



REPUBLIC OF THE PHILIPPINES  
**NATIONAL POWER CORPORATION**  
(Pambansang Korporasyon sa Elektrisidad)

## **BID DOCUMENTS**

**Name of Project :** SUPPLY AND DELIVERY OF FOUR (4) UNITS WIND MONITORING TOWERS

**Project Location :** NPC BLDG., QUEZON AVE. CR. BIR RD., DILIMAN, QUEZON CITY

**Specification No.:** PR NO. HO-PES21-001 (PB2)

**Contents:**

- |              |                                      |
|--------------|--------------------------------------|
| SECTION I    | - INVITATION TO BID                  |
| SECTION II   | - INSTRUCTION TO BIDDERS             |
| SECTION III  | - BID DATA SHEETS                    |
| SECTION IV   | - GENERAL CONDITIONS OF THE CONTRACT |
| SECTION V    | - SPECIAL CONDITIONS OF THE CONTRACT |
| SECTION VI   | - TECHNICAL SPECIFICATIONS           |
|              | PART I – TECHNICAL SPECIFICATIONS    |
|              | PART II – TECHNICAL DATA SHEETS      |
| SECTION VII  | - SCHEDULE OF REQUIREMENTS           |
| SECTION VIII | - BIDDING FORMS                      |

Design and Development Department



# **SECTION I**

# **INVITATION TO BID**





# National Power Corporation

## INVITATION TO BID

### PUBLIC BIDDING – BCS 2021-0756

1. The NATIONAL POWER CORPORATION (NPC), through its approved Corporate Budget of CY 2022 intends to apply the sum of (Please see schedule below) being the Approved Budget for the Contract (ABC) to payments under the contract. Bids received in excess of the ABC shall be automatically rejected at Bid opening.

PR Nos./PB Ref No. & Description	Similar Contracts	Pre-bid Conference	Bid Submission / Opening	ABC/ Amt. of Bid Docs
S2-VOD21-045 / PB220124-NC  Supply of Ten (10) Month Security Services for SPUG Bohol Mini Grid Plants and Installations	Security Services	10 January 2022 9:30 A.M	24 January 2022 9:30 A.M	P 1,597,164.30 / P 5,000.00
S1-TIN22-001 / PB220124-JC  Supply and Delivery of Mechanical Spare Parts for 500kw MAN Genset Model: CXZ-MAN 6I 20/27, Serial No. 10614 of Tingloy DPP, Tingloy, Batangas  * Early Procurement Activity (EPA)	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	10 January 2022 9:30 A.M	24 January 2022 9:30 A.M	P 7,908,300.00 / P 10,000.00
S3-PPP22-001, S3-TAU22-001, S3-SCL22-002, S3-BAD22-001 / PB220124-JC  Supply and Delivery of Various Mechanical Spare Parts for Perkins Generator Sets of SPUG-WMOD Plants  • Mode of Award: Lot Award • Early Procurement Activity (EPA)	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	10 January 2022 9:30 A.M	24 January 2022 9:30 A.M	Total P 7,337,885.00 / P 10,000.00
Package 1: 160kW FG Wilson and 300kW Perkins Generator Set for Pangutaran DPP. Model #: P300H-1 and Engine Serial #: WUU5529N3346855 / Item 6 to 14 for 300kW Perkins Model #: 2206C-E13TAG2 and Engine Serial # TGBF5031U21407X <b>ABC = P 1,386,185.00</b>				

<b>Package 2: 352kW Perkins Genset Engine Model No. 2206C-E13TAG2, Serial No. TGBF5031U21409X of Tandubanak DPP</b> <b>ABC = P 2,791,900.00</b>				
<b>Package 3: 80kW Perkins Calamity Genset Model No. 1106A-70TAG2 SN: PR82603R005865Q and 100kW TPI Genset, Engine Model No. 1006-TAG, Serial No. U957825X of Sacol DPP</b> <b>ABC = P 2,177,000.00</b>				
<b>Package 4: 163kW Perkins Genset, Model No. 2006-TG1, Serial No. 8B27396U88209W of Balimbing DPP</b> <b>ABC = P 982,800.00</b>				
<b>S1-B0922-002 / PB211214-JD (PB2)</b>  Supply and Delivery of Spare Parts for 600kW Cummins, Model No. QST30-G3, Serial No. 37268352 of Power Barge 109  <i>* Early Procurement Activity (EPA)</i>	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Spare Parts / Components / Equipment / for Diesel Generating Sets	10 January 2022 9:30 A.M	24 January 2022 9:30 A.M	P 2,673,973.00 / P 5,000.00
<b>HO-PES21-001 / PB211111-JC00399 (PB2)</b>  Supply and Delivery of Four (4) Units Wind Monitoring Towers at NPC Head Office, Diliman, Quezon City	Supply and delivery of wind monitoring tower or wind resource monitoring system	10 January 2022 9:30 A.M	24 January 2022 9:30 A.M	P 7,056,000.00 / P 10,000.00
<b>Venue: Kañao Function Room, NPC Bldg. Diliman, Quezon City</b>				

2. The NPC now invites bids for Items listed above. Delivery of the Goods is required (**see table below**) specified in the Technical Specifications. Bidders should have completed, within (**see table below**) 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. (Instruction to Bidders).

PR No/s. / PB Ref No/s.	Delivery Period / Contract Duration	Relevant Period of SLCC reckoned from the date of submission & receipt of bids
S1-VOD21-045	Ten (10) Months Contract Duration	Five (5) Years
S1-TIN22-001	Ninety (90) Calendar Days	Ten (10) Years
S3-PPP22-001 & 3 OTHERS	Sixty (60) Calendar Days	Ten (10) Years
S1-B0922-002	One Hundred Twenty (120) Calendar Days	Ten (10) Years
HO-PES21-001	One Hundred Fifty (150) Calendar Days	Five (5) Years

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 5183.

4. Prospective Bidders may obtain further information from National Power Corporation, Bids and Contracts Services Division and inspect the Bidding Documents at the address given below during office hours (8:00AM to 5:00PM), Monday to Friday.
5. A complete set of Bidding Documents may be acquired by interested Bidders from the given address and website(s) and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. Bidding fee may be refunded in accordance with the guidelines based on the grounds provided under Section 41 of R.A. 9184 and its Revised IRR.
6. The National Power Corporation will hold Pre-Bid Conference (see table above) and/or through video conferencing or webcasting which shall be open to prospective bidders.

Only registered bidder/s shall be allowed to participate for the conduct of virtual pre-bid conference. **Unregistered bidders** may attend the Pre-Bid Conference at the Kaňao Room, NPC subject to the following:

- Only a maximum of two (2) representatives from each bidder / company shall be allowed to participate during the virtual pre-bid conference.
  - A "No Face mask / No Full Face Shield / No Entry" policy shall be implemented in the NPC premises. Face mask shall be 3-ply surgical or KN95 mask type.
  - The requirements herein stated including the medium of submission shall be subject to GPPB Resolution No. 09-2020 dated 07 May 2020
  - The Guidelines on the Implementation of Early Procurement Activities (EPA) shall be subject to GPPB Circular No. 06-2019 dated 17 July 2019
7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below; (ii) online or electronic submission before the specified time stated in the table above for opening of bids. 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 Kañao Function Room, NPC Head Office, Diliman, Quezon City and/or via online platform to be announced by NPC. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The National Power Corporation 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 R.A. No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

**Bids and Contracts Services Division,  
Logistics Department**

BIR Road cor. Quezon Avenue

Diliman, Quezon City

Tel Nos.: 8924-5211 and 8921-3541 local 5611

Fax No.: 8922-1622

Email: [bcsd@napocor.gov.ph](mailto:bcsd@napocor.gov.ph) / [bcsd\\_napocor@yahoo.com](mailto:bcsd_napocor@yahoo.com)

12. You may visit the following websites:

For downloading of Bidding Documents: <https://www.napocor.gov.ph/bcsd/bids.php>



**ATTY. ROGEL T. TEVES**

Vice President, Power Engineering Services and  
Chairman, Bids and Awards Committee

# **SECTION II**

# **INSTRUCTION TO BIDDERS**



**SECTION II – INSTRUCTIONS TO BIDDERS****TABLE OF CONTENTS**

<b><u>CLAUSE NO.</u></b>	<b><u>TITLE</u></b>	<b><u>PAGE NO.</u></b>
1.	SCOPE OF BID .....	1
2.	FUNDING INFORMATION.....	1
3.	BIDDING REQUIREMENTS .....	1
4.	CORRUPT, FRAUDULENT, COLLUSIVE, AND COERCIVE PRACTICES.....	1
5.	ELIGIBLE BIDDERS .....	1
6.	ORIGIN OF GOODS .....	2
7.	SUBCONTRACTS .....	2
8.	PRE-BID CONFERENCE .....	2
9.	CLARIFICATION AND AMENDMENT OF BIDDING DOCUMENTS .....	3
10.	DOCUMENTS COMPRISING THE BID: ELIGIBILITY AND TECHNICAL COMPONENTS .....	3
11.	DOCUMENTS COMPRISING THE BID: FINANCIAL COMPONENT .....	3
12.	BID PRICES .....	3
13.	BID AND PAYMENT CURRENCIES .....	4
14.	BID SECURITY.....	4
15.	SEALING AND MARKING OF BIDS .....	4
16.	DEADLINE FOR SUBMISSION OF BIDS .....	5
17.	OPENING AND PRELIMINARY EXAMINATION OF BIDS .....	5
18.	DOMESTIC PREFERENCE.....	5
19.	DETAILED EVALUATION AND COMPARISON OF BIDS.....	5
20.	POST-QUALIFICATION .....	6
21.	SIGNING OF THE CONTRACT .....	6



## **SECTION II – INSTRUCTIONS TO BIDDERS**

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

The National Power Corporation (NPC or NAPOCOR) wishes to receive Bids for the **SUPPLY AND DELIVERY OF FOUR (4) UNITS WIND MONITORING TOWERS**, with identification number **HO-PES21-001**.

The Procurement Project (referred to herein as "Project") is composed of one (1) lot and will be awarded to one (1) Bidder in one complete contract, the details of which are described in Section VI (Technical Specifications).

### **2. Funding Information**

2.1. The GOP through the source of funding as indicated below for CY 2021 in the amount of **₱ 7,056,000.00**.

2.2. The source of funding is the Corporate Operating Budget of the National Power Corporation.

### **3. Bidding Requirements**

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

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

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

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

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

### **5. Eligible Bidders**

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

- 5.2. Foreign ownership exceeding those allowed under the rules may participate when citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines.

The foreign bidder claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos shall submit a certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item/product. The said certification shall be validated during the post-qualification of bidders.

- 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 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 portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed twenty percent (20%) of the contracted Goods.

- 7.2. The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in ITB Clause 5 to the implementing or end-user unit.
- 7.3. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through 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 (NPCSF-GOODS-01 - Checklist of Technical and Financial Documents).
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within Five (5) Years prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.4. The Statement of the bidder's Single Largest Completed Contract (SLCC) (NPCSF-GOODS-03) and List of all Ongoing Government & Private Contracts Including Contracts Awarded but not yet Started (NPCSF-GOODS-02) shall comply with the documentary requirements specified in the **BDS**.

