert name(s)]*.

#### **Incidental Services –**

The Supplier is required to provide all of the following services, including additional services, if any, specified in specified in Section VI. Schedule of Requirements:

*Select appropriate requirements and delete the rest.*

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;



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

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

#### Spare Parts

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

*Select appropriate requirements and delete the rest.*

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

The spare parts required are listed Section VI. Schedule of Requirements and the cost thereof are included in the Contract Price

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods for a period of *[insert here the time period specified. If not used insert time*



*period of three times the warranty period].*

Other spare parts and components shall be supplied as promptly as possible, but in any case within *[insert appropriate time period]* months of placing the order.

#### **Packaging –**

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

The packaging and documents within and outside the packaging shall comply strictly with such special requirements expressly provided in the Contract, including additional requirements, if any, set out below, and in any subsequent instructions ordered by the Procuring Entity.

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

Name of Procuring Entity

Name of Supplier

Contract Description

Final Destination

Gross weight

Any special lifting instructions

Any special handling instructions

Any relevant HAZCHEM classifications

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

#### **Insurance –**

The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Procuring Entity.



	<p><b>Transportation –</b></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 carrier of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier of non-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 scheduled days the Supplier in its performance of this Contract the period from when the Goods are first ready for shipment and the actual date of shipment the period of delay will be considered <i>force majeure</i> in accordance with <b>GCC Clause 22</b>.</p> <p>The Procuring Entity accepts the risk of damage of Goods in transit other than as prescribed by INCOTERMS for DDP. Delivery of Goods supplied from within the Philippines by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Patent Rights –</b></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>
10.4	Not applicable.
10.5	Payment using LC is not allowed.
11.3	Maintain the GCC Clause.



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13.4 (c)	No further instructions.
16.1	Inspections and tests will be conducted.
17.3	<b>One (1) year</b> after acceptance by the Procuring Entity of the delivered Goods.
17.4	The period for correction of defects in the warranty period is <b><i>Please refer to Terms of Reference / Technical Specifications.</i></b>
21.1	All partners to the joint venture shall be jointly and severally liable to the Procuring Entity.







## 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
1	<p><b>Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon</b></p> <p><i>The winning bidder shall supply and deliver the Radiosonde Transmitters and Met Balloons on-site and in the following delivery schedules:</i></p> <p><b><u>PLACE OF DELIVERY:</u></b></p> <p><b>Name of Station</b>            PAGASA-Tanay Upper Air Station, Site, Tanay, Rizal            PAGASA-Palawan Upper Air Station, Puerto Princesa City, Palawan            PAGASA-Davao Upper Air Station, Brgy. Davao City            PAGASA-Baguio Upper Air Station, Central Office, Baguio            PAGASA-Davao Upper Air Stn., Davao City, Misamis            Other Stations            PAGASA-Tuguegarao Upper Air Station, Synoptic Station, Capitan Site, Tuguegarao City, Cagayan</p> <p>Prior to the site-delivery, however, all transmitters and balloons shall undergo the usual inspection and acceptance by the PAGASA and COA inspector at the PAGASA Central Office</p> <p><b><u>SCHEDULE OF DELIVERY:</u></b></p> <p><b><u>1st Quarter:</u></b>  <b><u>Within 30 c.d. upon Receipt of the Notice to Proceed.</u></b></p> <p>Name of Station Qty/Unit            PAGASA-Tuguegarao Upper Air Stn 136 pcs.            PAGASA-Baguio Upper Air Station 175 pcs.            PAGASA-Tanay Upper Air Station 175 pcs.</p>	1 Lot	1 Lot	



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 Department of Science and Technology  
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[www.pagasa.dost.gov.ph](http://www.pagasa.dost.gov.ph) / [pagasa\\_bac@yahoo.com](mailto:pagasa_bac@yahoo.com)

