



# **PHILIPPINE BIDDING DOCUMENTS**

**(Procurement of GOODS)**

**REBID: DESIGN, SUPPLY, DELIVERY,  
INSTALLATION, INTEGRATION,  
TESTING, COMMISSIONING, AND  
TRAINING FOR ONE (1) SET DIGITAL  
TV TRANSMISSION EQUIPMENT  
WITH SATELLITE RECEIVER AND  
ANTENNA SYSTEMS FOR PTV  
LEGAZPI OF THE PEOPLE'S  
TELEVISION NETWORK, INC. (PTNI)  
ITB No. 2024-0015R**

Government of the Republic of the Philippine

**Sixth Edition  
November 2024**

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# *Glossary of Acronyms, Terms, and Abbreviations*

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

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

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

**CDA** - Cooperative Development Authority.

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

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

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

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

**EXW** – Ex works.

**FCA** – “Free Carrier” shipping point.

**FOB** – “Free on Board” shipping point.

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

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national

buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

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

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

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

**UN** – United Nation



## ***Section I. Invitation to Bid***

### ***Rebid: Design, Supply, Delivery, Installation, Integration, Testing, Commissioning, and Training for One (1) Set Digital TV Transmission Equipment with Satellite Receiver and Antenna Systems for PTV Legazpi of the People's Television Network, Inc. (PTNI) ITB No. 2024-0015R***

1. The *People's Television Network, Inc. (PTNI)*, through the **GAA 2024** intends to apply the sum of **twenty million pesos (PhP 20,000,000.00)** being the ABC to payments under the contract for **ITB No. 2024-0015R**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *People's Television Network, Inc. (PTNI)* now invites bids for the above Procurement Project. Delivery of the Goods is required within **one hundred twenty (120) calendar days**. Bidders should have completed, within **eight (8) 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.

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 *People's Television Network, Inc. (PTNI)* and inspect the Bidding Documents at the address given below during office hours from 9:00 am - 5:00 pm.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **28 November 2024** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **twenty-five thousand pesos (PhP 25,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person or through electronic means.

Interested bidders shall pay through any of the following means:

1. Cashier (In Person)
  - a. Kindly inform the Secretariat through this number/s 0938-935-3213 upon arrival.
  - b. Observe Minimum Health Protocols
  
2. PTNI's Bank Account (Land Bank of the Philippines).
  - a. Account Name: PTNI
  - b. Account Number: 3212100497
  - c. Kindly Email the proof of payment at the email address given below
  
6. **The People's Television Network, Inc. (PTNI) will hold a Pre-Bid Conference on 5 December 2024, 10:00 am at 3rd Floor BAC Secretariat Office, PTNI Broadcast Complex, Visayas Avenue, Diliman, Quezon City and/or through video conferencing or webcasting via Google Meet, which shall be open to prospective bidders.**

**Google Meet: [meet.google.com/qzt-jmft-vuu](https://meet.google.com/qzt-jmft-vuu)**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before on or before **7 January 2024, 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 **7 January 2024, 10:30 am** at the given address below and/or via **Google Meet**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Google Meet: [meet.google.com/gih-qmun-was](https://meet.google.com/gih-qmun-was)**

10. **The People's Television Network, Inc. (PTNI) will hold a Site Inspection on 9 December 2024, 10:00 AM at Lot No. 10706 Brgy. 55 - Eztanza, Legazpi City. Prospective bidders are requested to confirm their intent to participate by sending a letter to [bacsecretariat@ptni.gov.ph](mailto:bacsecretariat@ptni.gov.ph) before the scheduled date of site inspection.**

*Mr. Lydio Valencia of PTV Legazpi will be the representative of the Network at the project site, whom you may contact at 09771133879.*

*Prospective Bidders shall enforce minimum health protocols among themselves during the activity.*

*Certificate of Site Inspection will be signed by the PTNI's representative after the activity, which shall be required to be included in the bid tender (Technical Component).*

*The Certificate of Site Inspection of those prospective bidders who already conducted site inspection from the previous bidding (ITB No. 2024-0011) of this project is considered for this project*

11. The *People's Television Network, Inc. (PTNI)* 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:

**BAC Secretariat**

People's Television Network, Inc. (PTNI)  
3rd Floor, PTNI Broadcast Complex,  
Visayas Avenue, Diliman, Quezon City  
bacsecretariat@ptni.gov.ph  
0938-935-3213  
www.ptni.gov.ph

13. You may visit the following websites:

For downloading of Bidding Documents: <https://ptni.gov.ph/procurement/>  
Procurement forms: <https://www.gppb.gov.ph/downloadable-forms/#tab-61412> or  
<https://drive.google.com/drive/folders/1-Zxp5ms03u9GHWBp9YOUgw05eWdzX0V0?u sp=sharing>

**28 November 2024**

**JASMINE B. BARRIOS**

Chairperson, Bids and Awards Committee (BAC)



## ***Section II. Instructions to Bidders***

### **1. Scope of Bid**

The Procuring Entity, *People's Television Network, Inc. (PTNI)* wishes to receive Bids for the ***Rebid: Design, Supply, Delivery, Installation, Integration, Testing, Commissioning, and Training for One (1) Set Digital TV Transmission Equipment with Satellite Receiver and Antenna Systems for PTV Legazpi of the People's Television Network, Inc. (PTNI)***, with identification number ***ITB No. 2024-0015R***.

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

### **2. Funding Information**

2.1. The GOP through the source of funding as indicated below for ***2024*** in the amount of ***twenty million pesos (PhP 20,000,000.00)***.

2.2. The source of funding is ***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:

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

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

## **6. Origin of Goods**

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

## **7. Subcontracts**

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

The Procuring Entity has prescribed that Subcontracting is not allowed.

## **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 videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

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

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

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

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within *eight (8) years* prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## 11. Documents comprising the Bid: Financial Component

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

## 12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
  - a. For Goods offered from within the Procuring Entity's country:
    - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
    - ii. The cost of all customs duties and sales and other taxes already paid or payable;

- iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
  - iv. The price of other (incidental) services, if any, listed in 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 Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until ***one hundred (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.

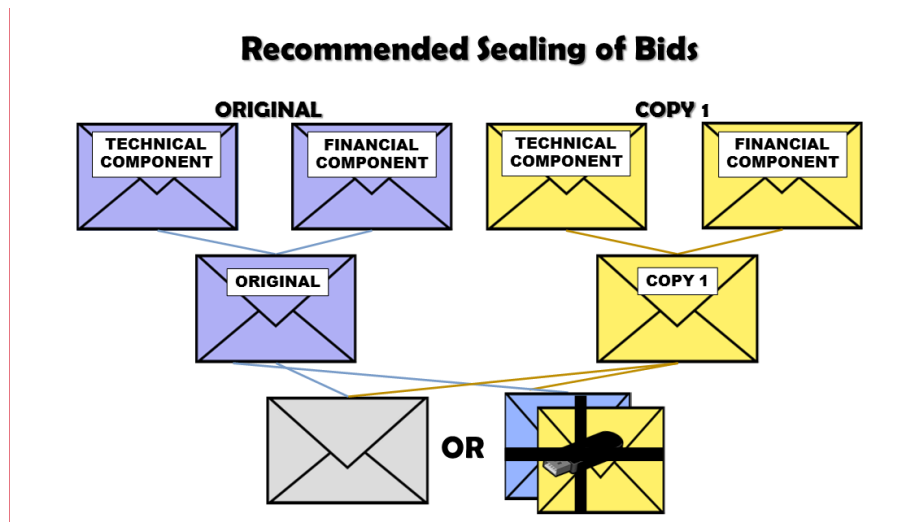
### **15. Sealing and Marking of Bids**

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

*As additional requirements, the bidder shall also submit (Copy 1) and an electronic copy in USB Flash Drive (Real PDF, Doc or Docx format) of the first and second components of its Bid. The "Copy 1" shall be stamped "Certified True Copy of the Original" per page with printed name and signature.*

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.



**JASMINE B. BARRIOS**  
Chairperson  
Bids and Awards Committee  
PTNI Broadcast Complex,  
Visayas Avenue, Diliman, Quezon City

Bid for:  
ITB No.: \_\_\_\_\_  
Project Title: \_\_\_\_\_

Submitted by:  
Bidder's Company Name: \_\_\_\_\_  
Bidder's Contact Details: \_\_\_\_\_

**“DO NOT OPEN BEFORE (the date and time of opening of bids)”**

*A bidder may, through a letter, withdraw its bid before the deadline for the receipt of bids. Withdrawal of bids after the applicable deadline shall be subject to appropriate sanctions as prescribed in this IRR. A bidder may also express its intention not to participate in the bidding through a letter which should reach and be stamped received by the BAC before the deadline for the receipt of bids. A bidder that withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.*

## **16. Deadline for Submission of Bids**

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

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

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

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

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

## **18. Domestic Preference**

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

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

- 19.1. The Procuring 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 that shall be awarded as one contract.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## **20. Post-Qualification**

20.1.