## 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 (NPCSF-GOODS-01 - 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 for **One Hundred Twenty (120) calendar** days from the date of opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

### 15. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must

be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## 16. Deadline for Submission of Bids

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

## 17. Opening and Preliminary Examination of Bids

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

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

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

## 18. Domestic Preference

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

## 19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring 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 VI (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 to one (1) Bidder in one complete contract.

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

committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## **20. Post-Qualification**

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

## **21. Signing of the Contract**

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

# **SECTION III**

# **BID DATA SHEETS**

**SECTION III - BID DATA SHEET**

<b>ITB Clause</b>	
5.3	<p>For this purpose, similar contracts shall refer to supply and delivery of wind monitoring tower or wind resource monitoring system.</p> <p>The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.</p> <p>It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.</p>
7.1	<p>Subcontracting may be allowed on transport, local/non-skilled labor under the supervision of the Bidder. The Bidder shall not be relieved from any liability or obligation that may arise from the performance of the Subcontractor.</p>
10.4	<p>The list of on-going contracts (Form No. NPCSF-GOODS-02) shall be supported by the following documents for each on-going contract to be submitted during <b>Post-Qualification</b>:</p> <ol style="list-style-type: none"> <li>1. Contract/Purchase Order and/or Notice of Award</li> <li>2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date</li> </ol> <p>The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.</p> <p>The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid (Form No. NPCSF-GOODS-03) shall be supported by the following documents to be submitted during <b>Bid Opening</b>:</p> <ol style="list-style-type: none"> <li>1. Contract/Purchase Order</li> <li>2. Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice</li> </ol> <p>The prospective bidders shall declare its Joint Venture partner during the purchase of bid/tender documents. Any single bidder/s who already procured/secured the bidding documents but want to avail the Joint Venture Agreement (JVA) shall inform the BAC in writing prior to the bid opening for records and documentation purposes. Failure to do so shall be a ground for disqualification/non-acceptance of its bid.</p>



10.5	<p>Bidders shall also submit the following requirements in their first envelope, Eligibility and Technical Component of their bid:</p> <ol style="list-style-type: none"> <li>1. Data and Information to be submitted with the Bid/Proposal as specified in Clause TS-8.0 of Section VI - Technical Specifications;</li> </ol> <p>Manufacturer's brochures, manuals and other supporting documents of equipment, materials, hardware and tools proposed by the bidders must comply with the technical specifications of such equipment, materials, hardware and tools. It shall be a ground for disqualification if the submitted brochures, manuals and other supporting documents are determined not complying with the specifications during technical evaluation and post-qualification process.</p> <p>Equipment, materials, hardware and tools proposed by the winning bidder to be supplied, which were evaluated to be complying with the technical specifications, shall not be replaced and must be the same items to be delivered/installed/used during the contract implementation. Any proposed changes/replacement of said items may be allowed on meritorious reasons subject to validation and prior approval by NPC.</p> <ol style="list-style-type: none"> <li>2. Complete eligibility documents of the proposed sub-contractor, if any</li> </ol>
12	The price of the Goods shall be quoted DDP Project Site 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> <ol style="list-style-type: none"> <li>a) The amount of not less 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</li> <li>b) The amount of not less than five percent (5%) of ABC, if bid security is in Surety Bond.</li> </ol>
19.3	<p>The Goods are grouped together in one (1) lot and will be awarded to one (1) Bidder in one complete contract.</p> <p>Partial bid is not allowed. The Goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p> <p>The Bidders bid offer must be within the ABC of the lot.</p> <p>Bid offers that exceed the ABC of the lot or with incomplete price, shall be rejected.</p>
19.5	If the Bidder opted to submit a Committed Line of Credit (CLC), the bidder must submit a granted credit line valid/effective at the date of bidding.
20.1	Additional documents to be submitted during Post-Qualification:

	<p>a. Contract/Purchase Order and/or Notice of Award for the contracts stated in the List of all Ongoing Government &amp; Private Contracts Including Contracts Awarded but not yet Started (NPCSF-GOODS-02);</p> <p>b. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date for all ongoing contracts stated in Form NPCSF-GOODS-02;</p> <p>c. Drawings and documents to be submitted during post-qualification process as specified in Section VI-Technical Specifications;</p>
20.2	The licenses and permits relevant to the Project and the corresponding law requiring it as specified in the Technical Specifications, if any.
21.2	Notice to Proceed.

## **SECTION IV**

# **GENERAL CONDITIONS OF THE CONTRACT**

**SECTION IV – GENERAL CONDITIONS OF CONTRACT****TABLE OF CONTENTS**

<b><u>CLAUSE NO.</u></b>	<b><u>TITLE</u></b>	<b><u>PAGE NO.</u></b>
1.	SCOPE OF CONTRACT.....	1
2.	ADVANCE PAYMENT AND TERMS OF PAYMENT .....	1
3.	PERFORMANCE SECURITY .....	1
4.	INSPECTION AND TESTS .....	1
5.	WARRANTY .....	2
6.	LIABILITY OF THE SUPPLIER .....	2

## 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

- 3.1. 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.
- 3.2. The performance bond to be posted by the Contractor must also comply with additional requirements specified in the **SCC**.

### 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 VI (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 THE CONTRACT**

**SECTION V – SPECIAL CONDITIONS OF CONTRACT**

<b>GCC Clause</b>	
<b>1</b>	<p><b>Delivery and Documents –</b></p> <p>The delivery terms applicable to the Contract is DDP delivered to the project site specified in the technical specifications, in accordance with INCOTERMS. 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 – Technical Specifications. The details of shipping and/or other documents to be furnished by the Supplier are as follows:</p> <p><i>For Goods supplied from within the Philippines</i></p> <p>Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:</p> <ul style="list-style-type: none"> <li>(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</li> <li>(ii) Original and four copies of Supplier's factory test/inspection report;</li> <li>(iii) Original and four copies of the certificate of origin (for imported Goods);</li> <li>(iv) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site;</li> <li>(v) Certificate of Completion/Inspection Report signed by the Procuring Entity's representative at the Project Site;</li> <li>(vi) Original and four copies of the Inspection Receiving Report signed by the Procuring Entity's representative at the Project Site;</li> <li>(vii) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate; and</li> <li>(viii) Documents specified in the Technical Specifications, if any.</li> </ul> <p><i>For Goods supplied from abroad:</i></p> <p>Upon shipment, the Supplier shall notify the Procuring Entity and the insurance company by e-mail the full details of the shipment, including Contract Number, description of the Goods, quantity, vessel, bill of lading number and date, port of loading, date of shipment, port of discharge etc. Upon delivery to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents as applicable with the documentary requirements of any letter of credit issued taking precedence:</p> <ul style="list-style-type: none"> <li>(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</li> </ul>



- (ii) Original and four copies of the negotiable, clean shipped on board bill of lading marked "freight pre-paid" and five copies of the non-negotiable bill of lading ;
- (iii) Original and four copies of Supplier's factory test/inspection report;
- (iv) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site;
- (v) Certificate of Completion/Inspection Report signed by the Procuring Entity's representative at the Project Site;
- (vi) Original and four copies of the Inspection Receiving Report signed by the Procuring Entity's representative at the Project Site;
- (vii) Original and four copies of the certificate of origin (for imported Goods); and
- (viii) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate including all other documents specified in the Technical Specifications, if any.

For purposes of this Clause the Procuring Entity's Representative at the Project Site is Vice President - Power Engineering Services.

#### **Incidental Services –**

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

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

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:

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 (Technical Specifications)** and **Section VII (Schedule of Requirements/Bid Price Schedule)** 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 the period specified in the Technical Specifications.

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

**Packaging –**

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

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

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

Name of the Procuring Entity  
Name of the Supplier  
Contract Description  
Final Destination  
Gross weight

	<p>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>Advance payment not to exceed fifteen percent (15%) of the contract amount shall be allowed and paid within sixty (60) calendar days from effectivity of the contract and upon the submission to and acceptance by the Procuring Entity of an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank. The irrevocable letter of credit or bank guarantee must be for an equivalent amount, shall remain valid until the goods are delivered, and accompanied by a claim for advance payment.</p>

All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.

The terms of payment shall be as follows:

**1) For Supply and Delivery Contracts:**

- (a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.
- (b) On Delivery: Eighty percent (80%) of the Contract Price of the **delivered Goods** shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance payment and the remaining advance payment will be fully recouped from the succeeding claims.
- (c) On Acceptance: The remaining twenty percent (20%) of the Contract Price of the **delivered Goods** shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, if required, the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

**2) For Supply, Delivery, Installation, Test and Commissioning Contracts:**

- (a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.
- (b) On Delivery: Eighty percent (80%) of the price of the **delivered Goods**, excluding price for installation, test and commissioning shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the

	<p><u>SCC</u> provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance payment and the remaining advance payment will be fully recouped from the succeeding claims.</p> <p>(c) On Acceptance: The remaining twenty percent (20%) of the price of the <b>delivered Goods</b> plus price for installation, test and commissioning shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, the Supplier shall have the right to claim payment subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the <u>SCC</u> provision on Delivery and Documents.</p> <p><b>3) For Supply, Delivery, Installation, Test and Commissioning Contracts where Installation, Test and Commissioning prices are included in the supply price:</b></p> <p>(a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.</p> <p>(b) On Delivery: Sixty percent (60%) of the price of the <b>delivered Goods</b> shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the <u>SCC</u> provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance payment and the remaining advance payment will be fully recouped from the succeeding claims.</p> <p>(c) On Acceptance: The remaining forty percent (40%) of the price of the <b>delivered Goods</b> shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, the Supplier shall have the right to claim payment subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the <u>SCC</u> provision on Delivery and Documents</p>
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3.2	<ol style="list-style-type: none"> <li>1. The following must be indicated in the performance bond to be posted by the Contractor:               <ol style="list-style-type: none"> <li>i. Company Name</li> <li>ii. Correct amount of the Bond</li> <li>iii. Contract/Purchase Order Reference Number</li> <li>iv. Purpose of the Bond:                    "To guarantee the faithful performance of the Principal's obligation to undertake <u>(Contract/Purchase Order Description)</u> in accordance with the terms and conditions of <u>(Contract No. &amp; Schedule/Purchase Order No.)</u> entered into by the parties."</li> </ol> </li> <li>2. The bond shall remain valid and effective until the duration of the contract <u>(should be specific date reckoned from the contract effectivity)</u> plus sixty (60) days after NPC's acceptance of the last delivery/final acceptance of the project.</li> <li>3. In case of surety bond, any extension of the contract duration or delivery period granted to the CONTRACTOR shall be considered as given, and any modification of the contract shall be considered as authorized, as if with the expressed consent of the surety, provided that such extension or modifications falls within the effective period of the said surety bond. However, in the event that the extension of the contract duration or delivery schedule would be beyond the effective period of the surety bond first posted, it shall be the sole obligation of the CONTRACTOR to post an acceptable Performance Security within ten (10) calendar days after the contract duration/delivery period extension has been granted by NPC.</li> <li>4. Other required conditions in addition to the standard policy terms issued by the Bonding Company:               <ol style="list-style-type: none"> <li>i. The bond is a penal bond, callable on demand and the entire amount thereof shall be forfeited in favor of the Obligee upon default of the Principal without the need to prove or to show grounds or reasons for demand for the sum specified therein;</li> <li>ii. The amount claimed by the Obligee under this bond shall be paid in full and shall never be subject to any adjustment by the Surety;</li> <li>iii. In case of claim, the Surety shall pay such claim within sixty (60) days from receipt by the Surety of the Obligee's notice of claim/demand letter notwithstanding any objection thereto by the Principal.</li> </ol> </li> </ol>
4	The inspections and tests that will be conducted are specified in the Technical Specifications.