PAGASA-Palawan Upper Air Station	175 pcs.		
PAGASA-Davao Upper Air Station	175 pcs.		
PAGASA-El Salvador Upper Air Station	175 pcs.		
<b>Sub-Total</b>	<b>1,011 pcs.</b>		
<b><u>2nd Quarter:</u></b>			
<b><u>Not later than the 1st week of July 2018.</u></b>			
<b>Name of Station</b>	<b>Qty/Unit</b>		
PAGASA-Tuguegarao Upper Air Stn	135 pcs.		
PAGASA-Baguió Upper Air Station	175 pcs.		
PAGASA-Tanay Upper Air Station	175 pcs.		
PAGASA-Palawan Upper Air Station	175 pcs.		
PAGASA-Davao Upper Air Station	175 pcs.		
PAGASA-El Salvador Upper Air Station	175 pcs.		
<b>Sub-Total</b>	<b>1,010 pcs.</b>		
<b><u>3rd Quarter:</u></b>			
<b><u>Not later than the 1st week of October 2018.</u></b>			
<b>Name of Station</b>	<b>Qty/Unit</b>		
PAGASA-Tuguegarao Upper Air Station	135 pcs.		
PAGASA-Baguió Upper Air Station	175 pcs.		
PAGASA-Tanay Upper Air Station	175 pcs.		
PAGASA-Palawan Upper Air Station	175 pcs.		
PAGASA-Davao Upper Air Station	175 pcs.		
PAGASA-El Salvador Upper Air Station	175 pcs.		
<b>Sub-Total</b>	<b>1,010 pcs.</b>		
<b><u>4th Quarter:</u></b>			
<b><u>Not later than the 1st week of December 2018</u></b>			
<b>Name of Station</b>	<b>Qty/Unit</b>		
PAGASA-Tuguegarao Upper Air Stn	135 pcs.		
PAGASA-Baguió Upper Air Station	175 pcs.		
PAGASA-Tanay Upper Air Station	175 pcs.		
PAGASA-Palawan Upper Air Station	175 pcs.		
PAGASA-Davao Upper Air Station	175 pcs.		



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	<p>175 pcs.          PAGASA-El Salvador Upper Air Station          175 pcs.  <b>Sub-Total 1,010 pcs.</b></p> <p><i>Failure to deliver within the prescribed period without valid and justifiable reason shall constitute a delay on the part of the winning bidder/supplier which is a ground for the imposition of liquidated damages in accordance with Section 68 and Section 3 (Annex "D") of the Revised IRR of RA 9184.</i></p>			
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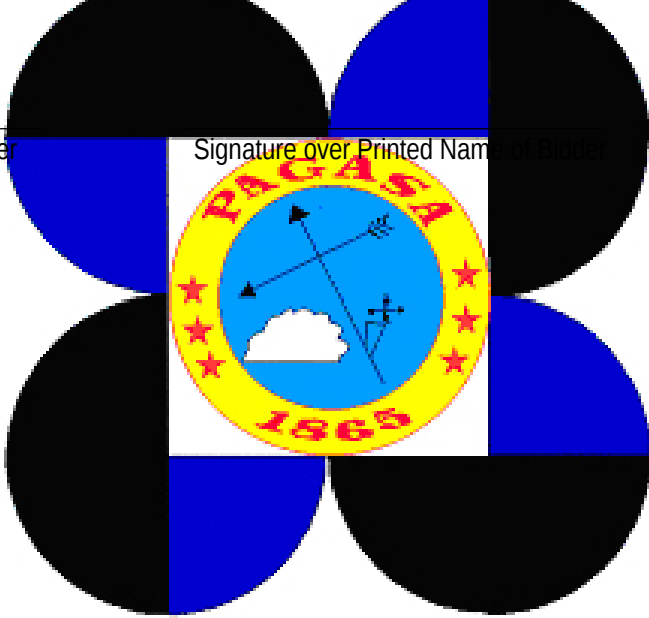
**N.B. Use extra sheet if necessary.**

I hereby certify to comply and deliver the Items **30 calendars days** upon receipt of Notice to Proceed (NTP) from the PAGASA **and based on the four (4) tranches of schedules indicated above.**