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***

<b>ITB Clause</b>	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> <li>a. <b><i>Supply and installation of Analog and/or Digital TV Transmission Equipment” or “Supply and installation of Radio or TV Broadcast Antennas.</i></b></li> <li>b. completed within <b><i>eight (8) years</i></b> prior to the deadline for the submission and receipt of bids.</li> </ul>
7.1	<b><i>subcontracting is not allowed</i></b>
12	The price of the Goods shall be quoted DDP <b><i>Legazpi City</i></b> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<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"> <li>a. The amount of not less than two percent (2%) of 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 five percent (5%) of ABC if bid security is in Surety Bond.</li> <li>b. The amount of not less than two percent (2%) of 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 five percent (5%) of ABC if bid security is in Surety Bond.</li> </ul>
19.3	<i>Not Applicable</i>
20.2	<p><i>Before the post-qualification, the bidder with the lowest calculated bid shall submit:</i></p> <p><b><i>Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS)</i></b></p>
21.2	<i>None.</i>



# ***Section IV. General Conditions of Contract***

## **1. Scope of Contract**

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

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

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

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

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

## **3. Performance Security**

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

## **4. Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project 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**

- 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.

## **6. Liability of the Supplier**

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

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

## *Section V. Special Conditions of Contract*

GCC Clause	
	<p><b>Delivery and Documents –</b></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>“The delivery terms applicable to the Contract are DDP delivered [<i>indicate place of destination</i>]. In accordance with INCOTERMS.”</p> <p>[<i>For Goods supplied from within the Philippines, state:</i>] “The delivery terms applicable to this Contract are delivered [<i>indicate place of destination</i>]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is <i>Ms. Elenita Directo and Mr. Florante Gacis of Provincial Network Division</i>.</p> <p><b>Incidental Services –</b></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> <p><i>Select appropriate requirements and delete the rest.</i></p> <ul style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>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</li> </ul>
	<ul style="list-style-type: none"> <li>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.</li> <li>f. [<i>Specify additional incidental service requirements, as needed.</i>]</li> </ul>

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

**Spare Parts –**

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

*Select appropriate requirements and delete the rest.*

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:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

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

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of *three times the warranty period*.

Spare parts or components shall be supplied as promptly as possible, but in any case, within a month 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.

	<p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity  Name of the Supplier  Contract Description  Final Destination  Gross weight  Any special lifting instructions  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><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 carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p>

	<p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property 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>
2.2	<p><i>Payment shall only be made within thirty (30) calendar days after the appropriate documents and procedures or the like have been complied with as mandated by existing government rules and regulations</i></p>
4	<p>The inspections and tests that will be conducted are:</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.

### 1. DTT Transmitter System and all accessories

Item	Description	Quantity	Unit	
1.1	UHF Channel 39 1kW Air-Cooled Digital TV Transmitter System with accessories	1	lot	<b>Within one hundred twenty (120) calendar days upon signing of Notice to Proceed</b>
1.2	Dual Exciter and Control System with Dual GPS antenna and receiver	1	lot	
1.3	RF Power Amplifiers Doherty Configuration	1	lot	
1.4	Dual channel Audio and Video Processor with audio limiter	1	set	
1.5	Waveform Monitor	1	lot	
1.6	Broadcast Color Monitor	1	set	
1.7	Audio Monitor	1	set	
1.8	Multi-viewer (at least 8 inputs) with TV monitor (Auto Sense input SD,HD)	1	set	
1.9	TV Monitor	2	units	
1.10	8x8 HD/SD-SDI routing Switcher	1	set	
1.11	SDI HD/SD Video Patch Panel	1	lot	
1.12	Operator's Console Table	1	lot	
1.13	Maintenance work bench	1	lot	
1.14	Swivel chair	2	pcs	
1.15	Desktop computer monitoring system	1	lot	

## **2. DTT Transmitter Antenna Systems and all accessories**

General Requirements:

1. The bidder shall provide the design to meet the PTNI-provided antenna configuration.
2. The bidder shall provide high quality antenna elements, frames and brackets and install them at the tower.

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Within one hundred twenty (120) calendar days upon signing of Notice to Proceed</b>
2.1	DTT Antenna System and Accessories for 1kW (see attached Antenna configuration)	1	lot	
	- Rigid Line - Band Pass Filter - Directional Coupler - Harmonic Filter - Dummy Load - 4-Port Patch Panel - Rigid Line Kit/accessories			
2.2	Antenna Installations and testing services	1	lot	

## **3. TVRO System**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Within one hundred twenty (120) calendar days upon signing of Notice to Proceed</b>
3.1	At least 2.8 meters solid or Mesh C-Band Parabolic Antenna with appropriate Pedestal height with counter weight	1	Set	
3.2	Multi-channel Integrated Receiver and Decoder (SDI output)	1	Unit	
3.3	Phased Locked Loop Low Noise Block Down Converter	1	Unit	
3.4	Portable SDI Monitor	2	Unit	

## **4. Electrical System and Transmitter AC Protection System**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Within one hundred twenty (120) calendar days upon signing of Notice to Proceed</b>
4.1	Automatic Voltage Regulator	1	set	
4.2	Isolation Transformer	1	set	
4.3	Uninterrupted Power Supply	1	set	
4.4	Complete grounding System	1	lot	
4.5	Electrical Cable Three (3) Phase 4 wires	1	lot	
4.6	Power Distribution Units Main and Backup	1	lot	



**5. Installation Materials and Services of all the tables above**

Item	Description	Quantity	Unit	<p style="text-align: center;"><b>Within one hundred twenty (120) calendar days upon signing of Notice to Proceed</b></p>
5.1	Logistics, testing, commissioning, and integration	1	lot	
5.2	Warranty on equipment and Workmanship.	3	years	
5.3	Installations, Installation Materials which include: Racks, Cable trays and cable ways, electrical panels, circuits breakers, wires and cables, connectors, conduits, frames and brackets, and all needed materials to make a complete installation works.	1	lot	
5.4	Training shall include; Operations, Diagnostic, troubleshooting, maintenance and repair of all equipment and accessories including installation wiring testing and commissioning, RFI, test instrument settings and readings.	1	lot	

## ***Section VII. Technical Specifications***

*[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.]*

*Vendors shall address each item or paragraph of the requirements below with an appropriate phrase or explanation as to compliance in his bid response. Use phrases such as "Comply" if compliance, or "Do not comply for not compliance".*

**Sample: 1. All equipment must be 110V to 240VAC 60Hz unless otherwise specified. - COMPLY**

### **General requirements**

1. All equipment must be 110V to 240VAC 60Hz unless otherwise specified.
2. All equipment must be conformed to the ISDB-T system
3. All video equipment must be conformed to Full HD 1920x1080i/p embedded audio.
4. The Transmitter being offered must be the latest technology.
5. All computers must be desktop type with suitable specifications for its needed applications.
6. All supplied major equipment must be rack-mounted and the rest of smaller equipment shall be installed with the appropriate rack-mount trays.
7. All cables and connectors must be a high quality globally known brand for the TV broadcast industry.
8. The bidder shall supply a sufficient number of metal racks with adequate space ventilation for the equipment.
9. The bidder shall supply and install a complete working system. Any additional equipment, interface modules or cards or wiring needed even if not specifically mentioned herein shall be supplied and installed without additional cost to the PTNI.
10. The Dielectric Feeder Line shall be capable of handling upgraded power (from 1kW to 5kW) for future upgrading.
11. The Feeder Line shall be supplied with sufficient quantity of cable hangers, hoisting stockings, cable clamps, wall-gland/wall feed thru, earth grip and other feeder accessories for suitable connection to angular rings of the transmission line ladder/bridge of the Rigid Line from the Coaxial Switch as well as the suitable connector to Antenna power distribution systems.
12. All civil works altered during installation shall be restored by the winning bidder at their own cost.
13. Any or all variation order must first be approved by the HOPE prior commencing any variation works.

