



NATIONAL POWER CORPORATION

**MinGen**

12239402

**PHILIPPINE BIDDING DOCUMENTS  
(Procurement of INFRASTRUCTURE  
PROJECTS)**

**FOR  
CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT**

**P.R. No.: MG-ADM25-006**

**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.**

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



NATIONAL POWER CORPORATION

**MinGen****Invitation to Bid for Construction of Water Tight Septic Vault**

The **NATIONAL POWER CORPORATION-MINDANAO GENERATION**, through the approved Corporate Budget of NPC for CY 2025 intends to apply the sum of **Four Million Pesos (PHP4,000,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Construction of Water Tight Septic Vault at NPC Compound, Ditucalan, Iligan City (PR No. MG-ADM25-006/ Ref. No. INFRA2025-ADM-018)**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

1. The **NATIONAL POWER CORPORATION-MINDANAO GENERATION** now invites bids for the above Procurement Project. Completion of the Works is required **One Hundred Twenty (120) 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).
2. 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.
3. 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**.
4. A complete set of Bidding Documents may be acquired by interested Bidders on **July 21-August 11, 2025** 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 **Five Thousand Pesos (PHP5,000.00)**. 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:

Landbank Account name : NPC GENCO 5 COLLECTIONS FUND

Landbank Account 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.

5. The **NATIONAL POWER CORPORATION-MINDANAO GENERATION** will hold a Pre-Bid Conference on July 29, 2025 at 9:00 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. (083)-223-4604 or email [cmo\\_logistics\\_afd\\_mingen@napocor.gov.ph](mailto:cmo_logistics_afd_mingen@napocor.gov.ph).
6. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before August 11, 2025 at 9:30 AM. Late bids shall not be accepted.
7. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 15.
8. Bid opening shall be on August 11, 2025 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.
9. *This project requires submission of at least:*

- ***Certificate of Site Inspection***

*Note: Submission of bids shall be done manually*

10. 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.
11. For further information, please refer to:

**BAC Secretariat**  
**Contracts Management Office**  
**Logistics Division**  
**Mindanao Generation Headquarters**  
**National Power Corporation**  
**Maria Cristina, Iligan City**  
**[cmo\\_logistics\\_afd\\_mingen@napocor.gov.ph](mailto:cmo_logistics_afd_mingen@napocor.gov.ph)**

BID DOCUMENTS

SECTION I- INVITATION TO BID

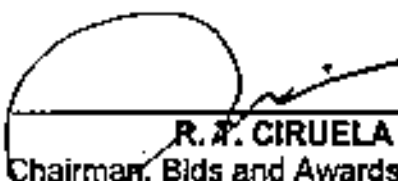


NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT SEPTIC  
VAULT

PR NO./REF. NO.: MG-ADM25-006/INFRA2025-ADM-018

Fax No.: (063)223-4604  
[www.napocor.gov.ph](http://www.napocor.gov.ph)

12. 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>

  
\_\_\_\_\_  
**R. A. CIRUELA**  
Chairman, Bids and Awards Committee  
Mindanao Generation Headquarters  
 

**Date of PhilGEPS Publication: 21 July 2025**

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

## 1. Scope of Bid

The Procuring Entity, **NATIONAL POWER CORPORATION-MINDANAO GENERATION** invites Bids for the **Construction of Water Tight Septic Vault at NPC Compound, Ditucalan, Iligan City, with Project Identification Number PR No. MG-ADM25-006 /Ref. No. INFRA2025-ADM-018**.

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 2025 in the amount of **Four Million Pesos (PHP4,000,000.00)**

2.2. The source of funding is:

a. GOCC and GFIs, the approved 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 tradable 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.



**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***

## 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: <b>Construction or Rehabilitation of Vertical Structure</b>		
7.1	Subcontracting is not allowed.		
10.3	None		
10.4	The key personnel must meet the required minimum years of experience set below:		
	<b><u>Key Personnel</u></b> <b>1 – Project Engineer</b>	<b><u>General Expertise</u></b> Licensed Civil Engineer	<b><u>Relevant Experience</u></b> At least five (5) years' experience in related works
	<b>1 - Construction Foreman</b>	B.S. Civil Engineering Graduate Civil Engineering Technology Graduate Non-graduate	At least three (3) years' experience in similar works At least five (5) years' experience in similar works At least five (5) years working experience as Construction Foreman in similar works
	<b>1 - Construction Safety and Health Officer (SO2)</b>	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). At least three