\_\_\_\_\_  
 Name of Company/Bidder

\_\_\_\_\_  
 Signature over Printed Name

\_\_\_\_\_  
 Date





### Conformity with the Technical Specifications

Item	Specifications <i>[in conformity with the Terms of Reference (TOR) for the Project]</i>	Statement of Compliance ("Comply" or "Not Comply")	Description (Indicated Clearly the Brand or Model of Goods/Services Offered)
Title	<b>Supply and Delivery of Four Thousand Forty One (4,041) Pieces Radiosonde Transmitters – Lockheed Martin Sippican – With Free Met Balloon</b>		
<b>A</b>	<p><b><u>BACKGROUND</u></b>                      Upper- air soundings complete the required weather parameters in 3 dimensions these are necessary for the purpose of weather analysis and prediction. Its importance is so great that the equipment used should be of great quality such as the transmitters and weather balloons which measures the different weather parameters up to 12,000 meters above mean sea level and send these data to the receiving stations in the country. The upper-air soundings can be used to deliver a real time data required for local-area weather forecast such as thunderstorm and rainy days-to name a few. These can be of additional help in the formulation of localized weather forecast in the newly formed five (5) PAGASA Regional Services Divisions in NCR, Northern and Southern Luzon, Visayas and Mindanao</p>		
<b>B</b>	<p><b><u>APPROVED BUDGET FOR THE CONTRACT (ABC)</u></b>                       The Approved Budget for the Contract is <b>Sixty Eight Million Six Hundred Ninety Seven Thousand Pesos (PhP68,697,000.00) Only</b> inclusive of VAT and all applicable government taxes.</p>		
<b>C</b>	<p><b><u>BID PROPOSAL CONTENTS</u></b>                       The prospective bidder is expected to comply and respond accordingly to the specific instructions to bidders and completely submit all the documentary requirements under the Checklist of Eligibility, Technical and Financial Requirements. The submission of documentary requirements must be properly arranged in order and with label. Absence or lack of any of the bidder's documentary submissions shall be a ground for outright rejection of bids.                       Furthermore, the prospective bidder is expected to respond "paragraph by paragraph" into this Terms of Reference (TOR); and, shall clearly indicate compliance to the required specifications (<i>Please see Section VII. Compliance Matrix</i>) and specify the number of days or schedules within which to complete the delivery of all the goods/services required using the prescribed bidding form. (<i>Please see Section VI. Schedule of Requirements</i>).</p>		



	<p>The prospective bidder is likewise required to include in its proposal, <b>original descriptive literatures</b> and/or <b>unamended brochures</b> of all equipment/materials to be supplied.</p> <p>These details will allow the <b>PAGASA-Bids and Awards Committee</b> to fully evaluate and determine compliance from the prospective bidders.</p>																												
<p><b>D</b></p>	<p><b><u>QUALIFICATIONS OF THE BIDDER</u></b>          (Please refer to Section II. Instructions to Bidders, the Bid Data Sheet and Checklist of Eligibility and Technical Requirements of the Bidding Documents)</p>																												
<p><b>E</b></p>	<p><b><u>TECHNICAL SPECIFICATIONS:</u></b></p> <p>The Radiosonde Transmitter <b>LOCKHEED MARTIN SIPPICAN, INC. MODEL 1848-611 403 MHZ GPS LMS6 and the free Met. Balloons</b> shall have the following minimum technical specifications:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 30%;">Unit</th> <th style="text-align: center;">Specification</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>i. RADIOSONDE TRANSMITTER SPECIFICATIONS</b></td> </tr> <tr> <td>Type:</td> <td>: Digitally Synthesized</td> </tr> <tr> <td>Frequency Range:</td> <td>: 400 to 406 MHz</td> </tr> <tr> <td>Frequency Stability, 90 percent Probability</td> <td>: In accordance with EN302054V1 1.1</td> </tr> <tr> <td>Daviation, Poak to Poak</td> <td>: 5 KHz</td> </tr> <tr> <td>Emission Bandwidth</td> <td>: In accordance with EN302043V1 1.1</td> </tr> <tr> <td>Out Put Power</td> <td>: 63 mW (nominal)</td> </tr> <tr> <td>Modulation</td> <td>: GFSK</td> </tr> <tr> <td>Data Downlink</td> <td>: 4800 Baud Digital</td> </tr> <tr> <td>Operation Selectable Frequencies</td> <td>: Sixteen (16) Nominally 125KHz Steps: Set By Switch</td> </tr> <tr> <td>Sampling Rate</td> <td>: All parameters once per second</td> </tr> <tr> <td>Power Source</td> <td>: Lithium battery pack; suitable for 130 minutes of operation</td> </tr> </tbody> </table>	Unit	Specification	<b>i. RADIOSONDE TRANSMITTER SPECIFICATIONS</b>		Type:	: Digitally Synthesized	Frequency Range:	: 400 to 406 MHz	Frequency Stability, 90 percent Probability	: In accordance with EN302054V1 1.1	Daviation, Poak to Poak	: 5 KHz	Emission Bandwidth	: In accordance with EN302043V1 1.1	Out Put Power	: 63 mW (nominal)	Modulation	: GFSK	Data Downlink	: 4800 Baud Digital	Operation Selectable Frequencies	: Sixteen (16) Nominally 125KHz Steps: Set By Switch	Sampling Rate	: All parameters once per second	Power Source	: Lithium battery pack; suitable for 130 minutes of operation		
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**ii. SENSOR CALIBRATION**

