



NATIONAL POWER CORPORATION

MinGen

PHILIPPINE BIDDING DOCUMENTS

(Procurement of INFRASTRUCTURE PROJECTS)

FOR

SUPPLY AND INSTALLATION OF PIEZOMETERS AT POWER INTAKE PULANGI 4 HEP MONITORING OF DAM STRUCTURE STABILITY

P.R. No.: **MG-RDW22-018**

**Contracts Management Office
Logistics Division**

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Glossary of Terms, Abbreviations, and Acronyms

ABC –Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

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Section I. Invitation to Bid

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Invitation to Bid for Supply and Installation of Piezometers at Power Intake Pulangi 4 HEP Monitoring of Dam Structure Stability

1. The *NATIONAL POWER CORPORATION–MINDANAO GENERATION*, through the approved Corporate Budget of NPC for CY 2022 intends to apply the sum of **Two Million Ninety Nine Thousand Nine Hundred Ninety Seven & 26/100 Pesos (PHP 2,099,997.26)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Supply and Installation of Piezometers at Power Intake Pulangi 4 HEP Monitoring of Dam Structure Stability, Maramag, Bukidnon (INFRA2022-RDW-002)**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *NATIONAL POWER CORPORATION–MINDANAO GENERATION* now invites bids for the above Procurement Project. Completion of the Works is required **Forty-Five (45) calendar days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “pass/fail” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from *BAC Secretariat, NATIONAL POWER CORPORATION–MINDANAO GENERATION* and inspect the Bidding Documents at the address given below from 8:00 AM – 5:00 PM Monday to Friday.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **January 19-February 08, 2022** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Three Thousand Pesos (PHP 3,000.00)**. The Procuring Entity shall allow the bidder to pay online and present its proof of payment for the fees in person, by facsimile, or through electronic means. For those prospective bidders who wish to pay online, below are the details of the account:

LandbankAccount name : NPC GENCO 5 COLLECTIONS FUND
LandbankAccount number : 0321-1689-14

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The *NATIONAL POWER CORPORATION–MINDANAO GENERATION* will hold a Pre-Bid Conference on **January 26, 2022 at 9:30 AM** at *Bidding Room, NPC-Mindanao Generation Headquarters, Maria Cristina, Iligan City* and/or through videoconferencing/webcasting via *ZOOM*, which shall be open to prospective bidders. Interested online attendees are required to pre-register one (1) day before the scheduled pre-bidding conference. For pre-registration, contact tel. no. (063)-222-3459 or email logistics_afd_mingen@napocor.gov.ph.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **February 08, 2022 at 9:30 AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.
9. Bid opening shall be on **February 08, 2022 at 9:30 AM** at the *Bidding Room, NPC-Mindanao Generation Headquarters, Maria Cristina, Iligan City*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. ***This project requires submission of at least:***
 - ***Certificate of Site Inspection***
11. The *NATIONAL POWER CORPORATION– MINDANAO GENERATION* 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 Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

BAC Secretariat
Contracts Management Office
Logistics Division
Mindanao Generation Headquarters
National Power Corporation
Maria Cristina, Iligan City
logistics_afd_mingen@napocor.gov.ph
Tel. No.: (063)222-3459
Fax No.: (063)223-8355/(063)223-4604
www.napocor.gov.ph

13. You may visit the following websites:

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

HASSAN L. MACADATAR

Chairman, Bids and Awards Committee
Mindanao Generation Headquarters

Date of PhilGEPS Publication: 19 January 2022

Section II. Instructions to Bidders

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1. Scope of Bid

The Procuring Entity, **NATIONAL POWER CORPORATION–MINDANAO GENERATION** invites Bids for the ***Supply and Installation of Piezometers at Power Intake, Pulangi 4 HEP Monitoring of Dam Structure Stability, Maramag, Bukidnon, with Project Identification Number INFRA2022-RDW-002.***

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for CY 2021 in the amount of ***Two Million One Hundred Thousand Pesos (PHP2,100,000.00).***
The source of funding is:

- a. GOCC and GFIs, the proposed Corporate Operating Budget.

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 Manual 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 invitation to bid 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 inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) 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, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, 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. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA’s CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be “similar” to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated 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.

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 fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address **and/or through videoconferencing/webcasting** as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. 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. 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.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of

the project, as the case may be, must meet the minimum requirements for the contract set 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 IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. 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. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. 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.
- 14.2. *Payment of the contract price shall be made in:*
 - a. Philippine Pesos.

15. Bid Security

- 15.1. 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**.
- 15.2. The Bid and bid security shall be valid until *One Hundred Twenty (120) Calendar Days from the Scheduled Bid Opening*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. 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 to the given website 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.

17. Deadline for Submission of Bids

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**.

18. Opening and Preliminary Examination of Bids

- 18.1. 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.

- 18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.
- 18.3.

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 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20.Post Qualification

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

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

Section III. Bid Data Sheet

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Bid Data Sheet

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <u>Drilling and Installation of Piezometers.</u>		
7.1	Subcontracting is not allowed.		
10.3	None		
10.4	The key personnel must meet the required minimum years of experience set below:		
	Key Personnel	General Expertise	Relevant Experience
	1 – Drilling Supervisor	Drilling Supervisor	At least three (3) years experience in related works
	1 - Driller	Drilling works	At least two (2) years experience in similar works
	1 – Core Layer	Core layer works	At least two (2) years experience in similar works
	1 – Pump Tender	Pump operator	At least one (1) year working experience in similar works
	1 - Construction Safety and Health Officer (SO2)	Construction Safety Officer 2	At least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project)
	1 - Welder	Welding works	At least two (2) years experience in similar works