	(3) years experience as Safety Officer.  <i>The following key personnel information indicated above must be included in Standard Form NPCMGNSF-INFR-05: List of Key personnel proposed to be assigned to the Contract. Filled up Standard Form NPCMGNSF-INFR-05 must be included in the technical component envelope.</i>  Project Engineer or Foreman 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.  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.																		
10.5	The minimum equipment requirements are the following: <table><tr><td><u>Equipment</u></td><td><u>Capacity</u></td><td><u>Number of Units</u></td></tr><tr><td>Concrete Mixer</td><td>One Bagger</td><td>Four (4)</td></tr><tr><td>Concrete Vibrator, pen type</td><td>4 HP</td><td>Four (4)</td></tr><tr><td>Jack Hammer with air compressor</td><td>At least 50 CFM</td><td>One (1)</td></tr><tr><td>Mini Dump Truck</td><td>3.0 cu.m.</td><td>One (1)</td></tr><tr><td>Plate compactor</td><td>2.5 tons</td><td>One (1)</td></tr></table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	Concrete Mixer	One Bagger	Four (4)	Concrete Vibrator, pen type	4 HP	Four (4)	Jack Hammer with air compressor	At least 50 CFM	One (1)	Mini Dump Truck	3.0 cu.m.	One (1)	Plate compactor	2.5 tons	One (1)
<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>																	
Concrete Mixer	One Bagger	Four (4)																	
Concrete Vibrator, pen type	4 HP	Four (4)																	
Jack Hammer with air compressor	At least 50 CFM	One (1)																	
Mini Dump Truck	3.0 cu.m.	One (1)																	
Plate compactor	2.5 tons	One (1)																	
12	N/A																		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than <b>Eighty Thousand Pesos (PHP80,000.00), 2% of ABC</b> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than <b>Two Hundred Thousand Pesos (PHP200,000.00), 5% of ABC</b> , if bid security is in Surety Bond.																		
19.2	Partial bids are not allowed.																		
20	Additional documents to be submitted during Post- Qualification:  1. Other appropriate licenses and permits required by law and stated in the Bidding documents. a. Original Bank Statement year ending prior to bid opening; b. Valid and updated PhilGEPS Registration (Platinum Membership) (all pages):																		

	<p>c. <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;</b></p> <p>d. <b>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;</b></p> <p>e. <b>Valid Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR). Quarterly Income Tax Returns filed and paid through the BIR Electronic Filing and Payment System (eFPS);</b></p> <p>f. <b>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;</b></p> <p>g. <b>Philippine Contractors Accreditation Board (PCAB) License;</b></p> <p>h. <b>Board of Accountancy (BOA) Certificate;</b></p> <p>2. <b>Contract and/or Notice of Award as supporting documents for NPC MinGen Form No. NPCMGNSF-INFR-01, if applicable;</b></p> <p>3. <b>(a) Valid Professional Regulation Commission (PRC) license for professional personnel; (b) Certificate of Training with accreditation from DOLE for the Construction Safety &amp; Health Officer and (c) Diploma and/or Service Record/Certificate of Employment of previous and/or current employer for Construction Foreman; National Certificate II and Certificate of Employment of previous and/or current employer for other skilled workers required in the project - as supporting documents for NPC MinGen Form No. NPCMGNSF-INFR-05, if applicable.</b></p> <p>4. <b>Certificate of good performance and/or Statement of Work Accomplishment showing Target and Actual Accomplishments issued by the End-user/Implementing Agency of the ongoing projects listed in NPC MinGen Form No. NPCMGNSF-INFR-0, if applicable</b></p> <p>5. <b>Certificate of Site Inspection issued by Department Manager or his authorized representative.</b></p> <p>6. <b>Unamended product brochure/literature of the following materials:</b></p> <p style="text-align: center;">•</p>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, <u>prior to contract signing</u>, such as:</p> <p>a) <u>Approved construction schedule and S-curve</u></p> <p>b) <u>Approved manpower schedule</u></p>

	<ul style="list-style-type: none"><li>c) Construction methods</li><li>d) Approved equipment utilization schedule</li><li>e) Construction safety and health program approved by the DOLE</li><li>f) Approved Project Evaluation Review Technique/Critical Path Method (PERT/CPM)</li></ul>
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## ***Section IV. General Conditions of Contract***

## **1. Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuance s, 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 2018 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 2018 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. Day works**

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 Day works 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

<b>GCC Clause</b>	
<b>2</b>	<b>Sectional completion is not specified.</b>
<b>4.1</b>	<b>The Procuring Entity shall give possession of the Site to the Contractor <i>on the start date</i>.</b>
<b>6</b>	<b>The site investigation reports are: NONE</b>
<b>7.2</b>	<b>Fifteen (15) years</b>
<b>10</b>	<b>Day works are not applicable to the contract.</b>
<b>11.1</b>	<b>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.</b>
<b>11.2</b>	<b>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.</b>
<b>13</b>	<b>The amount of the advance payment is 15% of contract amount and paid in lump sum.</b>
<b>14</b>	<b>No further instruction</b>
<b>15.1</b>	<b>The date by which operating and maintenance manuals are required is upon completion of the project.</b>  <b>The date by which "as built" drawings are required is upon completion of the project.</b>
<b>15.2</b>	<b>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.</b>

## ***Section VI. Specifications***

## **PROJECT HIGHLIGHTS**

### **PH-1.0 GENERAL**

NPC compound at Ditucalan, Iligan City has at least fifty-one units of septic vault with one (1) unit shared by at least two (2) or more households. As per DILG Memorandum Circular 2019-62 "Policy and Guidelines on Sewerage Treatment and Sewage Management System requiring all LGU's for the implementation of sewerage system in accordance with Section 20 of Republic Act No. 9275 or the Clean Water Act of 2004 and Presidential Decree No. 198 or Provincial Water Utilities Act of 1973.

This project aims to comply with the requirements stated in RA9275 and PD198.