Polynomial coefficients resident in sonde EEPROM are transmitted continuously in digital data-stream.

Pressure (Derived from Differentially Corrected GPS Geometric Height Values)

Measuring Range : 1080 hPa to 3 hPa  
Accuracy : Better than 0.5 hPa (rms)  
Resolution : 0.1 hPa

**iii. TEMPERATURE SENSOR**

Type : Chip Thermistor  
Range : -90°C + 60°C  
Accuracy : 0.2°C \*  
0.3°C\* in daylight above 20 kms

Response Time (63.2%, 6 m/s)

1000 hPa : <0.75 Secs  
10 hPa : <8 Secs

Resolution: : 0.1°C

**iv. HUMIDITY SENSOR**

Type : Capacitance  
Range: : 0 to 100% RH;  
+45°C to -60°C  
Accuracy : +/-5% RH \* up to 20 hPa

Response Time:

1000 hPa, 6 m/s, +25°C : <1.5 Secs  
1000 hPa, 6 m/s, -10°C : <10 Secs  
1000 hPa, 6 m/s, -40°C : <50 Secs

Resolution: : 1% RH

**v. CODE CORRELATING GPS RECEIVER**

Number of Channels : 12







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- |                                      |  |
|--------------------------------------|--|
| 1. PAGASA-Tanay Upper Air Station    | Sitio Mayagay, Sampaloc, Tanay, Rizal                    |
| 2. PAGASA-Palawan Upper Air Station  | Puerto Princesa City, Palawan                            |
| 3. PAGASA-Davao Upper Air Station    | Brgy. Sasa, Davao City                                   |
| 4. PAGASA-Baguio Upper Air Station   | Government Center, Baguio City                           |
| 5. PAGASA-El Salvador Upper Air Stn. | El Salvador City, Misamis Oriental                       |
| 6. PAGASA-Tuguegara                  | Synoptic Station, Capitol Site, Tuguegarao City, Cagayan |

Prior to the site-delivery, however, all transmitters and balloons shall undergo the usual inspection and acceptance by the PAGASA and COA inspector at the PAGASA Central Office.

**II. SCHEDULE OF DELIVERY**

Delivery of the total 4,041 pcs. Radiosonde Transmitters shall be made in four (4) tranches following the Schedules of Delivery indicated below:

**1<sup>st</sup> tranche: Within 30 c.d. from Receipt of the Notice to Proceed (NTP).**

Name of Station	Qty/Unit
PAGASA-Tuguegarao Upper Air Station	136 pcs.
PAGASA-Baguio Upper Air Station	175 pcs.
PAGASA-Tanay Upper Air Station	175 pcs.
PAGASA-Palawan Upper Air Station	175 pcs.

**2<sup>nd</sup> tranche: 1<sup>st</sup> week of July 2018.**

Name of Station	Qty/Unit
PAGASA-Tuguegarao Upper Air Station	135 pcs.
PAGASA-Baguio Upper Air Station	175 pcs.
PAGASA-Tanay Upper Air Station	175 pcs.
PAGASA-Palawan Upper Air Station	175 pcs.
PAGASA-Davao Upper Air Station	175 pcs.
PAGASA-El Salvador Upper Air Station	175 pcs.
<b>Sub-Total</b>	<b>1,010 pcs.</b>



**3<sup>rd</sup> tranche: 1<sup>st</sup> week of October 2018**

Name of Station	Qty/Unit
PAGASA-Tuguegarao Upper Air Station	135 pcs.
PAGASA-Baguio Upper Air Station	175 pcs.
PAGASA-Tanay Upper Air Station	175 pcs.
PAGASA-Palawan Upper Air Station	175 pcs.
PAGASA-Davao Upper Air Station	175 pcs.
PAGASA-El Salvador Upper Air Station	175 pcs.