	<p>(1) Valid Professional Regulation Commission (PRC) license for professional personnel; (2) Certificate of Training with accreditation from DOLE for the Construction Safety & Health Officer; and (3) Diploma and/or Service Record/Certificate of Employment of previous and/or current employer for Drilling Supervisor, Driller, Core Layer, Pump Tender and Welder, <i>shall be submitted during post qualification by the winning bidder.</i></p> <p>Drilling Supervisor and Construction Safety & Health Officer maybe one person, as long as he meets the requirements of the two positions. Provided however, that there is no overlapping of projects undertaken by the same contractor and supervised by the same person.</p> <p>The above key personnel must be either employed by the applicant or contracted by the applicant to be employed for the contract to be bid.</p>																								
10.5	<p>The minimum major equipment requirements are the following:</p> <table><tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr><tr><td>Drilling Machine</td><td>Drilling hole diameter at least 5-1/2”, drilling depth of at least 25m, motor driven with engine power of at least 18.37KW)</td><td>One (1)</td></tr><tr><td>Mini Dump Truck</td><td>Three (3) cu.m.</td><td>One (1)</td></tr><tr><td>Concrete Mixer</td><td>One-bagger</td><td>One (1)</td></tr><tr><td>Generator</td><td>must be able to supply at least - 1 unit 200 Amp Welding machine</td><td>One (1)</td></tr><tr><td>Water Pump</td><td>pumping head of at least 5m</td><td>One (1)</td></tr><tr><td>Welding Machine</td><td>200 Amp</td><td>One (1)</td></tr><tr><td>Cutting Outfit w/ oxy-acetylene tanks</td><td>25 mm (min.) thickness</td><td>One (1)</td></tr></table>	Equipment	Capacity	Number of Units	Drilling Machine	Drilling hole diameter at least 5-1/2”, drilling depth of at least 25m, motor driven with engine power of at least 18.37KW)	One (1)	Mini Dump Truck	Three (3) cu.m.	One (1)	Concrete Mixer	One-bagger	One (1)	Generator	must be able to supply at least - 1 unit 200 Amp Welding machine	One (1)	Water Pump	pumping head of at least 5m	One (1)	Welding Machine	200 Amp	One (1)	Cutting Outfit w/ oxy-acetylene tanks	25 mm (min.) thickness	One (1)
Equipment	Capacity	Number of Units																							
Drilling Machine	Drilling hole diameter at least 5-1/2”, drilling depth of at least 25m, motor driven with engine power of at least 18.37KW)	One (1)																							
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Concrete Mixer	One-bagger	One (1)																							
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Water Pump	pumping head of at least 5m	One (1)																							
Welding Machine	200 Amp	One (1)																							
Cutting Outfit w/ oxy-acetylene tanks	25 mm (min.) thickness	One (1)																							
12	N/A																								
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than PHP41,999.95 (2% of ABC), if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than PHP104,999.86 (5% of ABC), if bid security is in Surety Bond.</p>																								

19.2	Partial bids are allowed, as follows:
20	<p>Additional documents to be submitted during Post-Qualification:</p> <ol style="list-style-type: none"> 1. Other appropriate licenses and permits required by law and stated in the Bidding documents. <ol style="list-style-type: none"> a. Original Bank Statement year ending prior to bid opening b. Valid PhilGEPS Registration (Platinum Membership) c. Valid Tax Clearance d. Quarterly Income Tax Returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) e. Board of Accountancy (BOA) Certificate 2. Contract and/or Notice of Award as supporting documents for <i>NPC MinGen Form No. NPCMGNSF-INFR-01</i>, if applicable 3. (1) Valid Professional Regulation Commission (PRC) license for professional personnel; (2) Certificate of Training with accreditation from DOLE for the Construction Safety & Health Officer; and (3) Diploma and/or Service Record/Certificate of Employment of previous and/or current employer for Drilling Supervisor, Driller, Core Layer, Pump Tender and Welder- as supporting documents for <i>NPC MinGen Form No. NPCMGNSF-INFR-05</i>, if applicable 4. Certificate of Site Inspection issued by Plant/Department Manager or his authorized representative (<i>Must be secured before Bid Opening</i>)
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as:</p> <ol style="list-style-type: none"> a) Approved Construction Schedule and S-curve b) Approved Manpower Schedule c) Construction Methods d) Approved equipment utilization schedule e) Construction safety and health program approved by the DOLE f) Approved Project Evaluation Review Technique/Critical Path Method (PERT/CPM)

Section IV. General Conditions of Contract

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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.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award 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.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the SCC, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the SCC.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	Sectional completion is not specified.
4.1	The Procuring Entity shall give possession of the Site to the Contractor <i>on the start date</i> .
6	The site investigation reports are: NONE
7.2	Fifteen (15) years
10	Dayworks are not applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative <u>upon contract signing</u> or within <u>three (3)</u> days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is Fifty (50) % of the billed amount. The updating of Program of Work shall be done bi-monthly.
13	The amount of the advance payment is 15% of contract amount and paid in lump sum.
14	No further instruction.
15.1	The date by which operating and maintenance manuals are required is upon completion of the project. The date by which "as built" drawings are required is upon completion of the project.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is one hundred percent (100%) of the final billing.

Section VI. Specifications

NPC-MinGen

PROJECT HIGHLIGHTS

SUPPLY AND INSTALLATION OF PIEZOMETERS AT PULANGI 4 HEP MONITORING OF DAM STRUCTURE STABILITY

PH-1.0 GENERAL

This project aims to monitor/detect possible occurrence of seepages underneath dam structure of Pulangi 4 HEP. Four (4) units Open-Standpipe Piezometers will be installed at project site.

PH-2.0 PROJECT LOCATION

Downstream Slope of the Penstocks and Power Intake at Pulangi 4 HEP, Maramag, Bukidnon. Piezometric points will be identified at site by the DRWMD personnel.

PH-3.0 SCOPE OF WORK

The work and services to be performed by the Contractor for this undertaking shall essentially consist of, but not limited to the following:

- a. Mobilization/establishment of Contractor's complete construction camp and other facilities;
- b. Drilling of Hole (NQ Size – 4 x 24m depth;
- c. Installation of Piezometer Tips & PVC Riser Pipes;
- d. Grouting with Bentonite and Sand-Cement to Annular between Pipe & Drill Hole;
- e. Installation of Steel Riser with Padlock and Concrete Pedestal;
- f. Pore-pressure Testing of Four (4) Piezometer Installation;
- g. Demobilization including clearing of site/demolition of Contractor's camp facilities.

PH-4.0 CONTRACT PERIOD

The work duration of the entire project is **Forty Five (45) Calendar Days** reckoned from receipt of the Notice to Proceed. The total contract period is inclusive of five (5) rainy/unworkable days considered unfavourable for the execution of works at site. The contract period shall be reckoned from the date of contract effectivity as specified in the Notice to Proceed.

PH-5.0 CONTRACTOR'S CLASSIFICATION

The Contractor must have a valid Philippine Contractors Accreditation Board (PCAB) licence of at least **Category C or D – General Engineering** and registration classification of at least **Small B – Roads, Highways, Pavements, Railways, Airport, Horizontal Structures & Bridges / Irrigation or Flood Control / Dam, Reservoir or Tunnelling**.

The Contractor must have undertaken similar contracts and/or projects involving pipe drilling and underground pipe and instrument installation or similar works.