### **PH-2.0 PROJECT LOCATION**

The project is located at NPC Compound, Ditucalan, Iligan City

### **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 Contractors complete construction camp and other facilities;**
- B. CONSTRUCTION SAFETY AND HEALTH PROGRAM (To provide safety signages and PPE's on the whole duration of the project. First aid kit and 10lbs Fire Extinguisher must be present at the site and shall be turned-over to NPC after the completion of the project, if not used.)**
- C. MATERIALS AND STRENGTH TESTING**
- D. CLEARING, CUTTING OF TREES, DEMOLITION AND DISPOSAL WORKS**
- E. EXCAVATION WORKS (BOULDERS, ROCKS AND SOIL)**
- F. BACKFILLING WORKS**
- G. REINFORCED CONCRETE WORKS**
- H. INSTALLATION OF SANITARY PIPE INCLUDING FITTINGS**
- I. Demobilization including clearing of site/demolition of Contractor's camp facilities.**

### **PH-4.0 CONTRACT PERIOD**

The contractor shall complete the works as specified in Clause 3 within One Hundred Twenty (120) calendar days. The total contract duration is inclusive of

✓ six (6) unworkable days considered unfavorable for the execution of work 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 Contractor's Accreditation Board  
(PCAB) license of at least Category C or D -- General Building with inter-  
agency registration of at least Small B -- Sewerage and Sewage System



## **TECHNICAL SPECIFICATIONS**

### **TS – 01 GENERAL REQUIREMENTS**

#### **TS – 1.1 Scope**

This section covers the construction and/or maintenance of access roads, drainage system and other appurtenant structures, moving-in of the Contractor's construction equipment, setting up of the Contractor's camp and the disposition of the Contractor's various facilities at the end of the Contract.

#### **TS – 1.2 Moving-in**

The contractor shall bring to the site all his necessary construction equipment and plant and install all stationary construction equipment and plant at location and in the manner approved by the NPC. The Contractor shall submit sufficient detailed plans showing the proposed location of such stationary equipment and plant and other pertinent data. No installation of such stationary equipment shall be undertaken unless the corresponding plans have been approved by the NPC.

#### **TS – 1.3 Contractor's Camp Facilities**

The Contractor 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.

#### **TS – 1. Water Supply**

The Contractor shall, at his own expense, be responsible for the supply, installation, operation and maintenance of a safe and adequate supply of drinking and domestic water.

#### **TS – 1.5 Sewerage Disposal and Sanitation**

The Contractor shall, at his own expense, be responsible for the installation, operation and maintenance of an adequate sewerage

disposal and sanitation system and shall provide adequate toilet and wash-up facilities for his employees at his camp and in the areas where work is being carried out.

The Contractor shall execute the work with due regard to adequate sanitary provisions and applicable codes and shall take all necessary steps to prevent the pollution of water in any spring, river, or other sources of water supply. All toilets or wash-up facilities shall be subject to the prior and continuing approval of the NPC.

#### **TS – 1.6 Fire Protection**

The Contractor shall observe all necessary precautions against fire, shall provide and maintain at his own expense, portable fire-fighting equipment he may deem necessary, and shall comply with all applicable laws of the Philippines relating thereto.

In the event of an uncontrollable fire occurring in the area of the Contractor's operation, the Contractor shall have to extinguish the fire immediately at his own expense, to the full extent of the manpower and equipment employed under the contract at the time of the fire.

The Contractor shall indemnify NPC against all liabilities, claims, damages and/or lawsuits arising thereto.

#### **TS – 1.7 Construction Power**

The Construction shall be responsible for providing his own electric power supply required for construction and erection/installation. If power is available from NPC and should the Contractor elect to utilize the NPC's power supply, he shall make an arrangement with NPC concerned group as to the billing rates and other requirements needed for direct connection to NPC.

#### **TS - 1.8 Camp Security**

The Contractor shall provide his own security force to the extent that he deems necessary for maintaining peace and order in the camp and work areas and to safeguard materials and equipment. Nothing under the provisions of this paragraph shall relieve the Contractor from full responsibility for the maintenance of peace and order and protection of life and property in all areas where he operates.

#### **TS – 1.9 Construction Material Storage**

The Contractor is required to put up warehouse(s) with capacities sufficient to store the construction materials required in the work. the warehouse(s) shall be specifically for this contract, notwithstanding his other facilities in the site that may serve the purpose.

#### **TS – 1.10 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.

#### **TS – 1.11 Measurement and Payment**

No separate measurement and payment will be made for the Contractor's Construction Facilities. The entire cost thereof shall be included in the various pay items in the Bill of Quantities.

### **TS – 2.0 CARE OF WATER DURING CONSTRUCTION**

#### **TS – 2.1 Scope**

In accordance with the specifications contained in this section or otherwise directed, the Contractor shall construct and maintain all necessary temporary drainage ditches and other temporary protective works and he shall also furnish, install, maintain and operate necessary pumping equipment and other devices to protect construction operation free from water coming from any source, including rain.

#### **TS – 2.2 Drainage and Dewatering**

The Contractor shall be responsible for dewatering foundation areas so that work can be carried out on a suitably dry condition. The Contractor shall construct drainage ditches, holes, culverts, furnish, maintain and operate at his own expense all necessary pumps and other dewatering devices to keep all work area free from water.

After the work is completed and before it is accepted by the NPC, the Contractor shall remove all pumping equipment and shall

remove, fill or plug all temporary drainage structures as directed, all at his expense.

#### **TS – 2.3 Measurement and Payment**

No separate measurement and payment will be made for the Care of Water During Construction operations. The cost of furnishing, constructing, maintaining, operating and removing of temporary drainage structure, pumping system and other dewatering devices necessary to keep construction operations free from water, shall be included in the various pay items in the Bill of Quantities for structures where such care of water is required.

**TS - 03 CONSTRUCTION SAFETY AND HEALTH PROGRAM****TS – 3.1 Scope**

This Section pertains to the environmental and safety provisions, requirements and conditions that shall govern during the execution of all civil works under this project.