# **SECTION VI**

# **TECHNICAL SPECIFICATIONS**



# **SECTION VI**

## **PART I-TECHNICAL SPECIFICATIONS**



**SECTION VI – TECHNICAL SPECIFICATIONS****TABLE OF CONTENTS**

<b><u>CLAUSE NO.</u></b>	<b><u>TITLE</u></b>	<b><u>PAGE NO.</u></b>
<b>TS-1.0</b>	<b>GENERAL.....</b>	<b>1</b>
<b>TS-2.0</b>	<b>SCOPE OF WORK.....</b>	<b>1</b>
TS-2.1	Wind Monitoring Tower.....	2
TS-2.2	Additional Spare Sensors.....	2
TS-2.3	Tools and Equipment.....	3
TS-2.4	Prepaid Satellite Network Service (Data Communication Subscription).....	3
TS-2.5	Training of NPC Personnel.....	3
<b>TS-3.0</b>	<b>DELIVERY PERIOD AND DELIVERY POINT.....</b>	<b>4</b>
<b>TS-4.0</b>	<b>APPLICABLE CODES AND STANDARDS.....</b>	<b>4</b>
<b>TS-5.0</b>	<b>GENERAL EQUIPMENT DESCRIPTION.....</b>	<b>5</b>
TS-5.1	Data Logger.....	6
TS-5.1.1	General Specification.....	6
TS-5.1.2	Input Channels.....	6
TS-5.1.3	Communication Device.....	6
TS-5.1.4	Power Supply.....	7
TS-5.1.5	Enclosure/Shelter Box.....	7
TS-5.2	Anemometer.....	7
TS-5.3	Wind Vane.....	8
TS-5.4	Temperature Sensor.....	8
TS-5.5	Tubular Tower.....	8
TS-5.5.1	General Specification.....	8
TS-5.5.2	Mounting Booms.....	9
TS-5.5.3	Wind monitoring Tower Layout.....	9
TS-5.6	Sensor Cables.....	11
TS-5.7	Guy Wires and Anchors.....	11
TS-5.8	Grounding, Lightning and Surge Protection.....	11
<b>TS-6.0</b>	<b>SUPPLIERS' / MANUFACTURER'S INSTRUCTION MANUALS.....</b>	<b>12</b>
<b>TS-7.0</b>	<b>PACKING AND SHIPMENT.....</b>	<b>12</b>
TS-7.1	Packing/Crating.....	12
TS-7.2	Shipment/Transport.....	13
<b>TS-8.0</b>	<b>DOCUMENTS TO BE SUBMITTED.....</b>	<b>14</b>
<b>TS-9.0</b>	<b>GUARANTEE.....</b>	<b>15</b>
<b>TS-10.0</b>	<b>MEASUREMENT OF PAYMENT.....</b>	<b>16</b>

**SECTION VI–TECHNICAL SPECIFICATIONS****TS-1.0 GENERAL**

This section specifies the requirements for the supply and delivery of wind monitoring towers equipped with a data logger, calibrated sensors and necessary protections equipment. The wind monitoring towers shall be used to assess possible sites where NPC can install wind turbine(s). The towers shall be erected on the selected areas of the Philippines. The wind monitoring tower shall measure the average wind speed, wind direction and air temperature.

The measured wind speed, wind direction and air temperature shall be examined and evaluated. The gathered data will be used to evaluate the available wind resource at the site and input to prefeasibility/feasibility studies.

All equipment shall be appropriate for their intended purpose and shall comply with all applicable regulations, quality, and dimension standards. All furnished equipment shall be brand new and made from high quality materials and workmanship.

The supplier shall bear full responsibility that all equipment supplied have been fabricated to meet the general specifications specified in this document and full compliant to all industry standard regulations and codes.

Correction of all deviations of the equipment from the specifications and all errors in or resulting from the workmanship of the manufacturer including all costs, expenses and other damages resulting from any such deviations or errors, as well as freight charges, taxes and duties, will be solely for the account of the Supplier.

The supplier shall provide all necessary documents that are specified and listed in this document. Failure to provide and comply with the requirements shall lead to the voiding of contract.

**TS-2.0 SCOPE OF WORK**

The scope of work shall cover the Supply and Delivery of the Wind Monitoring Towers with its components, installation equipment and additional spare sensors. It is not the intent of this specification to specify all technical requirements or to set forth those requirements covered by applicable codes and standards.

The Supplier's scope of work under this document shall generally consist of the following:

- a) Supply and delivery of the wind monitoring tower and its components, installation equipment and tools including the additional spare sensors from point of origin to the delivery point.

- b) Inspection and test of the equipment to ascertain that they are functioning in accordance with the specifications prescribed by this document and guarantee(s).
- c) Provide comprehensive training program with training materials (classroom base and actual hands-on installation) related to the proper installation/dismantling of the wind monitoring tower including the mounting booms and the grounding equipment; proper installation, configuration, and dismantling of the sensors, data logger and sensor cables; and desktop application configuration and data subscription activation.
- d) Supply and delivery of at least 2-year data subscription as described in this document including the Service Level Agreement (SLA)

#### **TS-2.1 Wind Monitoring Tower**

One set of Wind Monitoring Tower shall compose of the following items listed below:

- A tubular tower of at least 30 meters height that is divided into sections together with the guy wires/cables, anchors, and all necessary hardware for tower assembly/installation;
- A data logger with its auxiliaries;
- A communication system/device with dedicated prepaid satellite network subscription for a period of 2 years;
- Rechargeable batteries (i.e. Li-ion, Lead acid, etc.) for the power supply with PV panels to charge the batteries;
- Enclosure/shelter box;
- 5 calibrated industry standard anemometers;
- 2 calibrated industry standard wind vanes;
- 1 calibrated industry standard temperature sensors;
- 5 mounting booms dedicated for anemometers;
- 2 mounting booms dedicated for wind vanes;
- 1 mounting boom (if applicable) for the temperature sensor;
- Pre-cut and pre-terminated shielded cables for each sensor that will connect it to the logger;
- Grounding, lightning and surge protection for the tower and its components.

#### **TS-2.2 Additional Spare Sensors**

In addition to the sensors/items enumerated under TS-2.1, the supplier shall also supply and deliver additional spare sensors as enumerated hereunder:

- 40 units of calibrated industry standard anemometers
- 16units of calibrated industry standard wind vanes
- 9units of calibrated industry standard temperature sensors

All spare sensors shall be the same brand and model and shall have the same specifications. The spare sensors shall be able to interface with the existing data loggers of NPC. Interfacing shall not require special programming or configuration.

### **TS-2.3 Tools and Equipment**

The supplier shall also provide and deliver essential equipment, tools, and materials to safely install, operate, maintain, and decommission the wind monitoring towers.

- 5-unit Wire Band cutter;
- 5-unit Magnetic Level;
- 20 pairs of protective working gloves made from high quality fabric with grips;
- 20 pairs spare protective working gloves made from high quality fabric with grips;

Other tools and equipment that are not mentioned above but are necessary for the successful installation, operation, maintenance and decommission of the wind monitoring tower shall be furnished in the same quantity as the abovementioned items.

The supplier shall provide the size of the said tools and equipment. Further, the supplier shall guarantee that the supplied tools and equipment are appropriate for its intended purpose and fully operational, safe to use and quality made.

### **TS-2.4 Prepaid Satellite Network Service (Data Communication Subscription)**

The supplier shall also provide the prepaid satellite network service (data communication subscription) for all the wind monitoring tower's communication systems. The subscriptions for each tower shall take effect upon the start of the tower's operation and shall have a subscription period of at least two (2) years.

The supplier shall provide appropriate and sufficient data bundle in consideration of NPC's data requirement. In addition, the data bundle shall include and consider health checks or real time monitoring of at least twice a month for the whole period of the subscription to ensure that the data bundle is sufficient for the tower's optimal operation.

### **TS-2.5 Training of NPC Personnel**

The supplier shall provide training to at least five (5) NPC personnel. The duration of the training shall not be more than one (1) week and shall commence two (2) weeks after the delivery. The training shall cover the testing, troubleshooting and installation of the furnished sensors and the installation and decommissioning of the wind monitoring tower.

The training shall provide technical knowledge and hands-on skills about the wind monitoring tower. The training aims to educate NPC personnel with the knowledge and skills on how the sensors work and operate, how to test and troubleshoot the sensors and how to properly install and dismount the sensors without damaging the sensor's contacts and other vital parts.

The training shall also include the knowledge and skills on how to properly assemble the wind monitoring tower together with the mounting booms, how to properly evaluate and layout the guy wire assembly to the wind monitoring tower, how to properly ground and protect the whole wind monitoring tower from damaging electrical discharges and how to safely and properly erect and decommission the wind monitoring tower.

The supplier shall provide all training documentations, manuals and including certificate of completion of the training. NPC shall provide training venue for indoor lectures and workshop however, site appropriate for actual lifting of tower shall be identified and prepared by the Supplier.

#### **TS-3.0 Delivery Period and Delivery Point**

The contract period shall be **ONE HUNDRED FIFTY (150) CALENDAR DAYS** reckoned from the date stated in the Notice to Proceed.

All tower equipment, accessories and spares shall be delivered to NPC Minuyan, San Jose Del Monte, Bulacan.

All sensors, data loggers and spares shall be delivered to NPC Head Office Diliman, Quezon City.

The prepaid subscriptions complete with its auxiliaries (e.g. SIM card, Activation Codes, necessary equipment to establish stable uplink/downlink connection, Service network agreement contract, etc.) shall be delivered together with the items. Data consumption for the subscription shall begin upon the input of the activation code(s) or any trigger functionalities to activate the subscription.

#### **TS-4.0 APPLICABLE CODES AND STANDARDS**

All equipment and materials to be furnished shall be in accordance with, but not limited to, the latest codes and standards issued by the following authorities:

IEC	61400-12-1	Power performance measurements of electricity producing wind turbines
IEC	61400-12-2	Power performance of electricity producing wind turbines based on nacelle anemometry

IEC	62305	Lightning Protection Standard
ISO/IEC	17025	General requirements for the competence of testing and calibration laboratories
ISO	16622	Meteorology – sonic anemometers/thermometers
ASTM	D 5096-02	Standard test method for determining the performance of a cup anemometer or propeller anemometer
ASTM	D 5366-96	Standard test method of measuring the dynamic performance of wind vanes

In addition to the above codes and standards, the Supplier shall comply with all applicable national and local laws, codes, regulations, statutes, and ordinances.

Other internationally recognized standards shall be acknowledged, if in the judgment of NPC, that the equipment is not sub-standard and will meet the specifications stated in this document. If the Bidder considers adopting these said standards, the Bidder shall attach these standards together with his Bid to be accepted. Bidder shall furnish a complete list of codes/standards, and other standards that are not specified in this document, that will be used for approval of NPC.