**1. DTT Transmitter System and all accessories**

ITEM	DESCRIPTION	REQUIREMENTS	Statement of Compliance
<b>1.1</b>	<b>DTT Transmitter</b>		
	Operating Frequency & System	<ul style="list-style-type: none"> <li>● Band IV/V UHF Ch 39 (620-626 MHz); Tunable; 6 MHz BW</li> <li>● Must be Single Frequency Network (SFN), Multi-frequency Network (MFN) configuration capable</li> <li>● Decompression Satellite, TS and IP Receiver and the multiplexer shall conform with EWBS ISDB-T</li> </ul>	
	Composition	<ul style="list-style-type: none"> <li>● 100% Solid State</li> </ul>	
	Output Power	<ul style="list-style-type: none"> <li>● 1kW Power after the band pass filter</li> <li>● Low Voltage Standing Wave Ratio (VSWR)</li> <li>● Power Output Stability must be 0.5dB or better.</li> </ul>	
	Overall System Efficiency	<ul style="list-style-type: none"> <li>● Not less than-36%</li> <li>● Spurious Emissions must be less than -60dBc/20mW</li> </ul>	
	Modulated Error Ratio (MER)	<ul style="list-style-type: none"> <li>● At least 34dB or better</li> </ul>	
	Output Connector	<ul style="list-style-type: none"> <li>● 1-5/8" EIA</li> </ul>	
	Electrical Input	<ul style="list-style-type: none"> <li>● Use Bus Bar Frame suitable to the supplied transmitter, 220volts 60Hz, single phase 3 wires or three phase 4 wires, 60Hz</li> </ul>	
<b>1.2</b>	<b>Exciter and Control System</b>		
	Control Monitoring System	<ul style="list-style-type: none"> <li>● Fully digitized metering, fault indicators and control functions up to component level</li> <li>● User-friendly control panel with LCD touch screen display.</li> <li>● GUI for main monitoring and control system and/or selectable switch ON/OFF for each exciter.</li> <li>● The monitoring control system should be able to display the necessary parameter such as but not limited to:               <ul style="list-style-type: none"> <li>○ Output Power</li> <li>○ Input Status</li> <li>○ Reflected Power</li> <li>○ Output Source Voltage</li> <li>○ Cooling Temperature</li> <li>○ Module Supply Voltage</li> <li>○ Module Power Output</li> <li>○ Drain Current (PA)</li> </ul> </li> </ul>	

		<ul style="list-style-type: none"> <li>○ Amplifier Fault - Reflected Power, OverDrive, Over Heat.</li> <li>○ Power supply fault - excessive current, Output over voltage, over heat</li> <li>○ Cooling system faultOperation log/history</li> <li>○ Peak Power Output</li> </ul>	
	Remote Management	<ul style="list-style-type: none"> <li>● Ethernet and SNMP input for local and remote network access, or</li> <li>● Capable of integrating with 3<sup>rd</sup> party management programs</li> </ul>	
	PC Client	<ul style="list-style-type: none"> <li>● For control and monitor of the transmitter via LAN (<i>please refer to 2.3 Technical Requirements and General Specifications item 5 above</i>).</li> </ul>	
	Exciter System	<ul style="list-style-type: none"> <li>● Dual Exciter with Automatic Change-over Switch</li> <li>● ISDB-T Digital Terrestrial Transmission Standard</li> <li>● Frequency Agile</li> <li>● Both ASI and IP BTS inputs</li> <li>● GPS input (10MHz / 1PPS) for Synchronization and SFN operation</li> <li>● Automatic Digital Pre-correction capability</li> <li>● Automatic gain control shall be incorporated to keep the visual and aural outputs constant under varying modulation levels.</li> </ul>	
<b>1.3</b>	<b>RF Power Amplifiers</b>	<ul style="list-style-type: none"> <li>● 100% Solid State</li> <li>● Broadband Doherty configuration with the latest UHF power Laterally-Diffused Metal-Oxide Semiconductor (LDMOS) transistor technology (supplier should indicate the model of LDMOS transistor used by their transmitters)</li> <li>● Tunable</li> <li>● Modular and Hot Swappable with at least two (2) Power Amplifier Modules</li> <li>● All power amplifiers should be identical and operate in parallel and should be interchangeable with one another.</li> <li>● All RF amplifier modules shall be protected against over temperature, over-current, overdrive, and reflected power.</li> <li>● All modules shall be provided with suitable visual alarms to indicate faults</li> </ul>	

		<p>within to facilitate identification</p> <ul style="list-style-type: none"> <li>• Visible Fault indicators Field Repairable</li> </ul>	
<b>1.4</b>	<b>Audio and Video Processor</b>	<p>Rack mounted Audio Video Processor with Automatic Audio Level Control.</p> <ul style="list-style-type: none"> <li>- shall be dual processor (redundant) house in a single 1 RU frame</li> <li>- HD/SD-SDI input output with BNC connector</li> <li>- Automatic adjust audio level output into a reference level</li> <li>- Capable of adjusting video parameters, audio parameters manually.</li> </ul>	
<b>1.5</b>	<b>Waveform Monitor</b>	<p>Shall be broadcast type, SDI HD/SD BNC input/output embedded audio Switchable inputs, switchable function waveform and vector, auto sensing video and audio format, video format select display. (for baseband input monitoring)</p>	
<b>1.6</b>	<b>Color Monitor</b>	<p>Shall be broadcast type, SDI HD/SD BNC input/output embedded audio</p>	
<b>1.7</b>	<b>Audio Monitor</b>	<p>Powered stereo Left and Right flat monitor (without tone control)</p>	
<b>1.8</b>	<b>Multiviewer and TV monitor</b>	<p>At least 8 inputs multiviewer (2 HDMI output) and at least 55 inches TV monitor with HDMI inputs</p>	
<b>1.9</b>	<b>TV Monitor</b>	<p>At least 32 inches Digital ready TV. (for off air monitoring)</p>	
<b>1.10</b>	<b>8x8 SDI routing Switcher</b>	<p>To switch the program from local studio to IRD (when studio is not being used).</p>	
<b>1.11</b>	<b>SDI HD/SD Video Patch Panel</b>	<p>All SDI BNC Input and Output must be passed through 1-RU Patch bay with U-Link and Patch cord for easy by-pass and testing.</p> <p>Normally closed Patch Panel</p>	
<b>1.12</b>	<b>Operator's Console Table</b>	<p>Suitable for operator's computer controls, configurations, and diagnostics.</p>	
<b>1.13</b>	<b>Maintenance work bench</b>	<p>Must have the following:</p> <ol style="list-style-type: none"> <li>1. Lights</li> <li>2. Outlet includes (Power, LAN, Audio, Video, RF) connectivity to the system</li> <li>3. At least 2 Tools drawer</li> </ol>	
<b>1.14</b>	<b>Swivel chair</b>	<p>Low Back without armrest</p>	
<b>1.15</b>	<b>Desktop computer monitoring system</b>		

## 2. DTT Transmitter Antenna Systems and all accessories

2.1	DTT Transmitter Antenna		
ITEM	DESCRIPTION	REQUIREMENTS	Statement of Compliance
	- Rigid Line	- 1-5/8 EIA I/O Connector - Must be installed properly and accessible	
	- Band Pass Filter	- 6 or 8-Pole Critical Mask for ISDB-T - At least 1kW (ms) power rating for ISDB-T Band IV/V UHF	
	- Directional Coupler	- Shall be after the filter - With at least three ports (1 for Forward, 1 for Reflected and 1 for test measurement)	
	- Harmonic Filter	At least 1kW up to its maximum allowable power rating for ISDB-T Band IV/V UHF	
	- Dummy Load	At least 1kW power rating for ISDB-T	
	- 4-Port Patch Panel	Includes the 1-5/8" U-Link	
	- Rigid Line Kit	1-5/8" Line sections, elbows, connectors, etc. for the interconnection of the transmitter system to the transmitter output.	
	Transmission Line	Semi-flexible Foam type	
2.2	<b>Antenna Installations and testing services</b>	- Antenna design, computation, installations and orientations. - Antenna inspection & initial testing, Radio Frequency Intensity (RFI) testing and submission of Radio Frequency Coverage.	