**TS – 3.2 General Conditions**

The Contractor shall ensure compliance with the applicable environmental and safety regulations, as well as ECC conditions, during Installation/construction of this project through the implementation of measures that include, but not limited to the following:

- a. Designate a Safety Officer and a Pollution Control Officer who shall respectively handle all safety and environmental concerns of the project.
- b. Prepare and submit Construction Safety Health Plan (CSHP)
- c. Properly manage debris and various waste generated during Installation/construction, such as the following:
  - Dispose of demolition and construction debris in a designated or NPC approved disposal area(s);
  - Stockpile (and cover if possible) or haul to the designated and/or pre developed dump sites (spoil disposal areas) that shall be provided with suitable drainage-equipped with sediments traps, stripped top soil, spoils from quarry/borrow sites and excavated materials;
  - Segregate solid wastes, such as empty cement sacks, scraps of tin or wood, used wires and other domestic, garbage, for recycling or storage in NPC-approved temporary storage areas and further disposal to LGU-designated disposal sites
  - Properly handle; store and dispose off, through DENR-accredited transporter/treater, hazardous wastes i.e. used oils, paints, thinner, Etc.

- d. Limit construction activities that generate excessive noise to daytime works only to prevent nuisance to nearby residents during rest hours.
- e. As far as practicable, undertake site stripping, grading and excavation during dry weather.
- f. Construction/Installation shall be carried-out in a manner where landslides and erosions are minimized.
- g. Avoid unnecessary opening/clearing of areas outside construction sites or destruction of vegetable cover, especially cutting of existing trees; and to revegetate disturbed areas.
- h. Spray water, whenever and wherever necessary, to minimize dust generation.
- i. Provide PPE's and other safety provisions required by DOLE, for its project/site works.
- j. Submit proof of Tool Box meeting that was conducted in the course of the project. This will be attached on the contractor's progress billing.
- k. Composition of Occupational Safety and Health Team shall be displayed on the construction site or on the camp facilities that is visible to NPC Inspectors and the construction workers. The size of the tarpaulin shall be 1.0m x 1.0m
- l. First aid kit (1 set) and ABC fire extinguishers (1set-10lbs) shall be present in the camp facilities and shall be turn-over to NPC after the completion of the project.

### **TS – 3.3 Measurement and Payment**

Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of this requirements.

**TS – 4.0 MATERIALS AND STRENGTH TESTING****1. SAMPLING AND TESTING OF CONCRETE**

The Contractor shall furnish all materials, either separately or mixed, as required by NPC. Selection of materials and the making of test specimens shall be made under the supervision of NPC and delivered to NPC laboratory or any NPC accredited testing center at the Contractor's expense.

The expense of making and curing all concrete specimens including the materials comprising the concrete specimens shall be borne by the Contractor. The cost of shipping and testing the concrete shall likewise be at the expense of the Contractor.

No concreting work on the project will be permitted to be done until NPC signifies in writing that, following the performance of the necessary tests, he gives his approval to the use of all materials involve in making the concrete.

Test cylinders shall be prepared from the concrete samples and tested. At least one set of (4) four cylinder samples shall be made for each major structural member. Two (2) cylinders shall be tested at 28 days for specification compliance and one shall be tested at 7 and 14 days respectively for information. The acceptance test result shall be the average of the strength of the two cylinders tested for 28 days.

The compressive strength of the concrete shall be deemed acceptable if the average of the three consecutive strength test results is equal to or exceeds the specified strength and no individual test falls below the specified strength by more than 3.50 MPa.

Concrete deemed to be not acceptable using the above criteria maybe rejected unless the Contractor can provide evidence, by means of core tests, that the quality of concrete represented by the failed test result is acceptable in place. Three (3) cores shall be taken in accordance with ASTM C42 and soaked for 24 hours prior to testing. Concrete in the area represented by the cores will be deemed acceptable if the average strength of the cores is equal to at least 85% of and no single core is less than 75% of the specified strength.

**2. PHILIPPINE NATIONAL STANDARD (PNS) AND IMPORT COMMODITY CLEARANCE FOR CONSTRUCTION MATERIALS**

A. All construction materials to be used in the project that are purchased locally shall pass the following PNS and/or ICC standard:

**1. Cement**

- **PNS 07:2017 – Portland Cement**
  - Includes types: Type I (general use), Type II (moderate sulfate resistance), etc.
- 2. Reinforcing Steel Bars (Rebars)**
  - **PNS 49:2020 – Steel bars for concrete reinforcement**
    - Grades: 275, 415, and 500 MPa.
- 3. Concrete Hollow Blocks (CHB)**
  - **PNS 26:2019 – Concrete masonry units – Load-bearing concrete hollow blocks – Specification**
    - Class A: 800 psi
    - Class B: 700 psi
    - Class C: 350 psi
- 4. Aggregates (Sand and Gravel)**
  - **PNS ASTM C33 / C33M – Standard Specification for Concrete Aggregates**
- 5. Ready-Mixed Concrete**
  - **PNS ASTM C94 / C94M – Standard Specification for Ready-Mixed Concrete**
- 6. Structural Steel**
  - **PNS 857:2020 – Hot-rolled structural steel sections**
    - Includes I-beams, H-beams, angles, channels.
- 7. Lumber and Wood Products**
  - **PNS 193:2020**
- 8. Fire-Resistant Construction Materials**
  - **PNS ISO 834 – Fire-resistance tests**
- 9. Galvanized Iron Pipe**
  - **PNS 26:1992**