#### **TS-5.0 GENERAL EQUIPMENT DESCRIPTION**

All furnished equipment must comply with all conditions and technical specifications set by NPC and shall also comply with all the applicable standards stated in **Section TS-4.0 Applicable codes and standards**. If the supplier insists to use other standards that are not stated in the said section, the supplier shall observe and follow the conditions stated in **Section TS-4.0**.

All furnished items shall be brand new and well manufactured. All necessary calibrations and tests shall be performed to all the equipment. Certificates of calibration and Certificate to perform calibrations or test shall be presented after the Bid upon the request of NPC.

**TS-5.1 Data Logger****TS-5.1.1 General Specification**

The data logger shall be capable of recording Wind speed, Wind direction, and Temperature. The logger shall not depend upon complex programming for data collection.

The furnished data logger shall have a sampling interval of 1Hz and configurable averaging intervals of 10, 15, 30, to 60mins. The connectivity of the logger shall be through a built in USB and/or Ethernet port connection.

The Data logger shall have external or removable memory. The external memory shall be able to store data of at least 1GB. All necessary protections against contact with dust, moisture, and other small particles, which could damage the circuitry of the Logger, shall be included. The data logger shall be equipped with internal circuit protection against surges and shall have a means to electrically connect to the grounding system.

**TS-5.1.2 Input Channels**

The Data logger shall have at least five (5) pulse/counter channels and at least three (3) analog channels compatible with a wide selection of industry standard sensors; specifically, anemometers, wind vanes and temperature sensors.

All channels shall have a function to input or to set the calibrated slope and intercept of the connected sensors, whether automatically or manually inputting the parameters to the logger. The logger shall be able to recognize all features and functions of the sensors connected to it.

**TS-5.1.3 Communication Device**

The data logger shall have bidirectional communication. It should be capable of automatic transmitting of data to the end user through communication networks, as well as to receive and respond to signals sent by the end user (e.g. satellite uplink/downlink). NPC personnel shall be able to control, monitor, assess and check the performance of the sensors mounted to the wind monitoring tower remotely.

Synchronization and real time stamping in all logs, events and downloaded data shall be required.

The data logger shall include a function that records and updates NPC, whether automatically or through triggering signals sent by the NPC personnel, regarding all the events and the status of the wind monitoring tower, including sensors' health, battery levels, system errors and log history of downloaded data.

During operation, the recorded data shall be automatically delivered to NPC without issuing any commands to the logger or to the communication device. The logger shall have at least eight (8) active channels recording wind speed, wind direction and air temperature. Each channel shall perform data averaging of at least 10 minutes. Required data transfer size shall be at least 30KB daily, which is equivalent to 11MB yearly. The automatic data retrieval shall be configurable to specify the frequency and the desired time of data transfer by the NPC. It shall be configurable in a daily, weekly or monthly basis.

User-initiated data download or checking of data shall be accessible at any time of the day.

All dedicated software and accessories necessary to optimize the use of the data logger shall be provided by the supplier. The service level agreement (SLA) of the subscription is stated in the guarantee. The supplier shall provide NPC a copy of the terms of services from the network service provider.

#### **TS-5.1.4 Power Supply**

The power supply of the wind monitoring tower shall be able to provide sufficient power to ensure that all equipment, sensors, data logger and communication system will function at its optimum.

The main power supply of the wind monitoring tower shall be rechargeable batteries (i.e. Li-ion, Lead acid, etc.) that shall supply power to the whole wind monitoring tower and will be charged by PV panels at the same time. Whenever the PV panel fails to function properly, rechargeable batteries shall be sufficient to provide power to the whole wind monitoring tower for at least seven (7) days of autonomy.

#### **TS-5.1.5 Enclosure/Shelter Box**

The enclosure/shelter box to be furnished shall be sufficient to house delicate and sensitive equipment such as data logger, communication device, power supply and its accessories. It shall be made of non-corrosive material and designed to resist outdoor weather condition. The enclosure box shall be completed with installation hardware appropriate for mounting on tubular tower, back plate for the ease of installation of power supply and data logger and has a provision for padlock. It shall have a weight not exceeding 9kg and shall have a dimension no larger than 0.5mx0.4mx0.3m.

#### **TS-5.2 Anemometer**

The anemometer shall be a calibrated industry standard 3-cup anemometer.

Calibration and classification of the cup anemometer shall be made according to the procedures of IEC 61400-12-1 and shall be compliant with ASTM D 5096-02.



The anemometer shall have a measurement range of 0m/s to at least 80m/s and shall withstand wind gusts of at least 80m/s. The equipment shall have starting threshold not exceeding of 1m/s.

The anemometer shall be required to have a service life of at least two (2) years upon installation without maintenance.

The anemometer shall be compatible with the data logger and shall have pulse output. All functions and features of the anemometer shall be recognizable by the data logger.

### **TS-5.3 Wind Vane**

The wind vane shall be a calibrated industry standard wind vane. The wind vane shall be calibrated using the wind tunnel calibration test.

The calibration procedure shall be based on IEC 61400-12-1 and/or ISO 16622 and the wind vane shall be compliant with ASTM D 5366-96.

The wind vane shall have a measuring range of 0° to 360° with a dead band of not exceeding 8°. The equipment shall withstand wind gusts of at least 80m/s.

The wind vane shall be required to have a service life of at least two (2) years upon installation without maintenance.

The wind vane shall be compatible with the data logger and shall have analog output. All functions and features of the wind vane shall be recognizable by the data logger.

### **TS-5.4 Temperature Sensor**

The calibration procedures for the temperature sensors shall be based upon the procedures and standards set by the National Institute of Standards and Technology (NIST) or any other equivalent standard.

The temperature sensor shall be required to have radiation shielding. The measurement range is at least -15°C to 60°C.

The temperature sensor shall be required to have a service life of at least two (2) years upon installation without maintenance.

The temperature sensor shall be compatible with the data logger. All functions and features of the temperature sensor shall be recognizable by the data logger.

### **TS-5.5 Tubular Tower**

#### **TS-5.5.1 General Specification**

The furnished tower shall be made from high quality materials and the tower manufacturer shall be ISO 9001 certified.

The tower shall be classified as a tubular tower and shall be made of galvanized steel. The outside diameter shall be at least six (6) inches but not more than ten (10) inches. The tubular tower shall be cut into sections having length of at least two (2) meters but not more than two and a half (2.5) meters and shall be packaged together to facilitate easy handling/transport. All other elements of the tower shall also be galvanized steel.

The tubular tower shall be supported by guy wires/cables in four directions, with respect to the base of the tower, and shall be attached to the tower at 4 points.

The guy wires should be attached to the tower in the following levels:

- 1<sup>st</sup> guy wire assembly – 10-meter level
- 2<sup>nd</sup> guy wire assembly – 15-20-meter level
- 3<sup>rd</sup> guy wire assembly – 20-25-meter level
- 4<sup>th</sup> guy wire assembly – 28-30-meter level

Figure 1.0 in section TS-5.5.3 **Wind monitoring Tower Layout** shows the schematic layout of a wind monitoring tower supported by guy wires connected to the tower and the earth anchors in one direction.

If the supplier provides a tubular tower that has a different guy wire support attachment points/levels other than what is stated above, the supplier shall provide in full detail the guy wire assembly drawings and reaction forces of the tower. The drawings shall highlight the maximum loads due to its dead weight and wind forces that the wind monitoring tower and the guy wire assembly will experience upon installation and operation.

The supplier shall also submit drawings of the grounding and lightning protection layout of the wind monitoring tower. The drawing design shall be evaluated by NPC for compliance and approval.

#### **TS-5.5.2 Mounting Booms**

The Mounting Boom length shall be at least six (6) times the outside diameter of the furnished tubular tower but shall not be more than four (4) meters long and can easily be installed to the tower.

The mounting booms shall be made of galvanized steel. If the mounting booms are not manufactured from the same material as the tubular tower, the mounting booms shall be light-weight, durable can be easily installed to the tower.

#### **TS-5.5.3 Wind monitoring Tower Layout**

All sensors shall be mounted on their dedicated booms. The sensors and the data logger shall be placed in different points on the tower:

- Two (2) anemometers and one (1) wind vane shall be placed at the top level of the tower.

- Two (2) anemometers and one (1) wind vane shall be placed in the 20-m level on the tower.
- One (1) anemometer shall be placed in the 10-m level on the tower.
- One (1) temperature sensor, the data logger and other equipment shall be placed within the 3-5m level above the base of the wind monitoring tower.

All sensors will be connected to the data logger by shielded sensor cables. The lightning protection device shall be installed to protect all susceptible components of the wind monitoring tower.

The wind monitoring tower shall be supported by guy wires. The guy wires shall be connected to at least 4 points to the tower. The guy wire shall be placed in four directions around the wind monitoring tower, within 15-20 meters away from the base of the tubular tower.

All guy wires shall be made from durable and heavy-duty materials that can support the whole weight of the operational wind monitoring tower and the tower's strongest wind loadings. For each guy wires/cables the supplier shall put into consideration the possibility of having slopes of 10° in the terrain. These will ensure that the length of the guy wires will be sufficient to safely install the wind monitoring tower.

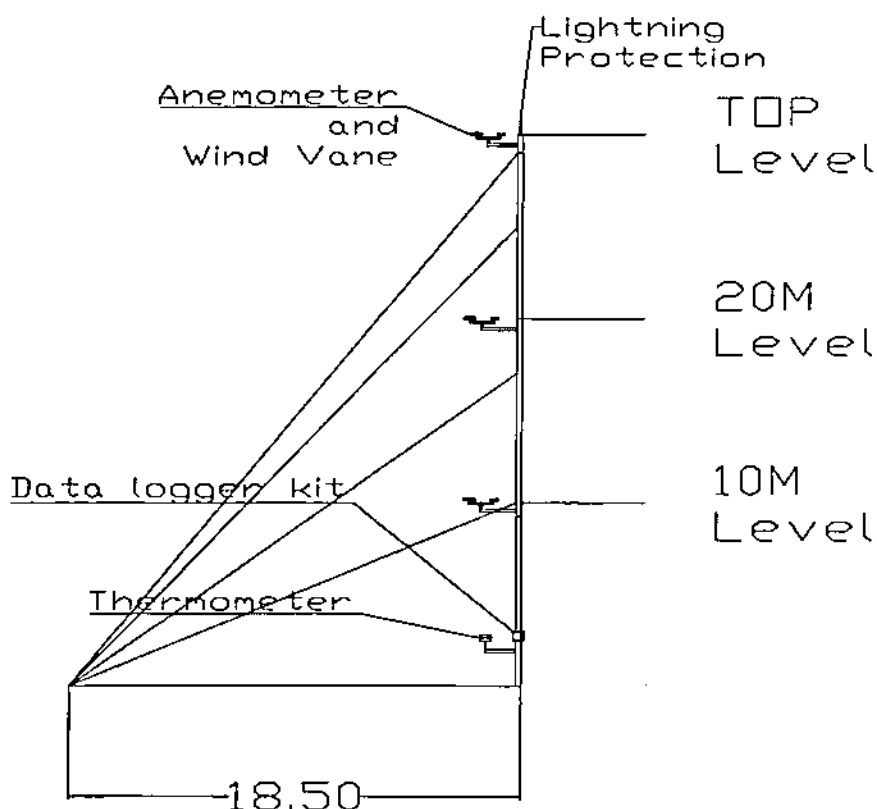


Figure 1.0 Schematic Layout of the wind monitoring tower assembly

## Sensor Cables

All furnished sensors shall include their dedicated sensor cables. The sensor cable shall include shielding protection with drain wires that will prevent electromagnetic interferences. Contacts of all sensor cables shall be prefabricated, pre-terminated with terminal lugs for easy connection to the sensors and to the logger.