TECHNICAL SPECIFICATIONS

a. Drilling and Installation of Piezometers

i. Materials

All materials to be used in this drilling project shall conform to applicable standard. If upon visual inspection the materials appear to be of poor quality or fail to meet the standard, the NPC Inspector has the authority to reject the same outright.

ii. Workmanship

General

This specification provides guidance for drilling earth embankments and their soil and rock foundations. It identifies acceptable and prohibits unacceptable techniques and circulating media and prescribes personnel requirements and approved drilling methods.

Personnel involved in drilling into or through dam and earth embankment shall be senior, well qualified, and experienced in the processes and procedures. Drillers and field engineers shall be industry specialists and experts in their fields.

Auger drilling is the recommended method for advancing a hole through an earthen embankment. If auger tools are used, either bucket, continuous flight, or hollow stem augers shall be used, and under no circumstances shall drill fluid circulation be used. Hollow stem auger may be used with Standard Penetration Test equipment.

Cable tool drilling and rotary drilling may also be used when auger drilling is impractical. If the cable tool method is used, drilling tools shall be restricted to hollow sampling (drive) barrels in earth embankment and overburden materials. If rotary drilling is used, an engineered drilling fluid (mud) shall be used. If rotary drilling with fluid is selected as the drilling method, procedures detailed in part II shall be used.

Exemptions to deviations from these prohibitions and requirements may make only in special circumstances and when all other acceptable alternatives have been exhausted. Drilling through pervious rockfill or gravel sections of an embankment or foundation could be considered an appropriate instance for exemption. It is the responsibility of the Contractor to assure compliance with restrictions and procedures as outlined. Written

request for any modification to the provision must be submitted for approval to the office of DRWMD for technical review. A written decision to grant or reject the request shall be forwarded to the Contractor before any work could begin.

- a. *Moving-in - The contractor shall bring to the site all his necessary construction equipment and materials and place in the specified location and in the manner approved/designated by the NPC. Contractor's Camp Facilities shall provide and grade his camp site, construct his camp, employee housing, warehouse, machine and repair shops, fuel storage tanks and provide such related facilities and sanitary conveniences that the Contractor deems necessary for maintaining health, peace and order in the camp and work areas. The areas that may be used by the Contractor within the plant site shall be designated by the NPC. The Contractor shall provide, maintain and operate, under competent direction, such camps and facilities as are necessary for the housing, feeding and accommodation of his employees.*

b. *Drilling of Hole (NQ Size – 4 x 23 m depth)*

Procedure

Rotary drilling for earth embankment - Holes into or through an embankment shall be drilled with non-coring type roller (preferred), fishtail or other suitable bit as necessary to drill minimum 140mm (5.5") diameter hole in the embankment and overburden. Where practicable, openings or nozzles directing flow of the circulation fluid, should be upward or side discharge. A commercial drilling mud shall have sufficient consistency and weight to prevent caving and minimize intrusion of the drilling mud into the embankment and overburden. Thorough washing out and removal of all cuttings during drilling is essential. Upon reaching foundation rock, an NW size, 88.9mm (3.5") O.D. x 76.2mm (3") I.D., flush-joint casing shall be inserted into the hole and firmly seated in the rock, after seating the casing until it is removed from the hole after backfilling. Every effort shall be made to avoid loss of circulation and embankment damage. This shall include the careful control of the following:

Excess drill penetration rate or down pressure may cause embankment damage.

Drilling rate of not more than 1.5 meters penetration in five (5) minutes should be maintained when drilling in clay. To prevent damage from clay buildup on the drill rods or bailing of the bit and overloading (clogging) the annulus of the hole, the drill should be slowly raised and cleaned if clay buildup occurs. Surges in pumping rate or pressure should be avoided. Pump pressure and

drill down-pressure should be avoided. Pump pressure and drill down-pressure readings must be continually monitored. If the pump pressure increases by 50% during the drilling or any 1.5 meter increment, the bit should be picked up slowly and the hole allowed cleaning. In an attempt to drill through any tight sections, drill tools slowly to prevent pressure changes that cause caving. Do not advance the hole by rapid raising and lowering of the drill tools. Raise or lower the drill tools slowly to prevent pressure changes that cause caving. Run the pump for 15 seconds with the bit on the bottom of the hole before adding a joint of drill rod. Operate the pump at the lowest rate that will assure adequate cooling and cleaning of the bit and removal of cuttings. The initial drilling fluid mix shall be mud in consistency, slurry or as approved by Geotechnical Engineer from DRWMD. A mixing tub or holding tank large enough to hold an adequate quantity (at least 1.5 times the hole volume) of drilling fluid mix should be maintained on site. This will ensure that the hole is filled with drilling and kept open at all times. The maximum allowable mud weight is 1,153 kg/cu m. Drilling mud viscosity also should be monitored continually (using Marsh Tunnel) and should be maintained within 60 to 70 second. Drilling mud should be weighed every 15 minutes, adding water or new mix while drilling to maintain minimum weight (hydrostatic head and solids content), while viscosity (pressure in the annulus while circulating) and filtration (filter cake restriction of the annulus). While drilling mud weigh reaches 1,153 kgs/cum, stop the drilling and pumping and mix a new batch of drilling mud. Adjustments should be made to this initial mix during drilling operation if problems or unfavorable results occur such as clay buildup. If significant loss of drilling fluid or other problems continue, the use of a rotary drilling shall be discounted and new tactic developed in consultation with the Geotechnical Engineer of DRWMD.

c. Installation of 4 units Piezometers

Procedure

c.1. Installation – A cased hole is advanced below the ground surface by jetting or by standard drilling procedures preferable rotary type to the elevation planned for the bottom of the porous space. Most of the casing is usually removed from the hole during the installation of the apparatus, but if the casing is considered expandable, a sufficient length should be, pulled after installation of the porous tubes so that the sand-cement grout will have direct contact, if possible with an impermeable stratum. The successive steps involved in the installation of the porous-tube piezometer are as illustrated. The hole is kept full of water

operations 1 through 5. The length of porous tube and sand backfill shown in the attached drawings are those of a typical installation, but the porosity and length of the porous tube, the length of the sand backfill, and also the diameter of drilled hole may be varied with subsurface conditions encountered at the site.

c.2. After the casing has reached the desired depth, it should be washed clean to the bottom. For a drilled hole, clean water is circulated through the bit until the discharge is clear. The casing should be kept full by pouring in the clear water until all cloudiness disappears from the effluent.