**10. Electrical Wires**

- PNS 260:2002 – Annealed Copper Wires
- PNS 35:2013 – PVC Insulated Copper Wires and Cables (Rated Voltage 600V)
- PNS UL Standards for Wire and Cable

**Notable Standards:**

- PNS UL 66:2023 – Fixture Wire,
- PNS UL 83A:2023 – Fluoropolymer Insulated Wire,
- PNS UL 854:2023 – Service-Entrance Cables,
- PNS UL 1650:2023 – Portable Power Cable,
- PNS UL 444:2023 – Communications Cables

**11. Sanitary Pipes and Fixtures**

- PNS 1950:2003 – PVC-U Sanitary Pipes
- PNS 156:2010 – Sanitary Wares

**12. Lighting Fixtures**

- PNS IEC 1326:1992 – Luminaires: Part 1 – General Requirements and Tests
- PNS IEC 62560:2012 – Self-Ballasted LED Lamps for General Lighting Services
- PNS 2050-5:2006 – Lamps and Related Equipment: Energy Labeling Requirements – Part 5: Luminaires

**B. All construction materials to be used in the project that are purchased abroad shall pass the ICC standard. All materials shall have an ICC mark to guarantee that the product has undergone inspection and testing to verify its compliance with the relevant PNS. This certification helps protect NPC as consumer from substandard and potentially hazardous construction materials**

1. **Cement and Blended Hydraulic Cement:** Must comply with PNS ASTM C150:2019 and PNS ASTM C595:2019 standards.
2. **Steel Products:** Including deformed and non-deformed bars, which must adhere to PNS ASTM A615:2019 and PNS ASTM A706:2019 standards.
3. **Ceramic Tiles:** Must meet PNS ISO 13006:2018 standards.
4. **Galvanized Iron Sheets:** Should comply with PNS ASTM A653/A653M:2019 standards.

5. PVC Pipes and Fittings: Must conform to PNS ISO 4422:2018 standards.
6. Sanitary Wares: Including water closets, lavatories, and bidets, which should meet PNS 156:2010 standards

All other construction materials that are not listed and are purchased abroad shall have ICC certification to ensure that imported construction materials meet the required safety, quality, and performance standards set by the DTI-BPS. This protects consumers and ensures the integrity of construction projects.

#### **Measurement and Payment**

No separate measurement and payment will be made for the Materials and Strength and Testing. The entire cost thereof shall be included in the related pay items in the Bill of Quantities.

### **TS-05 CLEARING, CUTTING OF TREES, DEMOLITION AND DISPOSAL WORKS**

#### **Description**

This item shall consist of the removal wholly, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipelines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits.

#### **Construction Requirements**

##### **General**

The Contractor shall perform the work described above, within and adjacent to the roadway, as shown on the Plans or as directed by the NPC Engineer. All designated salvable material shall be removed, without unnecessary damage, in sections or pieces which may be readily transported, and shall be stored by the Contractor at specified places on the project. Non-perishable material may be disposed of outside the limits of view from the project. Basements or cavities left by the structure removal shall be filled with acceptable material to the level of the surrounding ground and, if within the prism of construction, shall be compacted to the required density.

##### **Cutting of Trees, Removal of Existing Buildings and appurtenant structures**

All existing structures shall be removed down to the natural ground level. Where such portions of existing structures lie wholly or in part within the limits

for a new structure, they shall be removed as necessary to accommodate the construction of the proposed structure.

All salvaged material shall be stored in the designated area directed by the NPC Engineer and turn-over to the Central Warehouse.

#### **Measurement and Payment**

Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of this requirements.

### **TS - 6 EXCAVATION AND BACKFILLING WORKS**

#### **General**

The work to be executed under this section shall include the furnishing of all, labor, tools and other facilities necessary for the satisfactory performance of all work necessary to complete the works specified in this specifications.

This item shall include necessary diverting of livestreams, bailing, pumping, draining, sheeting, bracing, and the necessary construction of cribs and cofferdams, and furnishing the materials therefore, and the subsequent removal of cribs and cofferdams and the placing of all necessary backfill.

It shall also include the furnishing and placing of approved foundation fill material to replace unsuitable material encountered below the foundation elevation of structures.

#### **Construction Requirements**

The Contractor shall notify the Engineer sufficiently in advance of the beginning of any excavation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacent to the structure shall not be disturbed without permission of the Engineer.

Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown.

Boulders, logs, and other objectionable materials encountered in excavation shall be removed.

When the footing is to rest on material other than rock, excavation to final grade shall not be made until just before the footing is to be placed. When the foundation material is soft or mucky or otherwise unsuitable, as determined by the Engineer, the Contractor shall remove the unsuitable material and backfill with approved granular material. This foundation fill shall be placed and compacted in 150mm (6 inches) layers up to the foundation elevation.

Prior to backfilling works, all necessary clearing and grubbing in that area shall have been performed.

Where shown on the Plans or directed by the Engineer, the surface of the existing ground shall be compacted to a depth of 150mm (6 inches) and to the specified requirements of this Item.

#### **MEASUREMENT AND PAYMENT**

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

#### **TS – 07 REINFORCED CONCRETE WORKS**

##### **GENERAL**

The work to be undertaken under this Section shall include all labor, materials, equipment, plant and other facilities and the satisfactory performance of all work necessary to complete all concrete work shown on the drawings and specified herein.