All sensor cables shall be suitable for a tropical environment. The cables shall be supplied in pre-cut lengths that shall be enough for each sensor to fully function and to connect each sensor to the data logger to provide readable and recordable data. The lengths of each sensor cables shall be based on TS-5.5.3 Wind monitoring Tower Layout.

The supplier shall ensure that all furnished sensor cables shall be sufficient and appropriate for each sensor.

## Guy Wires and Anchors

The supplier shall provide at least five (5) screw-in earth anchors, unless if specified by NPC the type of anchors to be furnished shall be changed. All anchors shall be rugged and galvanized. The screw-in earth anchors shall have a screw diameter of at least six (6) inches and rod diameter of at least half (1/2) inch with overall length of at least sixty-five (65) inches.

The supplier shall furnish galvanized steel guy wires/cables made from high strength steel. The size of the guy wire shall be three-sixteenth (3/16) inch diameter by 7 x 7 cables. All guy wires shall be easy to handle specially during erection of the wind monitoring tower. The length of each guy wire shall be based on from **TS-5.5.3 Wind monitoring Tower Layout**.

## Grounding, Lightning and Surge Protection

The wind monitoring tower shall be fully grounded to prevent electrostatic discharges that will damage the sensors and the data logger. The supplier shall provide proper lightning and surge protection to all the wind monitoring towers.

The supplier shall provide surge protection to the logger wiring connection that will protect the data logger and sensors from electrostatic discharges.

The supplier shall provide copper clad lightning rods that shall provide protection to the sensors and solid copper ground cables that shall attach the lightning rod to the grounding rod driven into the earth.

**TS-6.0 SUPPLIERS'S / MANUFACTURER'S INSTRUCTION MANUALS**

All instruction Manuals shall be provided by the supplier. The Manuals shall bear all necessary information about the equipment including information about:

- Trainings
- Installations
- Configurations
- Troubleshooting
- Repair and Maintenance

Electronic and Hard copies of the manual shall be required upon delivery, or unless specified by NPC. Electronic copies shall be in PDF format. Drawings and schematics shall be in AutoCAD format.

The supplier shall provide at least two (2) copies of each instruction manuals for all equipment. For hard copy manuals, robust and oil-resistant covers and binders shall be used for each manual.

**TS-7.0 PACKING AND SHIPMENT****TS-7.1 Packing/Crating**

The Supplier shall affect proper packing/crating to ensure that equipment and components are adequately protected from damage during shipment and subsequent storage. Utmost care shall be observed in packing/crating delicate equipment and electronic devices such as the sensors and sensor cables, installation equipment, the data logger, the communication apparatus, and the power supply.

Covers, straps or fasteners shall not be welded to equipment.

Equipment shall be adequately supported for shipment. All loose parts shall be crated or boxed for shipment and appropriately identified. Where shipment is braced internally, it shall be marked conspicuously.

All large and heavy shipping units shall have suitable skids for moving. Crating shall also be adequate for lifting with slings. If location of slings is critical, these locations shall be marked accordingly.

As the shipment may be left in open storage at the designated place, the Supplier shall ensure that the delivered items have appropriate protection from water and other elements. All delicate electrical and mechanical parts susceptible to damage from moisture shall be packed in hermetically sealed container or other approved containers within their packing cases. All sealed packages shall include bags of silica or equally moisture absorbing chemical.

All equipment belonging to the same system/skid shall be properly marked and packed in the same crate as much as practicable.

All spare parts shall be packed in a sealed container including special and standard tools in their separate sealed toolboxes.

All packages, crate boxes, drums, bags, bundles, or other containers or any loose pieces shall carry the following identification marks on the two (2) sides in black with a stencil proof ink or paint by means of block letters not less than 30 mm high, i.e.

#### NATIONAL POWER CORPORATION

CONTRACT NO.	:	_____
ITEM NO.	:	_____
PORT OF DISCHARGE	:	_____
DESCRIPTION	:	_____
OF CONTENT	:	_____
NET WEIGHT	:	_____ kgs.
GROSS WEIGHT	:	_____ kgs.
DIMENSION	:	_____ m <sup>3</sup>
CRATE NO.	:	_____

All packages shall be forwarded with a copy of packing list placed inside the package and another copy thereof contained in a waterproof envelope placed outside the package. The packing list shall give all information on the package such as package no., packing appearance, net weight, gross weight, dimension, measurement, and description of the equipment including storage and handling instructions with descriptions for periodic inspection and/or storage maintenance to ascertain that no deterioration will occur during storage.

The Supplier shall employ methods that will warrant safe delivery of equipment to its destination, with careful consideration given to the type of commodity, method of transportation, destination, and storage facilities at point of destination.

#### **TS-7.2 Shipment/Transport**

The Supplier shall be responsible for the transportation of the equipment, materials and supplies required under this Specification and shall ensure that they are safely and timely delivered, as stated in section **TS-3.0 Delivery Period/Contract Duration**.

The Supplier shall ship the materials and equipment on clear commercial bill of lading and the cost of all freight, insurance, shipping, handling, and road transport charges shall be included in the Bid Price.

Upon arrival of equipment and materials at site, NPC and the Supplier or their authorized representatives, shall jointly verify the plant equipment to be stored at site following the steps below:

- a) Inspection and verification of the packing list;
- b) Visual inspection of the condition of the packing and its surfaces; and
- c) Partial opening of the crates and plastic sheet protection of the items and equipment to verify the content and its physical condition and to check pilferage or damage during shipment and storage.

A record shall be prepared carefully noting all eventual shortages, defects or damages, signed by the Supplier and concurred by NPC. All shortages and damages noted shall be immediately replaced by the Supplier at his own cost and shall ensure the timely delivery of replacement without affecting the agreed overall project implementation schedule.

#### **TS-8.0 DOCUMENTS TO BE SUBMITTED**

1. To be submitted with the bid for evaluation are as follows:
  - a. Completely filled-out Technical Data Sheet.
2. To be submitted during the post qualification:
  - a. Completely filled-out Technical Data Sheet.
  - b. Manufacturer's Brochures/Catalogues which contain detailed information/data to adequately support the Supplier's submitted and filled out Technical Data Sheet.
  - c. Copies of manufacturer's and equipment certifications as required
  - d. List of all Items to be supplied and their intended use, including equipment and tools for the installation and erection of the tower.
3. To be submitted before or upon delivery:
  - a. Copies of the Certificate of Calibration of all Sensors
  - b. Certificate of Accreditation of testing laboratory to the relevant standards for the calibration of the sensors. These certifications shall verify that the manufacturer or a 2nd/3rd party individual or entity is competent to execute tests for calibration to the equipment.
  - c. Detailed assembly and installation drawings.
  - d. Certificate of Warranty for each item and equipment shall be 2 years after the acceptance of each items and equipment included in each batch or shipment against factory defects/workmanship.
  - e. Certificate of origin from the manufacturer.
  - f. ISO 9001 certificate of the tower manufacturer.
  - g. Subscription of contract for data communication.

**TS-9.0 GUARANTEE**

In order to assure that manufacturing defects of all equipment shall be corrected and/or replaced by the supplier as the case may be, a warranty security shall be required from the Supplier. The supplier shall guarantee that he will repair, and/or replace at his own expenses, equipment, and devices, against defect in factory, manufacturing, design, and materials for at least two (2) years after last delivery and final acceptance of the equipment. The supplier guarantees that when the equipment and/or material are placed in operation and/or use, it will perform in the manner as set forth in the contract.

All furnished equipment for the safe installation of the wind monitoring tower shall also be covered by this guarantee. The supplier shall provide a list of all equipment and the purpose of the equipment. Instruction and operating manuals for the equipment used for the installation shall also be included.

All damages to the wind monitoring tower and its components due to the failure of equipment for installation and erection shall be liable to the supplier. All expenses for the repair and/or replacement of the damaged tower parts and equipment due to the failure of the tools and equipment used for installation shall be full responsibility of the supplier.

The guarantee shall also cover that the training of NPC personnel shall tackle all knowledge and skills on how to safely install and decommission the wind monitoring tower and components. The supplier shall be the one to judge the trainees if they pass or fail the training program. The supplier shall ensure that the trainees have acquired all the knowledge and all necessary skill sets to safely install the furnished wind monitoring tower together with all its components.

All provided documents by the supplier (i.e., schematics, drawings, etc.) shall also be covered by this guarantee. All presented documents shall be authentic and certified true copies. Each document shall be in full detail and with accordance to the conditions specified by NPC.

The guarantee shall also cover the Service Level Agreement (SLA) of the prepaid data communication subscription. The supplier shall provide the communication system with full prepaid data service subscription for a period of at least two (2) years upon installation of each wind monitoring tower. The supplier shall establish all procedures to create the wireless service connection to the wind monitoring tower until the data communication subscription is ready for operation. The supplier shall ensure that the subscriptions for each tower will provide 24/7 service to the wind monitoring tower communication system.

The supplier shall also provide all guidelines and procedures to follow in the event that the wind monitoring tower loses its network connection (e.g. person to contact and give assistance to NPC when the network connection is having down time or connection to the wind monitoring tower cannot be established). All guidelines, procedures and data consumption rates for every activity or command issued shall be listed, explained and submitted to NPC.



**TS-10.0 MEASUREMENT OF PAYMENT**

NPC shall pay the supplier in a per delivery basis. Payment for the delivered items and services shall be based on the quantity of the items supplied to NPC. The amount of payment will be made at the corresponding unit price for the items and services in the Bid Price Schedule. Only upon the acceptance of the items and services, the supplier can collect his payments from NPC.

## **SECTION VI**

# **PART II-TECHNICAL DATA SHEETS**

**DOCUMENTS TO BE SUBMITTED DURING THE  
BID OPENING**

**DOCUMENTS TO BE SUBMITTED DURING THE  
POST QUALIFICATION**



## **SECTION VI**

# **PART II-TECHNICAL DATA SHEETS**

**DRAWINGS AND DOCUMENTS TO BE SUBMITTED  
DURING THE BID**



**PART II – TECHNICAL DATA SHEET****Documents to be Submitted during the Bid Opening****TECHNICAL REQUIREMENTS**

1. The Bidder is required to provide all the information required under the column "Supplier's Data". Although not given by NPC, the Supplier's Data shall be based on the International Standard.
2. NPC's requirements are indicated below. The Supplier shall indicate their data corresponding to the said NPC requirements to facilitate evaluation of Supplier's compliance to the specifications.
3. All data and information specified in the requirements shall be in English language.
4. Non-compliance with the requirements shall be ground for disqualification.