## 3. TVRO System

ITEM	DESCRIPTION	REQUIREMENTS	Statement of Compliance
3.1	<b>TVRO Antenna</b>	<ul style="list-style-type: none"> <li>At least 2.8 meters Solid Type C-Band Parabolic Antenna, with Pole mounted.</li> <li>Elevation alignment must be at least 0 to 90 degrees while the Azimuth must be 0 to 360 degrees Center Feed/Prime Focus feed alignment, C-band received.</li> </ul>	
3.2	<b>Integrated Receiver and Decoder</b>	<ul style="list-style-type: none"> <li>Integrated Decoder Receiver – input must be DVB-S, DVB-S2, DVB-ASI, L-band received, output SDI ASI-TS, Video decoder HD and SD, Mpeg4 HD SD, Mpeg2 HD SD 4:2:2 or 4:2:0, demodulator DVB-S QPSK DVB-S2 QPSK, 8PSK, front panel control, SNMP and web GUI.</li> </ul>	
3.3	<b>Phased Locked Loop Low Noise Block Down Converter</b>	C-band PLL LNB <ul style="list-style-type: none"> <li>Phased Locked Loop</li> <li>INPUT : 3.4-4.2GHz</li> <li>LO Freq. : 5.15GHz</li> <li>Stability : +/- 5 or 5.15 kHz</li> </ul>	

		<ul style="list-style-type: none"> <li>• Temp. : 17 - 20K</li> <li>• Gain : 60 - 65dB</li> </ul>	
3.4	<b>Monitor</b>	<ul style="list-style-type: none"> <li>• Portable HD/SD-SDI embedded audio (BNC Connector)</li> <li>• Analog Composite Input (BNC Connector)</li> <li>• HDMI Input Connector</li> <li>• Audio input</li> </ul>	

**4. Electrical System and Transmitter AC Protection System**

ITEM	DESCRIPTION	REQUIREMENTS	Statement of Compliance
4.1	<b>Automatic Voltage Regulator</b>	<ul style="list-style-type: none"> <li>• Suitable to all supplied equipment</li> <li>• This equipment shall be with technical specifications conforming to electrical requirement of the system</li> </ul>	
4.2	<b>Isolation Transformer</b>		
4.3	<b>Uninterrupted Power Supply</b>	Uninterruptible power supply (UPS) with at least 10 minutes back-up time for supplied equipment and transmitter system only.	
4.4	<b>Grounding System</b>	Complete grounding system – please refer to item no. 4 - Electrical System and Transmitter AC Protection System of Technical Specification (narrative form).	
4.5	<b>Electrical Cable Three (3) Phase 4 wires</b>	Appropriate size of Electrical cables capable to load up to 5Kw transmitter and accessories for future upgrading, 3 wires plus Ground, with proper terminal lags	
4.6	<b>Power Distribution Units Main and Backup</b>		

**5. Installation Materials and Services of all the tables above**

ITEM	DESCRIPTION	REQUIREMENTS	Statement of Compliance
5.1	<b>Logistics, testing, and commissioning.</b>	All logistics, storage, board and lodging, testing and commissioning expenses (both PTNI and Supplier personnel who are involved in the testing, commissioning and inspection) shall be at the account/expenses of the winning bidder.	
5.2	<b>Warranty on equipment and workmanship.</b>	Three (3) years full warranty on all supplies and all services (refer to item No. 7 - Warranty on equipment and Workmanship).	
5.3	<b>Installations</b>	Installations, Installation Materials which includes: racks, cable trays and cable ways, electrical panels, circuits breakers, wires and cables, conduits, frames and brackets, and all needed electronics, electrical, ICT, civil materials/accessories to make a complete installation works shall be supplied by the winning bidder without additional cost to PTNI. (Refer to	

		Item No. 5 under Technical Specifications - Installations, testing, and commissioning).	
<b>5.4</b>	<b>Trainings</b>	Training shall include operations, diagnostic, troubleshooting, maintenance and repair of all equipment and accessories including installation, wiring, testing and commissioning, RFI, test instrument settings and readings. (Refer to Item No. 6 - Training).	

**Technical Specification (Minimum Requirements)  
Bidder shall offer an equivalent or better Technical Specifications)**

*Vendors shall address each item or paragraph of the requirements below with an appropriate phrase or explanation as to compliance in his bid response. Use phrases such as "Comply" if compliance, or "Do not comply for not compliance".*

*Sample: 3.1 Power Output Rating*

*The transmitter as supplied should be designed for operation at one (1) kilowatt average DTV power. – COMPLY*

NOTE: The End user representative understands that the specifications written in the manufacturer’s brochure are limited and some of the requirements may not be seen in the submitted brochure.

1. For reference, the bidder shall submit a written document including a glossary/index on where to find the parameters of the Technical Specifications
2. The winning bidder shall show all Technical Requirements during testing and commissioning based on the written documents stated in item 1

**1.1 System Description and Equipment to be supplied**

**General Specifications**

- a. The transmitter shall have a high quality transmission output of ISDB-T digital television signal on the UHF TV in accordance with the specifications in this document
- b. The transmitter and antenna system shall be a current production model and newly manufactured.
- c. All active components in the transmitter shall be solid state including the final power amplifier stages.
- d. Transmitter shall be a solid state UHF transmitter with two (2) complete identical ISDB-T exciters (redundant configuration), a control system, and plug-in RF amplifiers, two power supplies for every RF amplifiers, external RF Filter system, all required accessories and equipment for a complete operating system not mentioned in the schedule of requirements but necessary for the completeness of the project shall be supplied and delivered by the winning bidder.
- e. The final RF amplifier stages shall use LDMOS high reliability transistors in a Doherty configuration.
- f. Complete installation materials including RF and inter cabinet cabling shall be supplied. A complete list of installation materials shall be submitted in the bid.
- g. The winning bidder shall provide and install the required breakers, electrical conduits and wiring for AC power to the transmitter.



## **1.2 Installation Planning and Coordination**

The winning bidder, in coordination with the End-user representative and Project Management Office (PMO) shall submit the final layout showing that the placement of the equipment fits within the available space of the transmitter building.

## **1.3. Transmitter General Requirements**

- a. The UHF Digital Transmitter System shall be TV Channel 39, 1kW, Air-Cooled, 100% Solid State, SFN, MFN for ISDB-T, User friendly control panel with LCD touch screen display, SNMP input for local and remote network access.
- b. The transmitter as supplied should be designed for operation at one (1) kilowatt DTV power final output.
- c. The transmitter shall be designed to operate on available electrical power supply in the site.

## **1.4. RF Output Systems**

- a. Transmitter Output (RF output), the Rigid Lines must be laid out in a neat and accessible manner. The Rigid Lines of the transmitter Feeder Line shall be of appropriate size flange type connector. The Rigid Lines shall be provided with sufficient quantity of hangers, inner support, coupling elements, elbows, and other accessories and connectors for suitable connection to Main Feeder Line and also to the Coaxial Switch that connects the Feeder/Rigid Lines to the Transmitter RF Systems. Rigid Lines must be high quality and compatible with the supplied Transmitter and Antenna System.
- b. A 4-port patch panel at the output of the system shall be provided. The patch panel will be provided with integral interlocks to be a part of the transmitter control system to allow easy connection of the transmitter to the station load.
- c. Provide all interconnecting coaxial transmission lines, from the output of the final power amplifier to the input of the RF Mask filter.
- d. Provide all interconnecting coaxial transmission lines, from the output of the RF Mask filter to the patch panel and station load.
- e. Directional couplers shall be provided on the RF output system after the output filter to monitor forward and reflected power to facilitate monitoring, tuning and testing.
- f. Precision calibrated directional couplers shall be provided on the output of the system ahead of the 4-port patch panel for station use. One adjusted to intercept forward power, the other for reflected power.

## **1.5. Transmitter Cooling System**

- a. The transmitter shall be air-cooled.
- b. All necessary fans and filter installation shall be included.
- c. Air may enter the transmitter cabinet(s) at the top or at the bottom. Exhaust air shall exit the transmitter from the top or bottom.
- d. All necessary safety features and alarms for air cooling shall be provided with feedback to the control panel and remote control.

## **1.6. RF Amplifier Chain**

- a. Each amplifier module shall be provided protection systems for VSWR, high temperature, and over current.
- b. The currents of all transistors (or sub modules) of each amplifier will be monitored from the front panel of the transmitter.

- c. The high gain RF amplifiers shall use LDMOS high reliability transistors biased for linear class AB operation in Doherty Configuration.
- d. Amplifier modules shall be accessible from the front of the transmitter and be capable of being changed while on-air (hot-swappable) with no RF arcing.
- e. For maximum redundancy, all amplifiers shall utilize parallel devices to prevent complete loss of signal in the event of a failure of one of the devices.
- f. RF amplifier modules can be lifted by one (1) maintenance individual and shall be light weight.
- g. RF amplifier modules shall be interchangeable with any amplifier module in the transmitter.
- h. Removal of RF amplifier modules shall not change the performance specifications other than output power level.
- i. The Power Amplifier should be identical and operate in parallel and should be interchangeable with one another, Hot Swappable, All RF amplifier modules shall be protected against over temperature, over-current, overdrive, and reflected power, all modules shall be provided with suitable visual alarms to indicate faults within to facilitate identification, Visible Fault indicators field Repairable. RF direct samples should be available at the front panel of each amplifier and also at the front panel of the transmitter.

### **1.7. Band Pass Filter**

The Band Pass filter must be able to optimize to Channel 39.

### **1.8. Dummy Load**

Dummy Load must be compatible with the supplied transmitter at full power.

### **1.9. 4-Port Patch Panel**

4-Port Patch Panel must include U-link.

### **1.10. Rigid Line Kit**

Rigid line kit must be compatible with the line sections, elbows, connectors for the interconnection of the transmitter system to the transmitter RF output.