c.3. After the hole is cleaned; saturated sand is poured into the casing to fill the bottom of the porous space. However, the length of the hole to be filled with sand will depend on the relative tightness of the natural soil surrounding the hole; that is, the lower permeability, the greater the length of hole for intake area to piezometer. Generally the sand backfill should be clean and well graded from No. 4 to No. 200 mesh, United States standard sieve sizes. Unless the side walls of the whole have a tendency to cave, the casing should be raised approximately 0.60 meter before backfilling with saturated sand. However, if there is danger of sloughing, the casing should be withdrawn in increments of 0.15 meter or less after lifts of sand are place to support the hole. The sand in the bottom of the hole tamped with a bar or pipe before the installation proceeds.

c.4. Before placing the porous (alundum) tube at its designed elevation, it is immerse a few feet below the surface of the water in the hole into clear water and the plastic is connected to small supply tank. A vacuum is then applied to the tank to draw water through the porous tube to eliminate air from the system. To expedite saturating and removing air from the porous (alundum) tube, they should be soaked in warm water for several hours or boiled in water for 15 minutes before installation.

c.5. When lowering the assembled porous tube and standpipe into the hole, a small positive pressure should be maintained in the tank to cause an outward flow of water from the tip. This will prevent the movement of fines into the porous tube. The designed original elevation for the porous tube is the elevation of the midpoint along the length of the tube. (The length of the porous tube, including the projecting rubber bushing, should be measured before the apparatus is lowered into the hole). Measurement for the original elevation of the porous tube should be taken to the nearest 30 mm.

c.6. With the assembled porous tube resting on the sand in the bottom of the hole, the casing is withdrawn in small increments, depending on the condition of the walls of the hole, and saturated sand is poured into the hole to the level of the top of the porous tube.

c.7. The casing is then pulled approximately 0.30 m and that portion of the hole is backfilled with saturated sand. A minimum of 0.30 m of sand should be backfilled above the elevation of the top of the porous tube. After all the sand is placed, it is tamped with the bar.

c.8. The casing is then pulled approximately 0.90 m or as the hole will permit and the hole is backfilled with a sand-Portland cement grout having a volume ratio of one part cement to four parts sand. Sufficient water should be added to the dry volumes to produce a workable grout mix. The tamping bar should be lowered into the hole at this stage to puddle the grout. An attempt should be made to maintain the plastic standpipe in the center of the hole during each increment of grout backfill.

c. Grouting with Bentonite and Sand-Cement to Annular between Pipe and Drill Hole

Procedure

d.1. The casing, thereafter, is pulled in 0.90 m to 1.50 m increments or as the hole will permit and the hole is backfilled with sand-cement grout and bentonite. When approximately 1.07 m of casing remains in the hole, the casing should be cut off about 0.15 m above the ground surface. The top of the casing is provided with a metal pipe cap. The plastic standpipes is cut off flush with the top of steel casing and capped with a removable pipe cover. The annular space between the steel casing and the plastic standpipe is filled with grout to within approximately 50 mm of the top of the pipe.

d. Installation of Steel Riser with Padlock and Concrete Pedestal

Procedure

e.1. Fabrication of steel pipe riser casing with cup in welding shop and field shall be done by welder operators having been previously qualified by test prescribed in the American Welding society "Standard Qualification Procedure" to perform the type of work required. Equipment shall be of the type, which produce proper current so that operator may produce satisfactory welds.

The welding machine shall be of 200-400 amperes, 200-240 volts capacity. Unless otherwise shown on the Plans, the following low hydrogen electrodes shall be used and shall be suitable for positions and other conditions of intended use in accordance with the instruction with each container. The technique of welding employed, the appearance and quality of welds made, and the methods of correcting defective work shall conform to the American Welding society code for arc Welding in Building Construction, "Section 4, Workmanship. Surfaces to be welded shall be free from loose scale, rust, grease, paint and other foreign material except that mill scale, which withstands vigorous wire brushing, may remain. Finish members shall be true to line and free from twists, bends and open joints.

e.2. The steel pipe riser casing, thereafter, is pulled in 0.90 m to 1.50 m increments or as the hole will permit and the hole is backfilled with sand-cement grout. When approximately 1.07 m of casing remains in the hole, the casing should be cut off about 0.15 m above the ground surface. The top of the casing is provided with a metal pipe cap. The plastic standpipes is cut off flush with the top of steel casing and capped with a removable pipe cover. The annular space between the steel casing and the plastic standpipe be filled with grout to within approximately 50 mm of the top of the pipe

e.3. The order of placing concrete in all parts of the work shall be subject to the approval of the NPC Engineer. As concrete is placed in the forms or in excavations, it shall be thoroughly settled and compacted throughout the entire depth of the layer which is being consolidated, into a dense, homogeneous mass, filling all corners and angles, thoroughly embedding the reinforcement, eliminating rock pockets, and bringing only a slight excess of water to the exposed surface of concrete during placement. All concrete shall be cured for not less than fourteen (14) days after placing. All finished or formed surfaces shall conform accurately with the shape, alignment, grades and sections as indicated on the plans or as prescribed by the NPC Engineer. Surfaces shall be free from fins, bulges, ridges, offsets, honeycombing, or roughness of any kind, and shall present a finished, smooth, continuous hard surface.

e.4. Upon completion of the installation, a protective concrete pedestal (using 1:2:3 mix of $\frac{3}{4}$: maximum size aggregates) shall be constructed into the ground, 0.30 meter below the lowest ground surface and around the casing to protect the installation. Pipe cap shall be provided with 3" WEATHER-PROOF padlock as shown in the drawing.

e.5. Painting, all metal surfaces shall be washed with minerals spirits to remove any dirt grease before applying coats. Where rust or scale is present, it shall be wired brushed or sand papered clean before painting. Shop coats of paint that becomes marred shall be cleaned and touched up or finished before the finished coats are applied. All metal surfaces shall be properly prepared, cleaned, or chemically treated before applying the first coat of paint in one of the following ways:

All exposed surface shall be cleaned with diluted acetic acid to remove grease or oil and slight indications of oxidation and rust over the surface, then rinsed with clean water.

The surface must be thoroughly dry before the paint is applied or shall be thoroughly cleaned with gasoline and coated with solution consisting of 4 ounces of copper sulphate in one gallon of water.

This coating shall remain on surfaces not less than 12 hours and then duster off with stiff fiber bristle brush. Paint shall be thoroughly and uniformly brushed on, so as to form a film of even thickness.

Paint shall be thoroughly stirred so as to keep the pigment evenly in suspension while paint is applied.

Each part of paint shall be allowed to dry thoroughly and inspected for approval before the succeeding coat is applied. No oil paint shall be done in damp weather. All surface shall be thoroughly clean and dry before any paints is applied.