##### **MATERIALS**

###### **a) Cement**

Except as maybe otherwise provided in these specifications, cement shall conform to the "Specification for Portland Cement" (ASTM C 150 - Latest Revision) and shall be Type I

###### **b) Concrete Aggregates**

- 1.) Concrete aggregates shall be well graded, clean, hard particles of gravel or crushed rock conforming with the "Standard Specifications for Concrete Aggregates (ASTM C - 33 Latest Revision).

- 2.) The maximum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between form and not larger than three fourth (3/4) of the minimum clear spacing between individual reinforcing bars or bundles of bars, and in no case larger 5.1 cm (2 in) in diameter except that larger diameter may be allowed in massive concreting with written permission from the Engineer.

**c) Water**

Water used in mixing concrete shall be clean and free from injurious amounts of oils, acids, alkali, organic materials or other substances that may be deleterious to concrete or steel.

**d) Reinforcing Steel**

All reinforcing steel bars used shall be new and free from rust, oil, defects, greases or kinks. They shall conform to the latest edition of ASTM "SPECIFICATIONS FOR DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT" Grade 40 as shown or latest equivalent Philippine Bureau of Standard Specifications. Deformed Steel Bars shall have the following unit weights:

SIZE (mm)	Kg/m	SIZE (mm)	Kg/m
6	0.222	20	2.466
8	0.395	25	3.854
10	0.616	28	4.833
12	0.888	32	6.313
16	1.579	36	7.991

**Proportioning and Strength of Structural Concrete**

The concrete materials shall be proportioned in accordance with the requirements for each class of concrete as specified in Table 405.2, using the absolute volume method as outlined in the American Concrete Institute (ACI) Standard 211.1, "Recommended Practice for Selecting Proportions for Normal and Heavy weight Concrete". Other methods of proportioning may be employed in the mix design with prior approval of the Engineer. The mix shall either be designed or approved by the Engineer. A change in the source of materials during the progress of work may necessitate a new mix design.

The strength requirements for each class of concrete shall be as specified in Table 405.2.

Table 405.2-Composition and Strength of Concrete for Use in Structures

Class Of Concrete	Minimum Cement Content <sup>3</sup> kg	Maximum Water/Cement Ratio kg/kg	Consistency Range in Slump mm (inch)	Designated Size of Coarse Aggregate Square Opening Std. m	Minimum Compressive Strength of 150x300mm Concrete Cylinder Specimen at
A	380 (9 bags)	0.53	50-100 (2-4)	37.5-4.75 (1-1/2"-No.4)	20.7 (3000)
B	320 (8 bags)	0.58	50-100 (2-4)	50-4.75 (2"-No.4)	16.5 (2400)

\* The measured cement content shall be within plus or minus 2 mass percent of the design cement content.

\*\* Based on 40kg/bag

### Consistency

Concrete shall have a consistency such that it will be workable in the required position. It shall be of such a consistency that it will flow around reinforcing steel but individual particles of the coarse aggregate when isolated shall show a coating of mortar containing its proportionate amount of sand. The consistency of concrete shall be gauged by the ability of the equipment to properly place it and not by the difficulty in mixing and transporting. The quantity of mixing water shall be determined by the Engineer and shall not be varied without his consent. Concrete as dry as it is practical to place with the equipment specified shall be used.

### Mixing Concrete at site

Concrete mixers may be of the revolving drum or the revolving blade type and the mixing drum or blades shall be operated uniformly at the mixing speed recommended by the manufacturer. The pick-up and throw-over blades of mixers shall be restored or replaced when any part or section is worn 20 mm or more below the original height of the manufacturer's design. Mixers and agitators which have an accumulation of hard concrete or mortar shall not be used.

When the aggregate contains more water than the quantity necessary to produce a saturated surface dry condition, representative samples shall be taken and the moisture content determined for each kind of aggregate.

The batch shall be so charged into the mixer that some water will enter in advance of cement and aggregate. All water shall be in the drum by the end of the first quarter of the specified mixing time.

Cement shall be batched and charged into the mixer so that it will not result in loss of cement due to the effect of wind, or in accumulation of cement on surface of conveyors or hoppers, or in other conditions which reduce or vary the required quantity of cement in the concrete mixture.

The entire content of a batch mixer shall be removed from the drum before materials for a succeeding batch are placed therein. The materials composing a batch except water shall be deposited simultaneously into the mixer.

All concrete shall be mixed for a period of not less than 1-1/2 minutes after all materials, including water, are in the mixer. During the period of mixing, the mixer shall operate at the speed for which it has been designed.

The first batch of concrete materials placed in the mixer shall contain a sufficient excess of cement, sand, and water to coat inside of the drum without reducing the required mortar content of the mix. When mixing is to cease for a period of one hour or more, the mixer shall be thoroughly cleaned.

## FORMS

### General

The Contractor shall provide forms to confine the concrete and shape it to the required lines. Plastering in general, shall not be allowed. The Contractor shall assume full responsibility for the adequate design of all forms and shall be smooth surface. However, forms which in the opinion of the Engineer are unsafe or inadequate in any respect may at any time be condemned by the Engineer; and the Contractor shall promptly remove the condemned forms from the work and replace them at his own expense. A sufficient number of forms of each kind shall be provided to permit the rate of progress to be maintained. Whenever in the opinion of the Engineer, additional forms are necessary to maintain the progress schedule such additional forms shall be provided by the Contractor at his own expense. The design and inspection of concrete forms, false work, and shoring shall comply with applicable safety regulations, and as may be specified in the General Conditions of these specifications.