### **1.11 Coupling System**

The amplifier module combining system shall ensure maximum isolation between amplifier outputs.

### **1.12 Power Supply**

- a. There should be a minimum of 2 power supplies for every RF amplifier module.
- b. The power supplies shall be plug in modules.
- c. All power supplies shall have protection from overvoltage and over current.
- d. A thermal cut-off system will be provided for each amplifier power supply.

### **1.13 Exciters**

- a. The transmitter shall be equipped with two (2) identical ISDB-T exciters configured for main and stand-by with auto-switchover operation.
- b. The exciters shall be 100 percent solid state.
- c. Exciter switching shall be provided which may be controlled either locally or by remote control.

- d. A status indicator shall be provided indicating which exciter is on line. Status contact closures shall be provided for remote indication of exciter selected.
- e. A GPS receiver to be used with each ISDB-T Exciter to ensure precise frequency lock shall be provided for SFN and configured for main and stand-by with auto-switchover operation.
- f. Each exciter shall include digital non-linear pre-correction capable.
- g. Each exciter shall be designed for minimum set-up and adjustment time.
- h. Exciter and GPS Receiving System must be redundant with automatic change over switch.
- i. Control monitoring must be backed up by PC via LAN.

#### **1.14 Transmitter Control/Monitoring System**

- a. The control/monitoring system shall be microprocessor based. (controlled via front LCD).
- b. The commands for Transmitter On, Transmitter Off, and Reset shall be discrete keys on the control panel.
- c. The system shall monitor:
  - Alarms
  - Power Output
  - VSWR/Reflected Power
  - Power transistor currents
  - Power supply status
  - Temperature
- d. The following indications shall be available on each amplifier:
  - Fault
  - VSWR/Reflected Power
  - Temperature
  - Amplifier status
- e. The control system shall provide transmitter protection for the following:
  - Excessive VSWR
  - Excessive transmitter temperature

#### **1.15 Remote Control**

System must be accessible through LAN or set up for internet connectivity.

#### **1.16 Monitoring**

- a. Waveform Monitor – Shall be broadcast type, SDI HD/SD BNC input/output embedded audio switchable inputs, switchable function waveform and vector, auto video and audio format, video format select display.
- b. Color Monitor – Shall be broadcast type, HDMI, SDI HD/SD BNC input and SDI HD/SD BNC output embedded audio
- c. Audio Monitor – Powered stereo Left and Right flat monitor (without tone control).
- d. Multi-viewer with TV monitor - At least 8 inputs multi-viewer at least 1 HDMI output, and 1 SDI output, and at least 55 inches TV monitor with HDMI inputs
- e. TV Monitor – At least 32 inches Digital ready TV.
- f. 8x8 SDI routing Switcher – To switch the program from local studio to IRD (when studio is not being used).
- g. All SDI BNC Input and Output must pass through 1-RU Patch bay normally closed, and at least 24 holes and 12pcs Patch cord for easy by-pass and testing.

**1.17** All outdoor coaxial semi-flexible transmission lines shall be foam type. If not, the pressurized dehydrator shall be supplied and installed.

**1.18** The winning bidder shall ensure that the dehydrators shall have more than sufficient capacity to handle the supplied transmission lines. The dehydrator must be able to keep the waveguide dry. The transmission line must maintain constant pressure to prevent ingress of moisture.

## **2. DTT Antenna Systems and all accessories**

2.1. One (1) kW DTT Broadcast antenna array

1kW antenna and feeders

Splitters and feeder cables

1kW UHF (Channel 39) DTT Antenna with Associated Accessories

Connectors

Adaptors

Fittings

Outdoor transmission lines

Mounting brackets

Supports

2.2. The power divider output with equal out power distribution.

2.3. Antenna panel construction materials of the New 1kW Antenna Systems have to be heavy duty types fabricated from hot dipped galvanized steel or equivalent and can handle more than 200 km/h wind velocity or higher.

2.4. All materials (tools) for installation, testing and commissioning are supplied by the winning bidder.

2.5. High level/detailed system diagram and Project Schedule for the antenna.

2.6 In this design and build project, the winning bidder must submit the following additional technical documents:

- a. A detailed design for the positioning of the antennas along the straight section of the tower, based on the provided antenna configuration.
- b. Detailed position of antenna mounting brackets to be used on the straight section (spine) of the tower.

## **3. TVRO System**

3.1. TVRO Antenna must be at least 2.8 feet solid or mesh type with pole mount. Drilling the building roof deck is prohibited.

3.2. The bidder shall provide concrete base on the roof of the building for TVRO Antenna Pole.

3.3. Elevation alignment must be at least 0 to 90 degrees while the Azimuth must be 0 to 360 degrees Center Feed/Prime Focus feed alignment, C-band received.

## **4. Electrical System and Transmitter AC Protection System**

4.1. Automatic Voltage Regulator.

4.3. Complete Grounding System. The winning bidder/contractor shall provide an efficient grounding system for the supplied project. All equipment must be connected to a grounding system. The contractor shall submit the test result of the grounding system before using the supplied equipment.

## **5. Installations, Testing, Commissioning and Integration**

5.1. Installation. The winning bidder shall provide high quality, neat Installations works and materials which includes:

- Racks
- Cable trays and cable ways
- Electrical panels
- Circuit breakers
- Wires and cables
- Conduits
- Frames and brackets
- All needed materials to make a complete installation works.

5.2. Materials for Testing and Commissioning. The winning bidder shall provide testing and commissioning materials for the supplied equipment. All essential data parameters shall be recorded and checked during actual testing and commissioning together with the Procuring Entity's representative.

5.3. Testing, Commissioning and Proof of Performance. The winning bidder shall conduct testing and commissioning with three (3) end-user representatives and at least show the following transmitter response based on the ISDB-T standard during the testing and commissioning of the DTT transmitter system: (The winning bidder must submit all test results to the Project Management Office (PMO) and Provincial Network Division (PND) for concurrence of the end-user.

1. Frequency Deviation
2. Signal Power
3. Occupied Frequency Bandwidth
4. Spectrum Mask
5. Spurious and Unwanted Emissions
6. IFFT Sampling Frequency Deviation
7. Phase Noise
8. Amplitude-Frequency Characteristics
9. Group Delay Characteristics
10. Delay Time
11. Intermodulation
12. Gaussian Noise vs. BER Characteristics
13. Power Consumption
14. Input Signal
15. Output End Mismatching Range
16. MER Characteristics
17. Actual Viewing of Video and Listening to Sound
18. Noise Figure

The winning bidder shall be responsible for covering all costs such as per diem, accommodation, transportation and any other related cost associated with the three (3) end-user representatives for the above activity.

## **6. Trainings**

6.1. The winning bidder must coordinate with the Project Management Office (PMO) to provide hands-on training for system operators on its operation and maintenance. This training will take place over three (3) days following the completion of testing and commissioning. The contractor is required to train a total of eight (8) technical personnel, as follows:

- Two (2) personnel from the PTV main station
- Two (2) personnel from PTV Naga
- One (1) personnel from PTV Calbayog, and
- Three (3) transmitter technicians at the project site.

The training will focus on the operation of the specified systems.

- DTT Transmitter System and all accessories
- DTT Antenna Systems and all accessories
- TVRO System and all accessories
- Electrical System and Transmitter AC Protection System
- Wiring and installations

6.2. The winning bidder shall provide five days (5) intensive training for the transmitter technical support for the repair and maintenance of the supplied transmitter:

- Operations
- Diagnostic
- Troubleshooting
- Maintenance and repair of all equipment and accessories including installation wiring testing and commissioning
- ISDB-T DTV Exciter theory, operation and adjustment
- Theory of operation of exciter and Integrated Power Amplifier and adjustment of controls and correction circuits
- Transmitter control circuit theory of operation and maintenance
- Solid State Amplifier theory of operation and maintenance
- RF output system theory and adjustment
- Radio Frequency Interference (RFI)
- Test instrument settings and readings

6.3. Training manuals and materials must be provided in English and include complete trouble-shooting manuals and complete as-built drawings.

6.4. The winning bidder must provide standard operating and safety/emergency procedures.

6.5. The winning bidder shall provide certificates upon completion of the required training courses.

6.6. The winning bidder shall shoulder all expenses such as but not limited to hotel accommodation, per diem, etc. of all the personnel involved throughout the training period.

## **7. Warranties on Equipment and Workmanship**

7.1. The bidder shall include the duly signed Service warranty and spare parts warranty for three (3) years for the whole project.

- DTT Transmitter System and all accessories
- DTT Antenna Systems and all accessories
- TVRO System and all accessories
- Electrical System and Transmitter AC Protection System
- Workmanship warranty covers defects or issues related to the quality of labor or craftsmanship involved in a project.