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**PART II – TECHNICAL DATA SHEET****Documents to be Submitted during the Bid Opening****1. DATA LOGGER**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Place of Manufacture	By Supplier	

**2. ANEMOMETERS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Place of Manufacture	By Supplier	

**3. WIND VANE**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Place of Manufacture	By Supplier	

**4. TEMPERATURE SENSOR**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Place of Manufacture	By Supplier	

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**5. TOWER**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Type of tower	Tubular Tower	
2.	Erected height	at least 30 meters	
3.	Manufacturer	By Supplier	
4.	Model	By Supplier	
5.	Place of Manufacture	By Supplier	

**6. MANUFACTURER'S INFORMATION**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Name of Manufacturer	Any Manufacturer	
2.	Country of Origin	By Supplier	
3.	ISO certificate of tower manufacturer	ISO 9001	
4.	Warranty Period	at least two (2) years	
5.	Manufacturing Experience of Towers for not less than: (years) <sup>3</sup>	Five (5)	

<sup>3</sup> Experience less than what is required will be ground for rejection of materials being offered.

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# **SECTION VI**

## **PART II-TECHNICAL DATA SHEETS**

**DOCUMENTS TO BE SUBMITTED DURING THE  
POST QUALIFICATION**



## **PART II - TECHNICAL DATA SHEETS**

### **Documents to be Submitted during the Post Qualification**

#### **Technical Requirements**

1. The Bidder shall complete and submit this document during the post-qualification which shall serve as reference for the review and approval of brochure/drawings during implementation stage. The Bidder shall use additional sheets as necessary for any other additional information following the format shown herein or by reproducing the same.
2. The Bidder is required to provide all the information required under the Column "Supplier's Data". Although not given by NPC, the Supplier's Data shall be based on the International Standard.
3. NPC's requirements are indicated below. The Supplier shall indicate their data corresponding to the said NPC requirements to facilitate evaluation of Supplier's compliance to the specifications. The data required are technical features and characteristics of the Equipment to be provided by the bidder which shall at least be equal or superior to NPC's requirements.
4. The bidder shall provide copies of the manufacture's and equipment certifications as listed in this document
5. Non submission of the required documents shall be a ground for disqualification.



**1. DATA LOGGER**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	

**1. DATA LOGGING FUNCTIONALITIES**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Parameters to Record	Wind speed, Wind direction, Air Temperature	
2.	Sampling Interval	1Hz	
3.	Averaging interval	10, 15, 30 to 60mins (Configurable)	
4.	Storage medium (removable/external)	At least 1GB memory storage	
5.	Connectivity for local configuration	USB and/or Ethernet	
6.	Protection devices	Grounding, Lightning and Surge Protection	

**2. INPUT CHANNEL REQUIREMENTS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Number of Pulse/Counter Channels	At least 5 Pulse/Counter Channels	
2.	Number of Analog Channels	At least 3 Analog Channels	
3.	Slope and Intercept Input	Required	

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**3. COMMUNICATION REQUIREMENTS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Automated/Manual data delivery via Satellite network	Required	
2.	Two-way communication with the data logger on site	Required	
3.	Event and status reporting	Required	
4.	Time synchronization	Required	
5.	Prepaid satellite data service subscription for the Philippines	Required	
6.	Dedicated software and accessories	Required	
7.	Prepaid satellite subscription Period	At least two (2) years	

**4. POWER SUPPLY REQUIREMENTS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Rechargeable Batteries	Yes	
2.	PV Panels	Yes	
3.	Type of R-Batteries	As stated in Sec VI – TS – 5.1.4	
4.	Battery autonomy	At least 7 days	
5.	Power requirement	As stated in Sec VI – TS – 5.1.4	

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**2. ANEMOMETERS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Calibration and Classification <sup>1</sup>	Compliant to IEC 61400-12-1 and ASTM D 5096-02	
4.	Type of Anemometer	3-cup anemometer	
5.	Measurement range	0 to at least 80m/s	
6.	Starting threshold	Not higher than 1m/s	
7.	Survival wind speed (gust)	At least 80m/s	
8.	Service life	at least 2 year	

**3. WIND VANE**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Calibration and Classification <sup>1</sup>	Compliant to IEC 61400-12-1 and/or ISO 16222 and ASTM D 5366-96	
4.	Measurement range	0 deg to 360 deg	
5.	Dead band	Not more than 8 deg	
6.	Survival wind speed (gust)	At least 80m/s	
7.	Service life	at least 2 year	

<sup>1</sup> Sample Certificates shall be submitted during post qualification and the original certificates of the furnished items shall be provided upon delivery.

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**4. TEMPERATURE SENSOR**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Calibration <sup>2</sup>	Compliant to NIST standard testing procedures	
4.	Radiation Shielding	Required	
5.	Measurement range	at least-15 deg C to 60 deg C	
6.	Service life	at least 2 year	

**5. TOWER**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Manufacturer	By Supplier	
2.	Model	By Supplier	
3.	Type of tower	Tubular Tower	
4.	Diameter	at least 6in but not more than 10in	
5.	Erected height	at least 30 meters	
6.	Material	Galvanized Steel	
7.	Section length	At least 2m but not more than 2.5m	

<sup>2</sup> Sample Certificates shall be submitted during post qualification and the original certificates of the furnished items shall be provided upon delivery.

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**6. MOUNTING BOOM**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Length	At least 6 OD of tower and not more than 4m	
2.	Materials	Galvanized Steel	

**7. SENSOR CABLE**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Shielding	Required	
2.	Cable type	Dedicated to the sensors	
3.	Length	As stated in <b>Sec IV - S-5.5.3</b>	
4.	Contacts	Prefabricated, pre-terminated with terminal lugs easy to connect	

**8. GUY ANCHORS**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Number of Anchor	at least 5	
2.	Type of Anchor	Screw-in	
3.	Screw diameter	at least 6 inches	
4.	Rod diameter	at least 1/2 inch	
5.	Overall Length of Anchor	at least 65 inches	
6.	Material	Galvanized Steel	

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**9. GUY WIRE**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Size	3/16in diameter__	
2.	Type of Guy Wire	7X7 guy wire	
3.	Material	Galvanized Steel	
4.	Length	As stated in <b>Sec IV – TS-5.5.3</b>	
5.	Number of guy points attached to the tower	at least 16	

**10. TOOLS, EQUIPMENT AND SPARE PARTS TO BE SUPPLIED<sup>3</sup>**

ITEM	DESCRIPTION	NPC REQUIREMENT	SUPPLIER'S DATA
1.	Calibrated industry standard anemometers	40 units	
2.	Calibrated industry standard wind vanes	16 units	
3.	Calibrated industry standard temperature sensors	9 units	
4.	Wire Band Cutter	5 units	
5.	Magnetic Level	5 units	
6.	Protective Working Gloves with grip	20 pairs	
7.	Spare Protective Working Gloves with grip	20 pairs	

**Note:** Other tools and equipment that are not mentioned here but are necessary for the successful installation, operation, maintenance and decommission of the wind monitoring tower shall be furnished in the same required quantity as the abovementioned items. **(USE EXTRA SHEET)**

<sup>3</sup> Refer to Section VI, TS – 2.3

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Name & Signature of Representative

\_\_\_\_\_  
Designation

# **SECTION VII**

# **SCHEDULE OF REQUIREMENTS**

## SECTION VII-SCHEDULE OF REQUIREMENTS

PR NO. HO-PES21-001

**SECTION VII - SCHEDULE OF REQUIREMENTS**  
**BPS.1 - Breakdown of Prices**  
**SUPPLY AND DELIVERY OF FOUR (4) UNITS WIND MONITORING TOWERS**

Item No.	Description of Work or Materials	QTY.- UNIT	* C O D E	UNIT PRICE FOR GOODS AND RELATED SERVICES TO BE SUPPLIED FROM ABROAD				UNIT PRICE FOR GOODS AND RELATED SERVICES TO BE SUPPLIED FROM WITHIN THE PHILIPPINES			TOTAL PRICE	
				Unit Price of Goods or Services Foreign Currency ( )**	Import Duties & other Levies Imposed by Phil. Govt. (Phil. Peso)	Value Added Tax and other Taxes Imposed by Phil. Govt. (Phil. Peso)	Local Transport from Port to Delivery Site *** (Phil. Peso)	Unit Price of Goods or Services (Phil. Peso)	Value Added Tax and other Taxes Imposed by Phil. Govt. (Phil. Peso)	Local Transport to Delivery Site *** (Phil. Peso)	Forex Currency (E x C)	Local Currency Portion (Phil. Peso) ((F+G+H) x C) or ((I+J+K) x C)
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
A.	WIND MONITORING TOWERS AND OTHER WORKS/SUPPLY/SERVICES											
A.1	Wind Monitoring tower complete with ancillary equipment and attachments as described in Section VI – TS 2.1	4 Set										
A.2	Additional Spare Sensors as described in Section VI TS-2.2:											
a.	Calibrated industry standard Anemometers;	40 Set										
b.	Calibrated industry standard Wind Vanes;	16 Set										
c.	Calibrated industry standard Temperature Sensors;	9 Set										
A.3	Tools and Equipment for WMT Installation including their auxiliaries as described in the Technical Specifications (TS-2.3) and Technical Data Sheet (TDS-PQ-10)	1 Lot										
A.4	Data Communication Subscription* as stated in Section TS-2.4 Prepaid Satellite Network Service (Data Communication Subscription)	4 Set										
A.5	Training at Plant Site for at least five (5) NPC Personnel as described in the Technical Specifications	1 Lot										
SUB-TOTAL A		(Amount in Words)										

<b>GRAND TOTAL</b>	(Amount in Words)		
--------------------	-------------------	--	--

Notes: Final delivery site of all equipment/materials shall be at the plant site stated above

if there is a discrepancy on the numbers/units/sets/quantities between or among the technical provision and Schedule of Requirements (SOR), SOR shall prevail

▪ Bidders shall enter a code representing the Country of Origin of all imported equipment, materials and accessories

\*\* Cost of equipment, freight, insurance, etc. up to Phil. port of entry. Refer to ITB-16.1(b)

\*\*\* Unit Price for Local Transportation, insurance and other local costs incidental to delivery of the goods from the Phil port of entry or Local Manufacturing Plant to final delivery site

▲ Cost of the Data Subscription for the wind monitoring tower, each tower shall have a subscription period of at least two (2) years.