### Materials

## SECTION VI- SPECIFICATIONS

- a. Except as otherwise expressly approved by the Engineer, all lumber brought at the job site for use as forms, shoring, or bracing shall be new material.
- b. All forms shall be smooth surface forms and shall be of the following materials:

Walls	-	Steel or plywood panels
Columns	-	Steel, plywood or surfaced lumber
Roof	-	Plywood
All other work	-	Steel panels, plywood or surfaced lumber

Plywood shall be manufactured especially for concrete form work and shall be oiled with an approved form oil and edge sealed.

- c. Column forms shall be checked for plumpness before concrete is deposited. Hand holes shall be provided in column forms at lowest points of pour lifts to render this space accessible for cleaning.
- d. All girder, beam and slab centerlines shall be crowned at least 6.3mm (1/4in) in all directions for every 4.57 meters (15ft) span. However, cambers from all cantilevers shall be as indicated on the plans or obtained from the Engineer by the Contractor.
- e. The following are the tolerance limits for formwork:

1. Variation from plumb:

In line and surfaces of columns, piers, walls and risers:

In 3.05m (10ft)	6.3mm (1/4")
6.10m (20ft)	9.5mm (3/8")
12.20m (40ft) or more	19.0mm (3/4")

For exposed corner columns and/or piers, control joint grooves and other conspicuous lines:

In any bay 6.10m (20ft)	6.3mm (1/4")
max In 12.20m (40ft) or more	13.00mm (1/2")



2. Variation in cross-sectional dimensions of columns and piers, beams, and thickness of walls and slabs:

Minus	6.3mm (1/4")
Plus	13.00mm (1/2")

3. Footings

Variations in dimensions on drawings (applied to concrete only and not to reinforcing bars or dowels):

Minus	13.00mm (1/2")
Plus	50.00mm (2")

Misplacement of eccentricity, two percent (2%) of the footings width in the direction of misplacement but not to exceed 50.0mm (2").

Reduction in thickness	Five percent (5%) at specified thickness
------------------------	--

4. Variation in steps:

a) In a flight of steps

Rise	3.2mm (1/8")
Tread	6.3mm (1/4")

b.) In consecutive steps

Rise	1.6mm (1/16")
Tread	3.2mm (1/9")

When required for another work, or when requested by the Owner or his Engineer, the Contractor shall remove or relocate shoring; but existing shoring shall not be disturbed until new shores are set in position.

### Removal of Forms

Directions of the Engineer concerning the removal of forms shall be strictly followed. Forms and shoring shall not be removed until concrete is adequately set and strong enough to withstand anticipated loading and this work shall be done with care so as to avoid injury to the concrete. No heavy loading on green concrete will be permitted. In the case of roof slabs and above-ground floor slabs, forms

shall remain in place until test cylinders for the roof concrete attain a minimum compressive strength of 15.52 MPa (2,250 psi) provided that no forms shall be disturbed or removed under an individual panel or unit before the concrete in the adjacent panel or unit has attained a strength of 15.52 MPa (2,250 psi) and has been in place for a minimum of even (7) days. The time required to establish said strength will be determined by the Engineer who will make several test cylinders for this purpose from concrete used in the first group of roof panels placed. If the time so determined is more than the seven-day minimum, then it shall be used as the minimum length of time. Forms for all vertical walls and columns shall remain in place at least three (3) days after the concrete has been placed. Forms for all parts of the work not specifically mentioned herein shall remain in place for prods of time as ordered by the Engineer.

### **TAMPING AND VIBRATING**

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.

Care shall be used in placing concrete around waterstops. The concrete shall be carefully worked by rodding and vibrating to make sure that all air and rock pockets have been eliminated. Where flat-strip type waterstops are used, the concrete shall be worked under the waterstops are used, the concrete shall be worked under the waterstops by hand making sure that all air and rock pockets have been eliminated.

Concrete in wall shall be internally vibrated and at the same time rammed, stirred, or worked with suitable appliances, tamping bars, shovels, or forked tools until it completely fills the forms or excavations and closes snugly against all surfaces. Subsequent layers previously placed have been worked thoroughly as specified. Except in special cases where their use is deemed impracticable by the Engineer, the Contractor shall use internally vibrated, high speed power vibrators not less than 8000 rpm of an approved immersion type in sufficient numbers, with standby units as required, to accomplish the results herein specified within fifteen (15) minutes after concrete of the prescribed consistency is placed in the forms. The vibrating head shall be kept from contact with the surfaces of the forms. Care shall be taken not to vibrate concrete excessively or to work it in any manner that causes segregation of its face.

### **CARE AND REPAIR OF CONCRETE**

The Contractor shall protect all concrete against injury or damage from excessive heat, lack of moisture, over stress, or any other cause until final acceptance by

the Owner. Particular care shall be taken to the drying of concrete and to avoid roughening or otherwise damaging the surface. Any concrete found to be damaged or which may have been originally defective at any time prior to the final acceptance of the complete work, or which departs from the established line or grade, or which for any other reason does not conform with the specifications shall be satisfactorily repaired or removed and replaced with acceptable concrete at the Contractor's expense.

### **FINISH OF CONCRETE SURFACE**

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 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.