Except where otherwise indicated, all paints shall be applied in three (3) coats (priming, body and finish).The painter's brush (nylon brush) shall be used. Field painting, all steel work after the complete erection, shall be painted with the type and color specified. Painting shall be done on any steel surface that is not thoroughly clean and dry. Steel work prior to painting and after inspection and approval shall be cleaned of loose mil scale, loose rust, weld slag or flux deposit, dirt and other foreign materials. Oil and grease shall be removed by solvent. Parts of the steel work which shall be fielded, welded or connected shall be painted. All steel work specified to have no shop paint shall likewise be thoroughly cleaned. Priming coat, first quality Red Lead Paint shall be applied before the installing and securely fitting in place all metal works. After they are fitted in place, the priming coat shall first be touched up or refinished, then allowed to dry thoroughly, and finally finished with two (2) coats of first quality metallic paint

of the color approved in the scheme. All exposed steel structure (casing, cap) shall be painted with steel primer and finished with two coats of orange enamel paint. Concrete pedestal shall be painted with white latex paint in 3 coats.

e. Pore Pressure Testing of 4 Piezometers Installed

Procedure

f.1. Description of Apparatus- The porous-tube piezometer is a device for measuring pore water pressure in a foundation. It is more sensitive to foundation pressures or ground-water fluctuation and is more resistant to plugging due to silting than the conventional observation well which it replaces. The installation consist of a length of porous carborundum or alundum tube set in a hole which is either drilled or jetted into the foundation to a predetermined elevation to intercept ground water or pore pressure in the foundation. The porous tube is plugged at one end, is surrounded by sand, and has a small-diameter plastic riser pipe extended to the ground surface. The pressure of the pore water surrounding the porous tube causes a flow through the piezometer until the pressure are equalized by the head of water in the stand standpipe. The elevation of water in the plastic tube is determined by an electrical sounding device, lowered from the ground surface. Each porous-tube piezometer is an independent installation and therefore may be utilized to provide foundation pore pressure data in area around structures at locations otherwise inaccessible.

f.2. The intake point of the piezometer consist of a porous carborundum or alundum tube of annular cross section, 1 ½ - inch wall thickness, and 0.60 meter in length. The bottom end of the porous tube is plugged with a No. 5 rubber or neoprene stopper. To the top end of the porous tube is attached the ½" OD by 1/6" wall plastic tubing which is provided in 6 meter length. Variable length of the plastic tubing can be cut as required using an ordinary hacksaw. Connections between lengths of plastic tubing are made with compression-type coupling to extend the standpipe to the ground surface. To assemble the piezometer, one end of the plastic tube is threaded out and the other receiving end is threaded in to approximately 25.4 mm. The top end of the porous tube is capped with coupling and is twisted 76 mm into the riser pipe (using a strap wrench) to complete the assembly.

f.3. Tamping Rod – A length of reinforcement rod or pipe is used to tamp the wet sand below and above the porous tube.

Considerable care must be exercised to avoid damaging the somewhat fragile porous tube during tamping operations. The rod or pipe should be marked off in 1.50 meter interval, starting at the lower end, so that it can be used to check the final elevation of the top of the porous tube and the elevation at which tamping is performed.

f.4. Water Level Sounder – This water level sounder consist of a rubberized coaxial cable with polyethylene jacket about 4mm in diameter with permanent laser-mark in each millimeter. It is mounted on light-weight reel with carrying case. The reel must have a battery drawer, brake assembly and carrying handle. It must have a switch for On/off, light, buzzer, and a battery test button. The length of coaxial cable is 30.00 meters. The probe must be 10mm diameter x 70mm long stainless steel with ten (10) stainless steel weights weighing 174 grams. This stainless steel weights are used for easy access to tubes and for keeping the cable hanging straight.

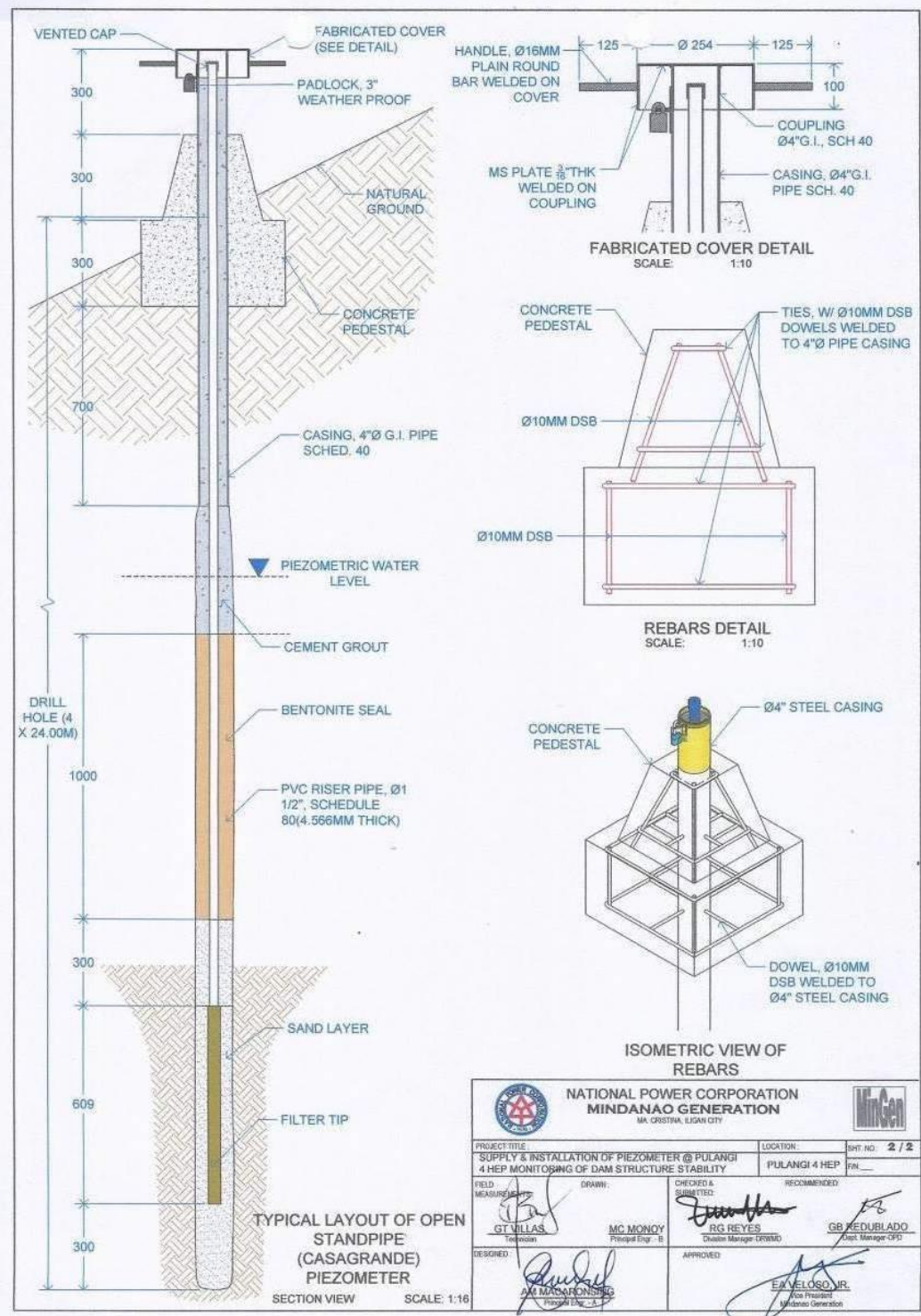
- f. Removal of Camp and Construction Facilities - After the completion of the work covered by the contract and prior to acceptance of the completed work, the entire camp facilities of the Contractor, including its water supply system, electric distribution system, quarters, warehouses, shops, dining halls, commissaries, temporary shed and other facilities therein shall be removed by the Contractor. The site shall be cleared and cleaned as directed by the NPC.*