Code	Country of Origin
US	United States

Name of Bidder

Name and Signature of Authorized Representative

Designation





# **SECTION VIII**

# **BIDDING FORMS**



## **SECTION VIII – BIDDING FORMS**

### **TABLE OF CONTENTS**

NPCSF-GOODS-01	- Checklist of Technical and Financial Envelope Requirements for Bidders
NPCSF-GOODS-02	- List of all Ongoing Government & Private Contracts Including Contracts Awarded but not yet Started
NPCSF-GOODS-03	- Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid
NPCSF-GOODS-04	- Computation of Net Financial Contracting Capacity (NFCC)
NPCSF-GOODS-05	- Joint Venture Agreement
NPCSF-GOODS-06a	- Form of Bid Security : Bank Guarantee
NPCSF-GOODS-06b	- Form of Bid Security : Surety Bond
NPCSF-GOODS-06c	- Bid Securing Declaration Form
NPCSF-GOODS-07a	- Omnibus Sworn Statement (Sole Proprietorship)
NPCSF-GOODS-07b	- Omnibus Sworn Statement (Partnership/Corporation/ Cooperative/Joint Venture)
NPCSF-GOODS-08	- Bid Letter
Sample Form	- Bank Guarantee Form for Advance Payment
Sample Form	- Certification from DTI as Domestic Bidder

Standard Form No: NPCSF-GOODS-01

**Checklist of Technical & Financial Envelope Requirements for Bidders**

**A. THE 1<sup>ST</sup> ENVELOPE (TECHNICAL COMPONENT) SHALL CONTAIN THE FOLLOWING:**

**1. ELIGIBILITY DOCUMENTS**

**a. (CLASS A)**

➤ Any of the following:

- PhilGEPS Certificate of Registration and Membership under Platinum Category in accordance with Section 8.5.2 of the IRR;

**OR:**

- The following updated and valid Class “A” eligibility documents enumerated under “Annex A” of the Platinum Membership:
  - Registration Certificate from the Securities and Exchange Commission (SEC) for corporations, Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives;
  - Mayor’s/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas.  
In cases of recently expired Mayor’s/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit, provided that the renewed permit shall be submitted as a post qualification requirement in accordance with Section 34.2 of the Revised IRR of RA 9184.
  - The prospective bidder’s audited financial statements, showing, among others, the prospective bidder’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.
  - Tax clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR or as stated under GPPB NPM-039-2014, for Non-Resident Foreign Corporation (NRFC) and Non-Resident Alien Not Engaged in Trade or Business (NRANETB), a Delinquency Verification Certificate may be submitted as a form of Tax Clearance;

**OR:**

- A combination thereof
- Statement of all its ongoing government and private contracts if any, whether similar or not similar in nature and complexity to the contract to be bid (NPCSF-GOODS-02)
- The Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least 50% of the ABC (NPCSF-GOODS-03) complete with the following supporting documents:

1. Contract/Purchase Order

2. Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice

*(The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.*

*It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.)*

Standard Form No: NPCSF-GOODS-01

- Duly signed computation of its Net Financial Contracting Capacity (NFCC) at least equal to the ABC (NPCSF-GOODS-04) or a Committed Line of Credit (CLC) at least equal to ten percent (10%) of the ABC, issued by a Universal or Commercial Bank; If the Bidder opted to submit a Committed Line of Credit (CLC), the bidder must submit a granted credit line valid/effective at the date of bidding.

**b. (CLASS B)**

- For Joint Venture (if applicable), any of the following:
  - Valid Joint Venture Agreement (NPCSF-GOODS-05)  
**OR**
  - Notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA, if awarded the contract
- Certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item/product *(For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos)*

**2. Technical Documents**

- Bid Security, any one of the following:
  - Bid Securing Declaration (NPCSF-GOODS-06c)  
**OR**
  - Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank – 2% of ABC;  
**OR**
  - Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: (NPCSF-GOODS-06a) - 2% of ABC;  
**OR**
  - Surety Bond callable upon demand issued by a reputable surety or insurance company (NPCSF-GOODS-06b) - 5% of ABC, with
    - Certification from the Insurance Commission as authorized company to issue surety
- Omnibus Sworn statement using any of the following form:
  - NPCSF-GOODS-07a - for Sole Proprietorship;  
**OR**
  - NPCSF-GOODS-07b - for Partnership/Corporation/Cooperative/Joint Venture with the following supporting documents:
    - In the case of corporations, board/partnership resolution or secretary's certificate, granting full powers to the authorized signatory;
    - For Joint-Venture, a resolution, duly signed by all the joint-venture partners granting full powers to the authorized signatory

Standard Form No: NPCSF-GOODS-01

- Drawings and Documents to be submitted with the Bid/Proposal as specified in Clause TS-8.0 of Section VI - Technical Specifications;
- Complete eligibility documents of the proposed subcontractor, if any

**B. THE 2<sup>ND</sup> ENVELOPE (FINANCIAL COMPONENT) SHALL CONTAIN THE FOLLOWING:**

- Duly signed Bid Letter indicating the total bid amount in accordance with the prescribed form (NPCSF-GOODS-08)
- Duly signed and completely filled-out Schedule of Requirement (Section VII) indicating the unit and total prices per item and the total amount in the prescribed Price Schedule form.
- For Domestic Bidder claiming for domestic preference:
  - Letter address to the BAC claiming for preference
  - Certification from DTI as Domestic Bidder in accordance with the prescribed forms provided

**CONDITIONS:**

1. Each Bidder shall submit one copy of the first and second components of its Bid. NPC 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.
2. In the case of foreign bidders, the eligibility requirements under Class "A" Documents (except for Tax Clearance) may be substituted by the appropriate equivalent documents, if any, issued by the country of the foreign bidder concerned. The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and 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.

These documents shall be accompanied by a Sworn Statement in a form prescribed by the GPPB stating that the documents submitted are complete and authentic copies of the original, and all statements and information provided therein are true and correct. Upon receipt of the said documents, the PhilGEPS shall process the same in accordance with the guidelines on the Government of the Philippines – Official Merchants Registry (GoP-OMR).
3. A Bidder not submitting bid for reason that his cost estimate is higher than the ABC, is required to submit his letter of non-participation/regret supported by corresponding detailed estimates. Failure to submit the two (2) documents shall be understood as acts that tend to defeat the purpose of public bidding without valid reason as stated under Section 69.1.(i) of the revised IRR of R.A. 9184.

Standard Form Number: NPCSF-GOODS-02

**List of All Ongoing Government and Private Contracts Including Contract Awarded But Not Yet Started**

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

Business Address : \_\_\_\_\_

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date of Completion or Contract Duration/ Date of Delivery	Value of Outstanding Works / Undelivered Portion
			Description	%		
<b>Government</b>						
<b>Private</b>						
<b>Total Cost</b>						

The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.

Note : This statement shall be supported with the following documents for all the contract(s) stated above which shall be submitted during Post-qualification:

1. Contract/Purchase Order and/or Notice of Award
2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date.

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

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

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

*Standard Form Number: NPCSF-GOODS-03***The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid**

Business Name : \_\_\_\_\_  
Business Address : \_\_\_\_\_

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a.Amount at Award b.Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
			Description	%		

- Notes: 1. The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be bid.  
2. Supporting documents such as Contract/Purchase Order and any of the following: Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice for the contract stated above shall be submitted during Bid Opening.

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)  
Designation : \_\_\_\_\_  
Date : \_\_\_\_\_

*Standard Form Number: NPCSF-GOODS-04***NET FINANCIAL CONTRACTING CAPACITY (NFCC)**

- A. Summary of the Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the income tax return and audited financial statement for the immediately preceding calendar year are:

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) x 15] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.

NFCC = P \_\_\_\_\_

Herewith attached is certified true copy of the audited financial statement, stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding calendar year.

Submitted by:

\_\_\_\_\_  
Name of Supplier / Distributor / Manufacturer

\_\_\_\_\_  
Signature of Authorized Representative

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



Standard Form Number: NPCSF-GOODS-05

**JOINT VENTURE AGREEMENT****KNOW ALL MEN BY THESE PRESENTS:**

That this JOINT VENTURE AGREEMENT is entered into by and between:  
\_\_\_\_\_, of legal age, (*civil status*) \_\_\_\_\_, authorized representative of  
\_\_\_\_\_ and a resident of \_\_\_\_\_.

- and -

\_\_\_\_\_, of legal age, (*civil status*) \_\_\_\_\_, authorized representative of  
\_\_\_\_\_ a resident of \_\_\_\_\_.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Bidding and Undertaking of the hereunder stated Contract of the National Power Corporation.

**NAME OF PROJECT****CONTRACT AMOUNT**

\_\_\_\_\_

That the capital contribution of each member firm:

NAME OF FIRM	CAPITAL CONTRIBUTION
1. _____	P _____
2. _____	P _____

That both parties agree to be jointly and severally liable for their participation in the Bidding and Undertaking of the said contract.

That both parties agree that \_\_\_\_\_ and/or \_\_\_\_\_ shall be the Official Representative/s of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contract until terminated by both parties.

\_\_\_\_\_  
Name & Signature of Authorized  
Representative

\_\_\_\_\_  
Official Designation

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Name & Signature of  
Authorized Representative

\_\_\_\_\_  
Official Designation

\_\_\_\_\_  
Name of Firm

*Witnesses*

1. \_\_\_\_\_

2. \_\_\_\_\_

Standard Form Number: NPCSF-GOODS-05  
Page 2 of 2

**ACKNOWLEDGMENT**

BEFORE ME, a Notary Public for and in \_\_\_\_\_, Philippines, this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, personally appeared \_\_\_\_\_, authorized representative, of \_\_\_\_\_ with Community Tax Certificate No. \_\_\_\_\_, issued at \_\_\_\_\_, on \_\_\_\_\_, AND \_\_\_\_\_ authorized representative, of \_\_\_\_\_ with Community Tax Certificate No. \_\_\_\_\_, issued at \_\_\_\_\_, on \_\_\_\_\_ known to me to be the same person who executed the foregoing instrument consisting of two (2) pages, including the page whereon the acknowledgements are written, all pages signed by both parties and their instrumental witnesses and they acknowledged before me that the same are their free and voluntary acts and deeds and that of the Corporations they represents.

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

Notary Public  
Until 31 December 20\_\_\_\_\_  
PTR No. \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_.

Standard Form Number: NPCSF-GOODS-06a

**FORM OF BID SECURITY (BANK GUARANTEE)**

WHEREAS, (Name of Bidder) (hereinafter called "the Bidder") has submitted his bid dated (Date) for the [name of project] (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We (Name of Bank) of (Name of Country) having our registered office at \_\_\_\_\_ (hereinafter called "the Bank" are bound unto National Power Corporation (hereinafter called "the Entity") in the sum of [amount in words & figures as prescribed in the bidding documents] for which payment well and truly to be made to the said Entity the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

THE CONDITIONS of this obligation are that:

- 1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
- 2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPs registration certificate within the prescribed period; or
- 4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
  - a) fails or refuses to execute the Contract; or
  - b) fails or refuses to submit the required valid JVA, if applicable; or
  - c) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Entity up to the above amount upon receipt of his first written demand, without the Entity having to substantiate its demand, provided that in his demand the Entity will note that the amount claimed by it is due to the occurrence of any one or combination of the four (4) conditions stated above.

The Guarantee will remain in force up to 120 days after the opening of bids or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE \_\_\_\_\_ SIGNATURE OF THE BANK \_\_\_\_\_

WITNESS \_\_\_\_\_ SEAL \_\_\_\_\_

\_\_\_\_\_  
(Signature, Name and Address)

*Standard Form Number: NPCSF-GOODS-06b***FORM OF BID SECURITY (SURETY BOND)**

BOND NO.: \_\_\_\_\_ DATE BOND EXECUTED: \_\_\_\_\_

By this bond, We (*Name of Bidder*) \_\_\_\_\_ (hereinafter called "the Principal") and (*Name of Surety*) \_\_\_\_\_ of (*Name of Country of Surety*) \_\_\_\_\_, authorized to transact business in the Philippines (hereinafter called "the Surety") are held and firmly bound unto National Power Corporation (hereinafter called "the Employer") as Obligee, in the sum of (*amount in words & figures as prescribed in the bidding documents*), callable on demand, for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_

WHEREAS, the Principal has submitted a written Bid to the Employer dated the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_, for the \_\_\_\_\_ (hereinafter called "the Bid").