## **8. After Sales Service**

The winning bidder shall have an established field engineering service and technical support capable of providing 24/7 telephone, internet, online or on-site support service if needed.

The winning bidder shall provide technical support personnel/engineer on-site for thirty (30) calendar days, to provide assistance in operations and maintenance.

## **9. Storage, Warehousing and Operational Community Facilities**

9.1. The winning bidder is responsible to provide its own warehouse or storage facility.

9.2. The winning bidder has the responsibility to secure on-site storage/warehousing facility prior to the delivery of goods.

9.3. The overall responsibility for the security of all inventory/goods will lie with the winning bidder.

9.4. The winning bidder will also be responsible for board and lodging arrangements and other facilities (portlets, etc.) for their installation engineers and technicians on the project site.

9.5. Staying in the PTV building is not allowed.

9.6 The winning bidder shall ensure that all staff respect the local customs of affected communities and comply with local government laws when interacting.

## **10. Transportation, Accommodation and Meals**

### **10.1. Transportation**

The winning bidder shall be responsible for the provision of the following:

- All transportation requirements needed for transferring the equipment from the area of origin to the project site (on-site).
- Service vehicle for PTNI representatives during project implementations, testing, commissioning and training.
- Vehicle for PTNI Inspection team consisting of personnel during delivery inspections (personnel maximum of 6).
- Any means of transportation

### **10.2 Accommodation and Meals**

The winning bidder will be responsible for the expenses of PTNI representatives during delivery inspection, project implementation, testing, commissioning and training such as:

- Hotel accommodations
- Foods and drinking water

## **11. Health and Safety Standard Requirements**

- a. The winning bidder shall take note where all local clinics and hospitals are located in case of emergency.
- b. The winning bidder shall inform the PMO of PTNI the details of any accident immediately after its occurrence.
- c. The winning bidder shall maintain records and reports concerning health, safety and welfare of persons including damage to property.
- d. The winning bidder is required to include a safety plan with the following requirements:
  - Compliance with all applicable safety regulations
  - Safety of all persons authorized to install within the project areas; an
  - Use reasonable efforts to keep the site and works clear of unnecessary obstruction to avoid danger to the neighboring offices and employees.
- e. A Safety Engineer or Officer shall be present at all times during the project execution.

- f. The winning bidder shall at all times take the necessary precautions to protect neighboring offices and employees walking around the site to reduce the danger to their health.
- g. The winning bidder shall provide necessary precautions for any falling debris from the tower.
- h. The winning bidder shall provide safety gears to installers and workers involved in the project execution.

## **12. Winning Bidder's Personnel**

The winning bidder's personnel including its Joint Venture (JV) partner/s for the system installation or other related services, shall be appropriately qualified, skilled and experienced in their respective trades or occupations.

The Procuring Entity (PTNI) may require the winning bidder to remove (or cause to be removed) any person employed on the Site or Works, including the winning bidder's representative if applicable, who:

- Persists in any misconduct or lack of care.
- Carries out their duties incompetently or negligently.
- Fails to conform with any provisions of the Contract.
- Persists in any conduct which is prejudicial to the safety, health or the protection of the environment.

As may be needed, the Contractor shall immediately appoint a suitable replacement.

## **13. Supplier Safety Obligations**

13.1. The winning bidder shall ensure that all staff comply with safety procedures especially those involved in the installation of antennas.

13.2. The winning bidder should follow the Environmental Management Plan (EMP) during the construction and operation of the project. The EMP consists of mitigation measures to solve possible adverse impacts and monitoring compliance. A mitigation measure to follow includes:

- Setting up of temporary disposal units within the project area for proper disposal of generated wastes.
- The winning bidder's workers shall observe proper housekeeping, sanitation and waste minimization.

13.3. Activities should only be done during the day. Rendering work in the evening is allowed, provided a written clearance is secured from the PMO.

13.4. The winning bidder shall prepare and conduct decommissioning plans, including proposed disposal methods, recycling opportunities and collection.

13.5. Proper disposal of used chemicals (if any).

## **14. Electricity and Water**

14.1. The winning bidder has the option to install and use its own sub-meters for electric and water consumption on-site and shoulder the costs or opt to use its own generator.

14.2. The winning bidder shall consider the noise produced by the generator so as not to disturb the neighboring offices and employees.



**15. Bidder's Reference Information for the Project**

- a. Tower – 250 ft., 4- legged
- b. Transmitter room floor area – 5 m x 6.2 m x 3 m
- c. Floor Plan
- d. Electrical Supply
- e. Antenna Configuration

## PROJECT REQUIREMENTS

Design, Supply, Delivery, Installation, Integration, Testing, Commissioning, and Training For One (1) Set Digital TV Transmission Equipment With Satellite Receiver and Antenna Systems For PTV Legazpi of The People's Television Network, Inc. (PTNI)

### 1. PROJECT SITE

Site Address: Lot No. 10706 Brgy. 55, Estanza, Legazpi City

Site Details

Tower Height	250 ft., Four (4) legged
Transmitter Room Floor Area	22.48 sq.m (5 m x 6.2 m x 3 m)
Transmitter Building Area	54.41 sq. m
Transmitter Room Available Electrical Power Supply	230 V, 60 Hz, 100 A, 200 kVA transformer, 3 phase

### 2. PROJECT DURATION

This project shall be completed and operational within one hundred twenty (120) calendar days upon signing of the Notice to Proceed (NTP). The winning bidder shall provide the Schedule of Activities (Gantt Chart) to be undertaken within the said period.

For and in consideration of the performance and accomplishment of the Supply, Delivery, Installations, Configurations, Integration, Testing, Commissioning, and Training of the following items:

- a. One (1) Kilowatt DTT Transmitter System and all accessories
- b. DTT Transmitter Antenna Systems and all accessories
- c. TVRO System and all accessories
- d. Electrical System and Transmitter AC Protection System and all accessories
- e. Installation materials and services
- f. Testing, Commissioning, and Acceptance
- g. Training
- h. Three years (3) warranty

### 3. GENERAL REQUIREMENTS

- a. Manufacturer's Requirements
  - i. Antenna and transmitter, as supplied, shall be a complete operating system.
  - ii. The winning bidder shall supply a complete set of site-specific drawings showing exact placement and location of all RF systems, ductwork, transmitter equipment and antenna equipment. These drawings shall be approved by the End-user before the installation starts.
- b. Additional documents
  - i. Preliminary site-specific drawings showing placement and location of all RF systems, ductwork, transmitter equipment and antenna equipment.
  - ii. Certificate of authorized distributorship and/or dealership in the Philippines from the manufacturer of the offered transmitter and antenna

- iii. Certificate of Accreditation from the National Telecommunications Commission to engage in the supply of radio transceivers and/or broadcast equipment accessories from the bidder.
- iv. Certification that the bidder has a local service center capable of 24/7, 365 days a year equipment repair and maintenance support and shows the address of the bidders/supplier's Repair and Maintenance Center and Facility.
- v. Certification that the bidder is in the line of business of TV Broadcast Transmitter or Antenna equipment supplier, installer and integrator in the Philippines for not less than five (5) years.
- vi. Certification from the manufacturer that it has been engaged in the business of manufacturing ISDB-T/Digital TV transmitters for a minimum of eight (8) years.
- vii. Certification from the manufacturer that it has been engaged in the business of manufacturing TV antennas for a minimum of eight (8) years.
- viii. Certificate of guarantee from the manufacturer for the availability of spare parts and technical support services for the supplied transmitter, and antenna equipment for the next fifteen (15) years.
- ix. Certification from the manufacturer indicating the year of two previous models of the offered Transmitter and Antenna System (see Technical Specifications and General Requirements item 4).
- x. The bidder shall submit a written document including a glossary/index on where to find the parameters of the Technical Specifications
- xi. List of Installation materials
- xii. A complete equipment schedule of installation materials
- xiii. High level/detailed system diagram and Project Schedule for the transmitter and antenna

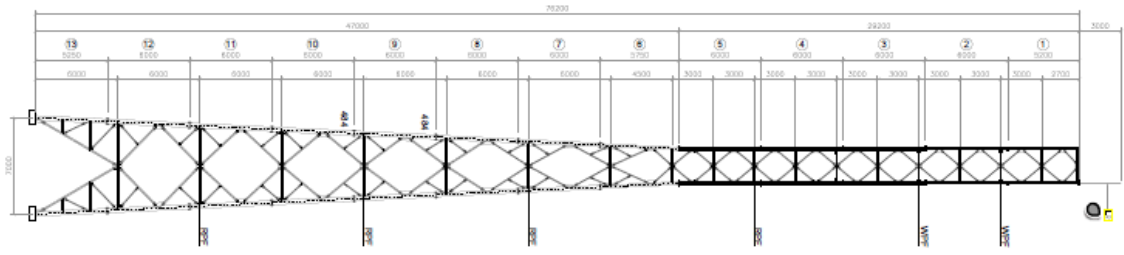
Similar contracts for this project shall refer to "Supply and Installation of Analog and/or Digital TV Transmission Equipment or Supply and Installation of Radio or TV Broadcast Antennas"