iii. Measurement of payment

All measurement and payment shall be made at the contract unit price or lot, price of the various applicable items specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, equipment and other incidentals necessary for the satisfactory completion of the project.

Sheet No. 2/2

Typical lay-out of Open pipe Piezometer



Section VIII. Bill of Quantities

Item No.	Description of Work or Materials	Unit	Estimated Quantity	Unit Price in Pesos (Words and Figures)	Total Amount
1	Drilling of Hole (NQ Size - 4 x 24 m depth)	l.m.	96.00	(PHP_____)	
2	Installation of 4 units Piezometers	lot	1	(PHP_____)	
3	Grouting with Bentonite and Sand-Cement to Annular Between Pipe and Drill Hole	lot	1	(PHP_____)	
4	Installation of Steel Riser with Padlock and Concrete Pedestal	units	4	(PHP_____)	
5	Pore-Pressure Testing of Piezometers Installed	units	4	(PHP_____)	
				PHP	

Name of Firm

Name and Signature of Authorized Representative

Designation

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE[*Submit in three (3) copies- one (1) marked Original with the understanding that the Pass/Fail evaluation will be based only on the copy marked "Original"*]

Class "A" Documents

Legal Documents

- ☒ (a) Valid and updated PhilGEPS Registration Certificate (Platinum Membership) (all pages); **or**
- ☒ (b) Registration Certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
- and**
- ☒ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
- and**
- ☒ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- ☒ (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-01*; and
- ☒ (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules, *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-02 supported with the following documents:*
 - *Contract and/or Notice to Proceed;*
 - *For project completed within the year, submit Certificate of Completion;*
 - *For project completed after the lapse of one year, submit Owner's Certificate of Final Acceptance issued by the project owner other than the contractor, or a final rating of at least Satisfactory in the Constructor's Performance Evaluation System (CPES);*
 - *In case of contracts with the private sector, an equivalent document (Ex. Official receipt) shall be submitted.*
- and**
- ☒ (g) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**

- ☒ (h) Original copy of Bid Security. If in the form of a Surety Bond, *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-03a*, submit also a certification issued by the Insurance Commission;
- or
Original copy of Notarized Bid Securing Declaration using *NPC-MinGen Standard Form No. NPCMGNSF-INFR-03b*; and
- ☒ (i) Project Requirements, which shall include the following:
- ☒ a. Organizational chart for the contract to be bid *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-04*;
- ☒ b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data, using NPC-MinGen Standard Form No. NPCMGNSF-INFR-05, 6a, 6b & 07;
- ☒ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, using NPC-MinGen Standard Form No. NPCMGNSF-INFR-08 and its supporting documents; and
- ☒ (j) Original duly signed Omnibus Sworn Statement (OSS), *using any of the following NPC-MinGen Standard Forms No.:*
NPCMGNSF-INFR-09a – for Sole Proprietorship;
or
NPCMGNSF-INFR-09b – for Partnership/Cooperative/Corporation/ Joint Venture with the following supporting documents:

and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☒ (k) 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; **and**
- ☒ (l) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-10*.

Class "B" Documents

- ☒ (m) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence, using NPC-MinGen Standard Form No. ***NPCMGNSF-INFR-11***;

or

duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE*[Submit in three (3) copies- one (1) marked Original with the understanding that the Pass/Fail evaluation will be based only on the copy marked "Original"]*

- ☒ (n) Original of duly signed (each and every page) and accomplished Financial Bid Form, using NPC-MinGen Standard Form No. ***NPCMGNSF-INFR-12***; **and**
Other documentary requirements under RA No. 9184
- ☒ (o) Original of duly signed (each and every page) Bid Prices in the Bill of Quantities, using ***given form in Section VIII***; **and**
- ☒ (p) Duly signed (each and every page) and accomplished Detailed Estimates Form using NPC-MinGen Standard Form No. ***NPCMGNSF-INFR-13***, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid using NPC form ***NPCMGNSF-INFR-14***; **and**
- ☒ (q) Cash Flow by Quarter or Month, as applicable (duly signed each and every page)

STANDARD BIDDING FORMS

NPC-MINDANAO GENERATION

- NPCMGNSF-INFR-01 - List of all Ongoing Government & Private Construction Contracts Including Contracts Awarded but not yet Started
- NPCMGNSF-INFR-02 - Statement of the Bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid
- NPCMGNSF-INFR-03a - Form of Bid Security : Surety Bond
- NPCMGNSF-INFR-03b - Bid Securing Declaration Form
- NPCMGNSF-INFR-04 - Contractor's Organizational Chart for the Project
- NPCMGNSF-INFR-05 - List of Key Personnel Proposed to be Assigned to the Project
- NPCMGNSF-INFR-6a - Key Personnel's Certificate of Employment (Professional Personnel)
- NPCMGNSF-INFR-6b - Key Personnel's Certificate of Employment (Construction Safety and Health Practitioner)
- NPCMGNSF-INFR-07 - Key Personnel's Bio-Data
- NPCMGNSF-INFR-08 - List of Equipment, Owned or Leased and/or under Purchase Agreement, Pledged to the Proposed Project
- NPCMGNSF-INFR-09a - Omnibus Sworn Statement (Sole Proprietorship)
- NPCMGNSF-INFR-09b - Omnibus Sworn Statement (Partnership/ Cooperative/Corporation//Joint Venture)
- NPCMGNSF-INFR-10 - Computation of Net Financial Contracting Capacity (NFCC)
- NPCMGNSF-INFR-11 - Joint Venture Agreement
- NPCMGNSF-INFR-12 - Bid Form
- NPCMGNSF-INFR-13 - Detailed Cost Estimate Form
- NPCMGNSF-INFR-14 - Summary Sheets of Materials Prices, Labor Rates and Equipment Rental Rates