**4<sup>th</sup> tranche: 1<sup>st</sup> week of December 2018**

Name of Station	Qty/Unit
PAGASA-Tuguegarao Upper Air Station	135 pcs.
PAGASA-Baguio Upper Air Station	175 pcs.
PAGASA-Tanay Upper Air Station	175 pcs.
PAGASA-Palawan Upper Air Station	175 pcs.
PAGASA-Davao Upper Air Station	175 pcs.
PAGASA-El Salvador Upper Air Station	175 pcs.
<b>Sub-Total</b>	<b>1,010 pcs.</b>



	<p>Failure to deliver within the prescribed period without valid and justifiable reason shall constitute a delay on the part of the winning bidder/supplier which is a ground for the imposition of liquidated damages in accordance with Section 68 and Section 3 (Annex "D") of the Revised IRR of RA 9184.</p>		
<b>G</b>	<p><b><u>PAYMENT TERMS</u></b></p> <p>The winning bidder/supplier may be allowed to collect partial payments commensurate to the amount of goods/items delivered; <i>provided that</i>, said deliveries are in accordance with the schedule of requirements specified above and subject further to the complete submission of the documentary requirements prescribed under the accounting and auditing rules and regulations.</p> <p>Other pertinent accounting and auditing rules and regulations, including the terms and conditions indicated under the General and Special Conditions of the Contract governing payment terms shall likewise be observed..</p>		
<b>H</b>	<p><b><u>PERFORMANCE SECURITY</u></b></p> <p>The winning bidder/supplier shall post the required Performance Security in accordance with Section 39 of the Revised Implementing Rules and Regulations (IRR) of RA 9184. The amount of the Performance Security shall be equivalent to the total contract cost of the Project which shall be denominated in Philippine Peso and payable to PAGASA.</p>		
<b>I</b>	<p><b><u>WARRANTIES</u></b></p> <p>1. In order to assure that manufacturing defects shall be corrected by the winning bidder/supplier, a warranty security shall be required from the contract awardee for a minimum period of <b>one (1) year</b> after acceptance by PAGASA of the delivered goods/supplies.</p>		



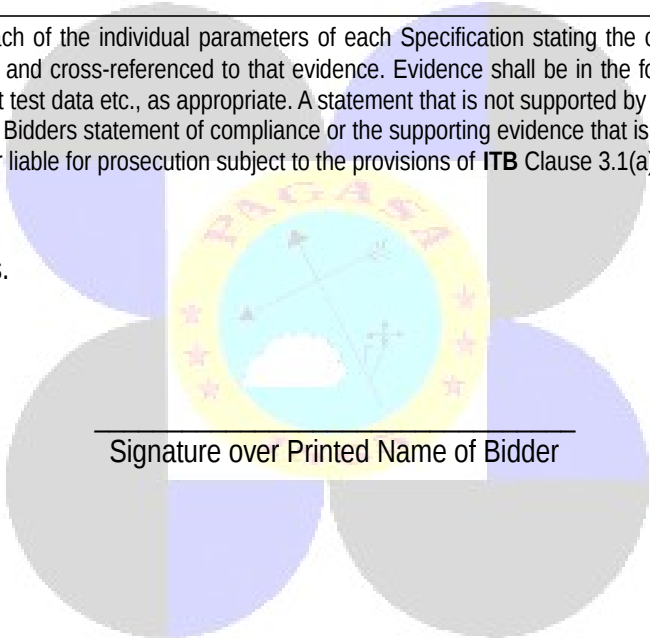
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	<p>2. The obligation for the warranty shall be covered by either retention money in an amount equivalent to at least one percent (1%) of every progress payment, or a special bank guarantee equivalent to at least one percent (1%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period: Provided, however: That the supplies delivered are free from patent and latent defects and all the conditions imposed under the contract have been fully met.</p> <p>3. The winning bidder likewise warrants that it shall strictly conform to all the Terms and Conditions of this Terms of Reference.</p>		
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**N.B.** 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 Bidders 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 provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1(a)(ii)

I hereby commit to comply with all the above requirements.

\_\_\_\_\_  
Name of Company/Bidder



\_\_\_\_\_  
Signature over Printed Name of Bidder

\_\_\_\_\_  
Date