NOW, THEREFORE, the conditions of this obligation are:

- 1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
- 2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPS registration certificate within the prescribed period; or
- 4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
  - d) fails or refuses to execute the Contract; or
  - e) fails or refuses to submit the required valid JVA, if applicable; or
  - f) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

- a) liable for a greater sum than the specified penalty of this bond, nor
- b) liable for a greater sum than the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

Standard Form Number: NPCSF-GOODS-06b  
Page 2 of 2

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL \_\_\_\_\_ SURETY \_\_\_\_\_

SIGNATURE(S) \_\_\_\_\_ SIGNATURES(S) \_\_\_\_\_

NAME(S) AND TITLE(S) \_\_\_\_\_ NAME(S) \_\_\_\_\_

SEAL \_\_\_\_\_ SEAL \_\_\_\_\_

Standard Form No: NPCSF-GOODS-06c

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

**BID-SECURING DECLARATION**  
**SUPPLY AND DELIVERY OF FOUR (4) UNITS WIND MONITORING TOWERS**  
**PR No. HO-PES21-001**

To: **National Power Corporation**  
BIR Road cor. Quezon Ave.  
Diliman, Quezon City

*I/We*<sup>1</sup>, the undersigned, declare that:

1. *I/We* understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. *I/We* accept that: (a) *I/we* will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) *I/we* will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the Procuring Entity for the commission of acts resulting to the enforcement of the Bid Securing Declaration under Sections 23.1 (b), 34.2, 40.1 and 69.1, except 69.1 (f) of the IRR of R.A. 9184; without prejudice to other legal action the government may undertake.
3. *I/We* understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
  - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - (b) *I am/we* are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) *I/we* failed to timely file a request for reconsideration or (ii) *I/we* filed a waiver to avail of said right;
  - (c) *I am/we* are declared as the bidder with the Lowest Calculated and Responsive Bid, and *I/we* have furnished the performance security and signed the Contract.

---

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

Standard Form Number: NPCSF-GOODS-06c  
Page 2 of 2

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

\_\_\_\_\_  
*[Name and Signature of Bidder's Representative/  
Authorized Signatory]  
[Signatory's legal capacity]  
Affiant*

SUBSCRIBED AND SWORN to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ at \_\_\_\_\_, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant exhibited to me *his/her [insert type of government identification card used]*, with *his/her* photograph and signature appearing thereon, with no. \_\_\_\_\_ and *his/her* Community Tax Certificate No. \_\_\_\_\_ issued on \_\_\_\_\_ at \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**NAME OF NOTARY PUBLIC**

Serial No. of Commission \_\_\_\_\_  
Notary Public for \_\_\_\_\_ until \_\_\_\_\_  
Roll of Attorneys No. \_\_\_\_\_  
PTR No. \_\_, [date issued], [place issued]  
IBP No. \_\_, [date issued], [place issued]

Doc. No. \_\_\_\_  
Page No. \_\_\_\_  
Book No. \_\_\_\_  
Series of \_\_\_\_.

Standard Form No: NPCSF-GOODS-07b

**OMNIBUS SWORN STATEMENT  
(PARTNERSHIP/CORP/COOP/JV)**

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. I am the duly authorized and designated representative of *[Name of Bidder]*\_\_\_\_\_ with office address at *[address of Bidder]*\_\_\_\_\_;
2. I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the *[Name of Bidder]*\_\_\_\_\_ in the bidding as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, 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. 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 with the eligibility requirements under ITB Clause 5 of the bidding documents;
8. *[Name of Bidder]*\_\_\_\_\_ will accept corrections made to our bid to consider computational errors, omissions and other bid modifications, which shall be calculated in monetary terms to determine the calculated prices;
9. *[Name of Bidder]*\_\_\_\_\_ is free and clear of all tax liabilities to the government;
10. *[Name of Bidder]*\_\_\_\_\_ is aware of and has undertaken the following responsibilities as a Bidder:
  - a) Carefully examined and accepted all of the Terms and Conditions of the Bidding Documents;

*This omnibus statement is a requirement in the Technical Envelope. The following additional requirements shall also be submitted: In the case of corporation/partnership/JV, duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable.*



Standard Form Number: NPCSF-GOODS-07b

Page 2 of 2

- b) Conducted site inspection and acknowledged all conditions, local or otherwise, affecting the implementation of the Contract;
  - c) Made an estimate of the facilities available and needed for the contract to be bid, if any;
  - d) Inquired or secured Supplemental/Bid Bulletin(s) issued for the [Name of the Project]\_\_\_\_; and
11. [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.
12. 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.

\_\_\_\_\_  
Name and Signature of  
Bidder's Representative/Authorized Signatory

**ACKNOWLEDGMENT**

REPUBLIC OF THE PHILIPPINES )  
QUEZON CITY )SS.

BEFORE ME, a Notary Public for and in Quezon City, Philippines, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared:

<u>NAME</u>	<u>CTC NO.</u>	<u>ISSUED AT/ON</u>
_____	_____	_____

known to me and known to be the same person who executed the foregoing instrument consisting of \_\_\_\_\_ ( ) pages, including the page whereon the acknowledgments is written and acknowledged before me that the same is his free and voluntary act and deed and that of the Corporation he represents.

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

Notary Public  
Until 31 December 20\_\_\_\_  
PTR No. \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_.

*This omnibus statement is a requirement in the Technical Envelope. The following additional requirements shall also be submitted: In the case of corporation/partnership/JV, duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable.*

Standard Form No: NPCSF-GOODS-07a

**OMNIBUS SWORN STATEMENT  
(SOLE PROPRIETORSHIP)**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. I am the sole proprietor of [Name of Bidder]\_\_\_\_\_ with office address at [address of Bidder]\_\_\_\_\_;
2. As the owner and sole proprietor of [Name of Bidder]\_\_\_\_\_, I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for \_\_\_\_\_ [name of project]\_\_\_\_\_ of the **National Power Corporation**.
3. 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;
4. [Name of Bidder]\_\_\_\_\_ is authorizing the President of NPC or its duly authorized representative(s) to verify all the documents submitted;
5. I am 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;
6. [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;
7. [Name of Bidder]\_\_\_\_\_ complies with existing labor laws and standards and with the eligibility requirements under ITB Clause 5 of the bidding documents;
8. [Name of Bidder]\_\_\_\_\_ will accept corrections made to our bid to consider computational errors, omissions and other bid modifications, which shall be calculated in monetary terms to determine the calculated prices;
9. [Name of Bidder]\_\_\_\_\_ is free and clear of all tax liabilities to the government;
10. [Name of Bidder]\_\_\_\_\_ is aware of and has undertaken the following responsibilities as a Bidder:
  - a) Carefully examined and accepted all of the Terms and Conditions of the Bidding Documents;
  - b) Conducted site inspection and acknowledged all conditions, local or otherwise, affecting the implementation of the Contract;

*This omnibus statement is a requirement in the Technical Envelope. The following additional requirements shall also be submitted: In the case of corporation/partnership/JV, duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable.*

Standard Form Number: NPCSF-GOODS-07a

Page 2 of 2

- c) Made an estimate of the facilities available and needed for the contract to be bid, if any;
- a) Inquired or secured Supplemental/Bid Bulletin(s) issued for the [Name of the Project]\_\_\_\_; and
11. [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.
12. 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.

\_\_\_\_\_  
Name and Signature of  
Bidder's Representative/Authorized Signatory

**ACKNOWLEDGMENT**

REPUBLIC OF THE PHILIPPINES )  
QUEZON CITY )SS.

BEFORE ME, a Notary Public for and in Quezon City, Philippines, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared:

<u>NAME</u>	<u>CTC NO.</u>	<u>ISSUED AT/ON</u>
_____	_____	_____

known to me and known to be the same person who executed the foregoing instrument consisting of \_\_\_\_\_ ( ) pages, including the page whereon the acknowledgments is written and acknowledged before me that the same is his free and voluntary act and deed and that of the Corporation he represents.

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

Notary Public  
Until 31 December 20\_\_\_\_  
PTR No. \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

*This omnibus statement is a requirement in the Technical Envelope. The following additional requirements shall also be submitted: In the case of corporation/partnership/JV, duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable.*

Standard Form No: NPCSF-GOODS-08

**BID LETTER**

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

To: **THE PRESIDENT**  
National Power Corporation  
BIR Road cor. Quezon Ave.  
Diliman, Quezon City

Gentlemen:

Having examined the Bidding Documents including Bid Bulletin Numbers *[insert numbers]*\_\_\_\_\_, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to perform **SUPPLY AND DELIVERY OF FOUR (4) UNITS WIND MONITORING TOWERS (PR NO. HO-PES21-001)** in conformity with the said Bidding Documents for the sum of *[total Bid amount in words and figures]*\_\_\_\_\_ or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to supply and deliver the goods and perform other services, if required within the contract duration and in accordance with the scope of the contract specified in the Schedule of Requirements and Technical Specifications.

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

We agree to abide by this Bid for the Bid Validity Period specified in **BDS** provision for **ITB** Clause 18.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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

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

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

We likewise certify/confirm that the undersigned, *[for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of [Name of Bidder]*\_\_\_\_\_ has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the *[Name of Project]*\_\_\_\_\_ of the National Power Corporation *[for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the [Name of Bidder]*\_\_\_\_\_ to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for *[Name of Project]*\_\_\_\_\_ of the National Power Corporation.

We acknowledge that failure to sign each and every page of this Bid Letter, including the attached Schedule of Requirements (Bid Price Schedule), shall be a ground for the rejection of our bid.

\_\_\_\_\_  
*[name and signature of authorized signatory]*\_\_\_\_\_  
*[in the capacity of]*

Duly authorized to sign Bid for and on behalf of \_\_\_\_\_  
*[name of bidder]*

---

**Bank Guarantee Form for Advance Payment**

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To: **THE PRESIDENT**  
National Power Corporation  
BIR Road cor. Quezon Ave.  
Diliman, Quezon City

*[name of Contract]*

Gentlemen and/or Ladies:

In accordance with the Advance Payment Provision, Clause 11 of the General Conditions of Contract, [name and address of Supplier] (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of [amount of guarantee in figures and words].

We, the [name of the universal/commercial bank], as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding [amount of guarantee in figures and words].

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

This guarantee shall remain valid and in full effect from the date the advance payment is received by the Supplier under the Contract and until the Goods are accepted by the PROCURING ENTITY.

Yours truly,

Signature and seal of the Guarantors

\_\_\_\_\_  
*[name of bank or financial institution]*

\_\_\_\_\_  
*[address]*

\_\_\_\_\_  
*[date]*

**CERTIFICATION AS A DOMESTIC BIDDER**

This is to certify that based on the records of this office, (Name of Bidder) is  
duly registered with the DTI on \_\_\_\_\_;

This further certifies that the articles forming part of the product of (Name of Bidder)  
which are/is (Specify) \_\_\_\_\_ are substantially composed of  
articles, materials, or supplies grown, produced or manufactured in the Philippines. (Please  
encircle the applicable description/s).

This certification is issued upon the request of (Name of Person/Entity) in  
connection with his intention to participate in the bidding for the (Name of Project)  
of the National Power Corporation (NPC).

Given this \_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_, Philippines

\_\_\_\_\_  
Name

\_\_\_\_\_  
Position

\_\_\_\_\_  
Department of Trade & Industry