BID DOCUMENTS

NAME OF PROJECT: SUPPLY AND INSTALLATION OF
PIEZOMETERS AT POWER INTAKE ULANGI 4 HEP DAM MONITORING
OF STRUCTURE STABILITY

SECTION IX. CHECKLIST OF TECHNICAL AND
FINANCIAL DOCUMENTS

PR NO./REF. NO. MG-RDW22-018/INFRA2022-RDW-002

Standard Form Number : NPCMGNSF-INFR-01

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

Business Name : _____
Business Address : _____

Name of Contract/Location/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment		Value of Outstanding Works
			Description	%		Planned	Actual	
<u>Government</u>								
<u>Private</u>								
Total Cost								

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 Contract and/or Notice of Award (to be presented by the winning bidder during Postqualification).

Submitted by : _____
(Printed Name & Signature)

Designation : _____
Date : _____

Standard Form Number : NPCMGNSF-INFR-02

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	%		

Note: The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be bid. Stating two (2) or more will disqualify his bid. This Statement shall be supported with:

1. Contract and Notice to Proceed
2. Certificate of Completion (for project completed within the year), or Owner's Certificate of Final Acceptance (for project completed after the lapse of one year) issued by the project owner other than the contractor, or a final rating of at least Satisfactory in the Constructor's Performance Evaluation System (CPES). In case of contracts in the private sector, an equivalent document (Ex. Official Receipt) shall be accepted.

Submitted by : _____
(Printed Name & Signature)

Designation : _____

Date : _____

Standard Form No: NPCMGNSF-INFR-03a

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 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:
 - 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 Instruction 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.

BID DOCUMENTS

NAME OF PROJECT: SUPPLY AND INSTALLATION OF
PIEZOMETERS AT POWER INTAKE ULANGI 4 HEP DAM MONITORING
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Standard Form No: NPCMGNSF-INFR-03a

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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)

SIGNATURE(S)

NAME(S) AND TITLE (S)

NAME(S)

SEAL

SEAL

Standard Form No: NPCMGNSF-INFR-03b

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

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

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

I/We, the undersigned, declare that:

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

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

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]*
[Insert signatory's legal capacity]
Affiant

[Jurat]

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

Standard Form No: NPCMGNSF-INFR-04

CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him. Indicate in the chart the names of the Project Manager, Project Engineer, Foreman and other Key Engineering Personnel.

Attach the required Proposed Organizational Chart for the Contract as stated above

NOTES:

1. *This organization chart should represent the "Contractor's Organization" required for the Project, and not the organizational chart of the entire firm.*
2. *Each such nominated engineer/key personnel shall comply with and submit their complete qualification and experience data.*
3. *All these are required to be in the Technical Envelope of the Bidder.*

**LIST OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT
(Based on the Minimum Key Personnel Required in the Bidding Documents)**

Business Name : _____
Business : _____

	DESIGNATION				
1. Name					
2. Address					
3. Date of Birth					
4. Employed Since					
5. Experience					
6. Previous Employment					
7. Education					
8. PRC License					

Required Attachments during Postqualification:

1. Valid PRC License of the (professional) personnel)
2. Certificate of Training with accreditation from DOLE of the Construction Safety and Health Officer
3. TESDA Training Certificate (NC II) of Welder or Electrician, whichever is applicable
4. Copy of Diploma and/or Service Record/Certificate of Employment of previous and/or current employer of Foreman, Welder, Plumber or Electrician, whichever is applicable shall be submitted during post qualification by the winning bidder.

Submitted by: _____
(Printed name & Signature)

Designation: _____

Date: _____

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (based on the minimum key personnel required in the bidding documents) to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-06a

**KEY PERSONNEL'S CERTIFICATE OF EMPLOYMENT
(PROFESSIONAL PERSONNEL)**Issuance Date**THE VICE PRESIDENT**National Power Corporation
Mindanao Generation
Maria Cristina, Iligan City

Dear Sir:

I am (Name of Nominee) a Licensed Engineer with
Professional License No. Issued on (date of issuance) at (place
of issuance)

I hereby certify that (Name of Bidder) Has engaged my services as
(Designation) for the (Name of Project), if awarded to it.

As (Designation), I supervised the following completed projects
Similar to the contract under bidding:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

At present, I am supervising the following projects:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the National Power Corporation at least twenty one (21) days before the effective date of separation.

As (Designation), I know I will have to stay in the job site all the time to supervise and manage the Contract works to the best of my ability, and aware that I am authorized to handle only one (1) contract at a time.

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-06a

Page 2 of 2

I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of (Designation) therefore, if the contract is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as (Designation) in any future National Power Corporation bidding or employment with any Contractor doing business with the National Power Corporation.

(Name and Signature)
AFFIANT

REPUBLIC OF THE PHILIPPINES)
City/Municipality of _____)S.S.

SUBSCRIBED AND SWORN TO before me this _____, day of ____20____,
affiant exhibiting to me his/her Community Tax Certificate No. _____ issued on
_____ at _____, Philippines.

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

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-06b

**KEY PERSONNEL'S CERTIFICATE OF EMPLOYMENT
(CONSTRUCTION SAFETY AND HEALTH PRACTITIONER)**_____
Issuance Date**THE VICE PRESIDENT**National Power Corporation
Mindanao Generation
Maria Cristina, Iligan City

Dear Sir:

I am (Name of Nominee) a Licensed Engineer with
Professional License No. Issued on (date of issuance) at (place
of issuance)

I hereby certify that (Name of Bidder) Has engaged my services as
(Designation) for the (Name of Project), if awarded to it.

As (Designation), I supervised the following completed projects
Similar to the contract under bidding:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

At present, I am supervising the following projects:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the National Power Corporation at least twenty one (21) days before the effective date of separation.

As Safety and Health Practitioner, I know I will have to stay in the job site all the time and aware that I am authorized to handle only one (1) contract at a time.