#### 4. SCOPE OF WORK AND DELIVERABLES

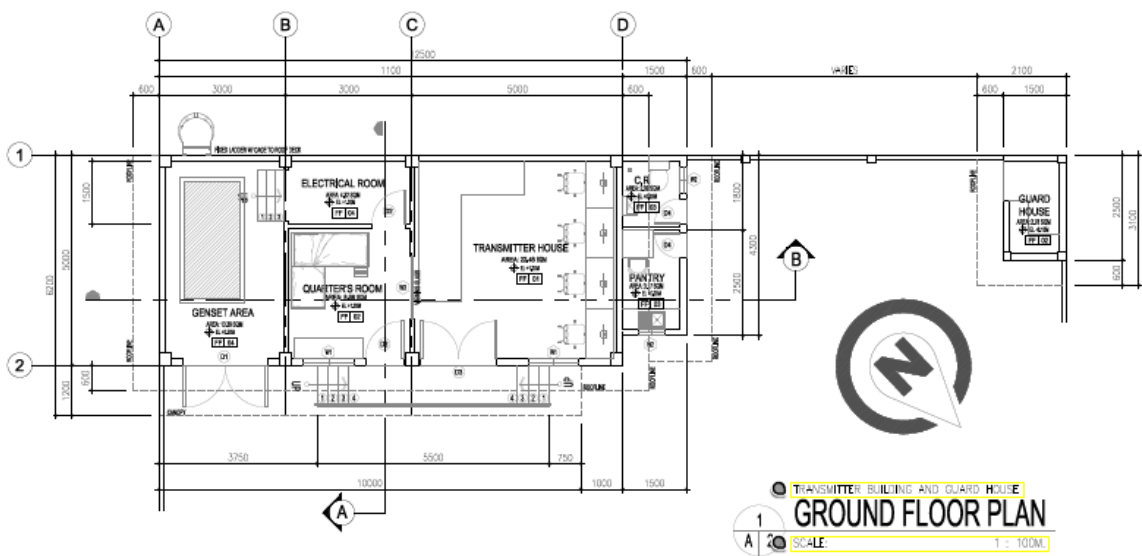
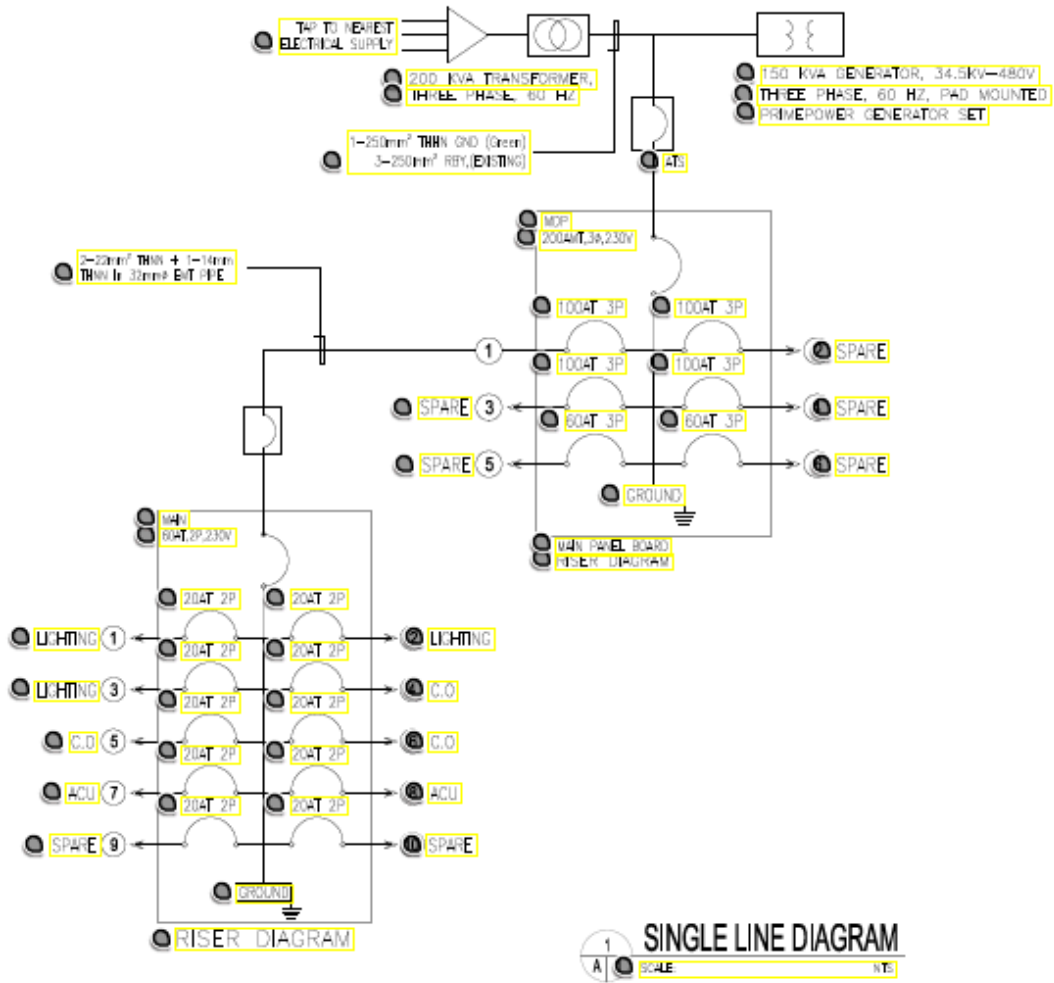
The winning bidder shall be responsible for the overall project for which includes the following:

- a. Design, Supply, Delivery, Installation and Integration Works
- b. Digital Terrestrial Transmitter (DTT) System and all accessories
- c. DTT Transmitter Antenna system and all accessories
- d. Television Receive Only (TVRO) System and all accessories
- e. Electrical System and Transmitter AC Protection System
- f. Testing, Commissioning and Proof of Performance
- g. The winning bidder shall submit Certification from the manufacturer that the transmitter has passed the factory testing.
- h. Site Acceptance Test (SAT)
- i. Personnel Training Detailed Technical Plans and Diagrams with complete Service manual
- j. Warranty and After Sales Service

# FLOOR PLAN



# ELECTRICAL SUPPLY



**MDP SCHEDULE OF LOADS :**

MARK	DESCRIPTION	NO. OF CIRCUIT	SWITCHES				VOLTAGE	WATTAGE	AMPERE PER PHASE			AMPERE PER PHASE				SIZE OF WIRE and CONDUITS			
			S1	S2	S3	S3W			AN	BN	CN	POLE	AT	AF	KABC	WIRE	GROUND	CONDUIT	
1	PP1	1					230	230	50 A				3P	100	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
2	SPARE	2					230	120	50 A				3P	100	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
3	SPARE	3					230	120	50 A				3P	100	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
4	SPARE	4					230	120	50 A				3P	100	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
5	SPARE	5					230	120	50 A				3P	60	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
6	SPARE	6					230	120	50 A				3P	60	50	10	2x2mm,THHN <sup>2</sup>	1-14mm,THHN <sup>2</sup>	32mm Ø ENT PIPE
TOTAL							230	800	300A										