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-06b

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I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of Safety and Health Practitioner, if the contract is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Safety and Health Practitioner in any future National Power Corporation bidding or employment with any Contractor doing business with the National Power Corporation.

(Name and Signature)
AFFIANT

REPUBLIC OF THE PHILIPPINES)
City/Municipality of _____)S.S.

SUBSCRIBED AND SWORN TO before me this _____, day of ____ 20____,
affiant exhibiting to me his/her Community Tax Certificate No. _____ issued on
_____ at _____, Philippines.

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

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-07

**KEY PERSONNEL
(FORMAT OF BIO-DATA)**

Give the detailed information of the following personnel who are scheduled to be assigned as full-time staff for the project. Fill up a form for each person.

1. Name : _____
 2. Date of Birth : _____
 3. Nationality : _____
 4. Education and Degrees : _____
 5. Specialty : _____
 6. Registration : _____
 7. Length of Service with the Firm : _____
- | | | | |
|------|----------|--------|--|
| Year | | | |
| from | (months) | (year) | |
| To | (months) | (year) | |
8. Years of Experience : _____
 9. If item 7 is less than the required number of years stated in BDS Section III- ITB Clause 10.4, give name and length of service with previous employers to satisfy the required number of years of experience within the last ten (10) years (attached additional sheet/s), if necessary:

Name and Address of Employer**Length of Service**

		Year(s) from		to	
		Year(s) from		to	
		Year(s) from		to	

10. Experience:

This should cover the past ten (10) years of experience. (Attached as many pages as necessary to show involvement of personnel in projects using the format below).

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-07
Page 2 of 2

1. Name : _____
2. Name and Address of Owner : _____
3. Name and Address of the Owner's Engineer (Consultant) : _____
4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project) : _____
5. Contract Amount Expressed in Philippine Currency : _____
6. Position : _____
7. Structures for which the employee was responsible : _____
8. Assignment Period :

from	(months)	(years)
to	(months)	(years)

Name and Signature of
Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

(Place and Date)

(The Authorized Representative)

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

BID DOCUMENTS

NAME OF PROJECT: SUPPLY AND INSTALLATION OF
PIEZOMETERS AT POWER INTAKE ULANGI 4 HEP DAM MONITORING
OF STRUCTURE STABILITY

SECTION IX. CHECKLIST OF TECHNICAL AND
FINANCIAL DOCUMENTS

PR NO./REF. NO. MG-RDW22-018/INFRA2022-RDW-002

Standard Form Number : NPCMGNSF-INFR - 08

LIST OF EQUIPMENT, OWNED OR LEASED AND/OR UNDER PURCHASE AGREEMENTS
(Based on the Minimum Equipment Required in the Bidding Documents)

Business Name : _____
Business : _____

Description	Model/Year	Capacity/ Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership / Lessor or Vendor
A. Owned							
i.							
ii.							
iii.							
iv.							
B. Leased							
i.							
ii.							
iii.							
iv.							
C. Under Purchased Agreements							
i.							
ii.							
iii.							
iv.							

Submitted by: _____
(Printed name & Signature)

Designation: _____

Date: _____

One of the requirements from the bidder to be included in its Technical Envelope is the list of its equipment units pledged for the contract to be bid, based on minimum equipment required in the bidding docs, which are owned (supported by proof/s of ownership), leased, and/or under purchase agreements (with corresponding engine numbers, chassis numbers and/or serial numbers), supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project.

*Standard Form No: NPCMGNSF-INFR-09a***Omnibus Sworn Statement (Revised)**
(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 or authorized representative of [Name of Bidder] with office address at [address of Bidder];
2. As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the National Power Corporation-Mindanao Generation, as shown in the attached duly notarized Special Power of Attorney;
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. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]
Affiant

[Jurat]

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

Standard Form No: NPCMGNSF-INFR-09b

Omnibus Sworn Statement (Revised)

PARTNERSHIP/COOP/CORP/JOINT VENTURE

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 to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the National Power Corporation-Mindanao Generation, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting**;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. *[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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

Standard Form No: NPCMGNSF-INFR-10

NET FINANCIAL CONTRACTING CAPACITY (NFCC)

- A. Summary of the Bidder's/Contractor'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 Bidder/Contractor

Signature of Authorized Representative

Date: _____

Standard Form No: NPCMGNSF-INFR-11

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

That this JOINT VENTURE AGREEMENT is entered in to by and between:
_____, of legal age, (civil status), authorized representative of
_____ and a resident of _____.

- and -

_____, of legal age, (civil status), authorized representative of
_____ and 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 FIRM**CAPITAL CONTRIBUTION**

That the capital contribution of each member firm:

NAME OF FIRM**CAPITAL CONTRIBUTION**

1

PHP

2

PHP

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

If the bidder is a joint venture, one of the requirements is the submission of a valid joint venture agreement.

*Standard Form No: NPCMGNSF-INFR-11**Page 2 of 2***ACKNOWLEDGEMENT**

BEFORE ME, a Notary Public for and in _____, Philippines, this _____ day of _____, 20____, 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 _____

If the bidder is a joint venture, one of the requirements is the submission of a valid joint venture agreement.

Standard Form No: NPCMGNSF-INFR-12

Bid Form for the Procurement of Infrastructure Projects**BID FORM**

Date : _____

Project Identification No. : _____

To: **The Vice President**
National Power Corporation
Mindanao Generation
Maria Cristina, Iligan City

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];
- d. The discounts offered and the methodology for their application are: [insert information];
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

¹ currently based on GPPB Resolution No. 09-2020

Standard Form No: NPCMGNSF-INFR-12

Page 2 of 2

- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the National Power Corporation-Mindanao Generation.
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

SECTION IX. CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

PR NO./REF. NO. MG-RDW22-018/INFRA2022-RDW-002

DETAILED COST ESTIMATE FORM

[illegible]

Designation

Standard Form No: NPCMGNSF-INFR-14

SUMMARY SHEETS OF MATERIALS PRICES, LABOR RATES AND EQUIPMENT RENTAL RATES

Name of Bidder: _____

I. Unit Prices of Materials

Materials Description	Unit	Unit Price
-----------------------	------	------------

II. Manpower Hourly Rates

Designation	Rate/Hr.
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III. Equipment Hourly Rental Rates

Equipment Description	Rental Rate/Hr.
-----------------------	-----------------

Name, Signature of Authorized Representative

Designation

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]
To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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

*[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant*

[Jurat]

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

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the "Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:

- a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
- b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that**

additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity]

[Insert Name of Supplier]

Acknowledgment

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

NPC MinGen