**CALCULATION:**

$I_T = 12.30 \text{ A} \times 1.25 = 15.37 \text{ AMPS}$

FEEDER: 2-22mm THHN + 1- 14mm THHN IN 32mm Ø RSC CONDUIT  
MAIN: 60AT, 2P, 230V

**PP1 SCHEDULE OF LOADS :**

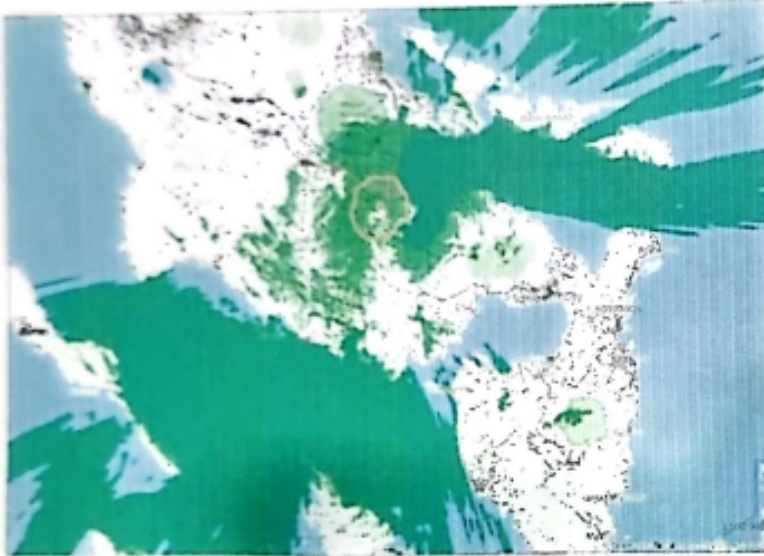
MARK	DESCRIPTION	NO. OF CIRCUIT	SWITCHES				VOLTAGE	WATTAGE	AMPERE PER PHASE			AMPERE PER PHASE				SIZE OF WIRE and CONDUITS			
			S1	S2	S3	S3W			AN	BN	CN	POLE	AT	AF	KABC	WIRE	GROUND	CONDUIT	
1	14-20W LIGHTING	1					230	230	1.22A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
2	15-20W LIGHTING	2					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
3	3-20W LIGHTING	3					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
4	5-C/D	4					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
5	5-C/D	5					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
6	4-C/D	6					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
7	ADU 1.5HP	7					230	1640	1.17A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
8	2-ACU 1.5HP	8					230	2160	9.38 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
9	SPARE	9					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
10	SPARE	10					230	120	.50 A				2P	20	50	10	2x3.5mm,THHN <sup>2</sup>	1-3.5mm,THHN <sup>2</sup>	20mm Ø ENT PIPE
TOTAL							230	5100	15.42A										

**CALCULATION:**

$I_T = 12.30 \text{ A} \times 1.25 = 15.37 \text{ AMPS}$

FEEDER: 2-22mm THHN + 1- 14mm THHN IN 32mm Ø RSC CONDUIT  
MAIN: 60AT, 2P, 230V

## ANTENNA CONFIGURATION



Items	Configuration
Location	13.1228500000 123.7256000000
Antenna height	75
Antenna pattern	Directional
Antenna configuration	30 degrees, 2 stacks 120 degrees, 2 stacks 210 degrees, 8 stacks* 300 degrees, 2 stacks
Antenna tilt	0/3* degrees
Polarization	Horizontal
Ratio of transmitting antenna	30 degrees, 1.0 120 degrees, 1.0 210 degrees, 1.0 300 degrees, 1.0
Type of antenna array	UHF panels 4 dipoles
Total gain (dBd)	14
Tx power (kW)	0.5
ERP (kW)	12.6
Channel	39
Guard interval (μs)	-
Relationship of SFN	-

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

## **I. TECHNICAL COMPONENT ENVELOPE**

### ***Class “A” Documents***

#### **Legal Documents**

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) **in accordance with Section 8.5.2 of the IRR;**

#### **Technical Documents**

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**
- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** Original copy of Notarized Bid Securing Declaration; **and**
- (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (f) Original duly signed Omnibus Sworn Statement (OSS) **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

#### **Additional Documents**

- (g) Preliminary site-specific drawings showing placement and location of all RF systems, ductwork, transmitter equipment and antenna equipment.
- (h) Certificate of authorized distributorship and/or dealership in the Philippines from the manufacturer of the offered transmitter and antenna
- (i) Certificate of Accreditation from the National Telecommunications Commission to engage in the supply of radio transceivers and/or broadcast equipment accessories from the bidder.
- (j) Certification that the bidder has a local service center capable of 24/7, 365 days a year equipment repair and maintenance support and shows the address of the bidders/supplier’s Repair and Maintenance Center and Facility.
- (k) Certification that the bidder is in the line of business of TV Broadcast Transmitter or Antenna equipment supplier, installer and integrator in the Philippines for not less than five (5) years.
- (l) Certification from the manufacturer that it has been engaged in the business of manufacturing ISDB-T/Digital TV transmitters for a minimum of eight (8) years.



- (m) Certification from the manufacturer that it has been engaged in the business of manufacturing TV antennas for a minimum of eight (8) years.
- (n) Certificate of guarantee from the manufacturer for the availability of spare parts and technical support services for the supplied transmitter, and antenna equipment for the next fifteen (15) years
- (o) Certification from the manufacturer indicating the year of two previous models of the offered Transmitter and Antenna System (see General Requirements item 4 under Technical Specifications).
- (p) The bidder shall submit a written document including a glossary/index on where to find the parameters of the Technical Specifications
- (q) List of Installation materials
- (r) A complete equipment schedule of installation materials
- (s) High level/detailed system diagram and Project Schedule for the transmitter and antenna
- (t) Certificate of Site Inspection

Financial Documents

- (u) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

***Class "B" Documents***

- (v) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

**II. FINANCIAL COMPONENT ENVELOPE**

- (w) Original of duly signed and accomplished Financial Bid Form; **and**
- (x) Original of duly signed and accomplished Price Schedule(s).

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

- (y) *[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (z) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

# *Forms*

## **Bid Securing Declaration Form**

*[shall be submitted with the Bid if bidder opts to provide this form of bid security]*

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REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_ ) S.S.

### **BID SECURING DECLARATION** **Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
  - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

## Omnibus Sworn Statement (Revised)

*[shall be submitted with the Bid]*

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

### AFFIDAVIT

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

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

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

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

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

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

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

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

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

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_ day of \_\_\_, 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

***[Letterhead of the Bidder]***

***Statement of ALL ongoing government and private contracts  
(Including contracts awarded but not yet started)***

NAME OF THE PROJECT :

BIDDER's COMPANY NAME :

COMPANY ADDRESS :

Item No.	Name of Contract Date of Contract Contract Duration	Owner's Name and Address/ Party Contracting with Bidder	Kinds of Goods	a) Amount of Contract  b) Value of Outstanding Contracts	Date of Delivery
<b>GOVERNMENT</b>					
	a) b) c)			a) b)	
<b>PRIVATE</b>					
	a) b) c)			a) b) c)	

Instructions:

1. Indicate the correct and complete information required for each contract.
2. Date of Delivery indicates the projected date/s provided in their respective contracts.
3. In case there are no ongoing contracts, put N/A or None.

Submitted by: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

(Printed Name and Signature)

***[Letterhead of the Bidder]***

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***Statement of the bidder’s  
Single Largest Completed Contract (SLCC)***

**NAME OF THE PROJECT** :  
**BIDDER’s COMPANY NAME** :  
**COMPANY ADDRESS** :

<b>Name of Contract</b> <b>Date of Contract</b> <b>Contract Duration</b>	<b>Owner’s Name and Address/ Party Contracting with Bidder</b>	<b>Definition or description of the similar project or major categories of work</b>	<b>Amount of Completed Contract</b>	<b>Date of Delivery</b>

Instructions:

- 1. Indicate the correct and complete information required for each contract
- 2. **Attach End-user’s Acceptance OR Official Receipt(s) OR Sales Invoice issued for the contract.**

Submitted by: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_  
(Printed Name and Signature)

## Bid Form for the Procurement of Goods

*[shall be submitted with the Bid]*

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### BID FORM

Date : \_\_\_\_\_

Project Identification No. : \_\_\_\_\_

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

*[Insert this paragraph if Foreign-Assisted Project with the Development Partner:*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount	Purpose of Commission or gratuity
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_____		
_____		
_____		

(if none, state "None") ]

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

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

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

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

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_



**Price Schedule for Goods Offered from Within the Philippines**  
*[shall be submitted with the Bid if bidder is offering goods from within the Philippines]*

**For Goods Offered from Within the Philippines**

Name of Bidder \_\_\_\_\_ Project ID No. \_\_\_\_\_ Page \_\_\_ of \_\_\_

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit  (col 5+6+7+8)	Total Price delivered Final Destination  (col 9) x  (col 4)

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

NOTE: under Sec 32.2.1 (a) of RA9184 “Unless the Instructions to Bidders specifically allow partial bids, bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. **Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a “0” (zero) or dash (-) for the said item would mean that it is being offered for free to the Government** “

Price Schedule for Goods Offered from Abroad  
*[shall be submitted with the Bid if bidder is offering goods from Abroad]*

***For Goods Offered from Abroad***

Name of Bidder \_\_\_\_\_ Project ID No. \_\_\_\_\_ Page \_\_\_ of \_\_\_

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place  (specify border point or place of destination)	Total CIF or CIP price per item  (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP  (col 4 x 8)

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

NOTE: under Sec 32.2.1 (a) of RA9184 “Unless the Instructions to Bidders specifically allow partial bids, bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a “0” (zero) or dash (-) for the said item would mean that it is being offered for free to the Government“