Except as otherwise provided herein, unformed top surfaces of concrete shall be brought to uniform surfaces and worked with suitable tools to a reasonably smooth woodfloat finish. Excessive floating of surfaces while the concrete is plastic will not be permitted. All surfaces shall be placed monolithically with the base slab. Dusting of dry cement and sand on the concrete surface to absorb excess moisture will not be permitted. Floor slabs and exposed tops of walls and curbs shall be given a steel trowel finish. At the Contractor's option, the above mentioned floor slabs may be finished with a power float after screeding. Subsequent to the aforementioned finish, all sloping surfaces of floor slabs shall be lightly boomed to provide a skid resistant surface.

### **TREATMENT OF SURFACE DEFECTS**

As soon as forms are removed, all exposed surfaces shall be carefully examined and any irregularities shall be immediately rubbed or ground in a satisfactory manner in order to secure a smooth, uniform, and continuous surface. Plastering or coating of surfaces to be smoothed will not be permitted. No repairs shall be made until after inspection by the Engineer, and then only in strict accordance with his directions. Concrete containing voids, holes, honeycombing, similar depression defects shall be completely removed and replaced; provided that where required or approved by the Engineer, defects shall be repaired with gunite or with cement mortar placed by an approved compressed air mortar gun. In no case will extensive patching of honeycombed concrete be permitted. All repairs and replacements herein specified shall be promptly executed by the Contractor at his own expense.

### **DEPOSITING CONCRETE**

Depositing:

Depositing shall be done without segregation, remanding or flowing of concrete. It shall be done with the use of buggies, buckets or wheelbarrows. Use of chutes will not be allowed except to transfer concrete from hoppers to buggies, wheelbarrows or buckets in which case shall not exceed 20 feet in aggregate length placing of concrete with a free drop of fall of more than 5 feet are not allowed. Conveyors when used shall be kept full of concrete and ends shall be kept buried in the newly placed concrete as pouring progresses.

#### **Vibrations:**

No placing of concrete will be allowed without vibrators. Segregation due to over vibration shall be avoided.

#### **Construction Joints:**

If possible concreting shall be done continuous until section is complete. When stoppage of concrete operations occur, construction joints shall be placed either horizontally or vertically as indicated by the Engineer and provided with shear keys or dowels to develop bond. Construction joints shall be per plan or shall be approved or as directed by the Engineer.

### **REINFORCING STEEL**

Steel reinforcement shall be stored above the surface of the ground upon platforms, skids, or other supports and shall be protected as far as practicable from mechanical injury and surface deterioration caused by exposure to conditions producing rust. When placed in the work, reinforcement shall be free from dirt, detrimental rust, loose scale, paint, grease, oil, or other foreign materials. Reinforcement shall be free from injurious defects such as cracks and laminations. Rust, surface seams, surface irregularities or mill scale will not be cause for rejection, provided the minimum dimensions, cross sectional area and tensile properties of a hand wire brushed specimen meets the physical requirements for the size and grade of steel specified.

#### **Bending**

All reinforcing bars requiring bending shall be cold-bent to the shapes shown on the Plans or required by the Engineer. Bars shall be bent around a circular pin having the following diameters (D) in relation to the diameter of the bar (d):

Nominal diameter, d, mm	Pin diameter(D)
10to20	6d
25to28	8d

Bends and hook sin stirrups or ties may be bent to the diameter of the principal bar enclosed therein.

### Placing and Fastening

All steel reinforcement shall be accurately placed in the position shown on the Plans or required by the Engineer and firmly held there during the placing and setting of the concrete. Bars shall be tied at all intersections except where spacing is less than 300mm in each directions. In which case, alternate intersections shall be tied. Ties shall be fastened on the inside.

Distance from the forms shall be maintained by means of stays, blocks, ties, hangers, or other approved supports, so that it does not vary from the position indicated on the Plans by more than 6mm. Blocks for holding reinforcement from contact with the forms shall be precast mortar blocks of approved shapes and dimensions. Layers of bars shall be separated by precast mortar blocks or by other equally suitable devices. The use of pebbles, pieces of broken stone or brick, metal pipe and wooden blocks shall not be permitted. Unless otherwise shown on the Plans or required by the Engineer, the minimum distance between bars shall be 40mm. Reinforcement in any member shall be placed and then inspected and approved by the Engineer before the placing of concrete begins. Concrete placed in violation of this provision may be rejected and removal may be required. If fabric reinforcement is shipped in rolls, it shall be straightened before being placed. Bundled bars shall be tied together at not more than 1.8m intervals.

### Splicing

All reinforcement shall be furnished in the full lengths indicated on the Plans. Splicing of bars, except where shown on the Plans, will not be permitted without the written approval of the Engineer. Splices shall best staggered as far as possible and with a minimum separation of not less than 40 bar diameters. Not more than one-third of the bars may be spliced in the same cross-section, except where shown on the Plans.

Unless otherwise shown on the Plans, bars shall be lapped a minimum distance of:

Splice Type	Grade40 min.lap	Grade60 min.lap	But not less than
Tension	24bardia	36bardia	300mm

Compressio	20bardia	24bardia	300mm
------------	----------	----------	-------

In lapped splices, the bars shall be placed in contact and wired together. Lapped splices will not be permitted at locations where the concrete section is insufficient to provide minimum clear distance of one and one-third the maximum size of coarse aggregate between the splice and the nearest adjacent bar. Welding of reinforcing steel shall be done only if detailed on the Plans or if authorized by the Engineering writing. Spiral reinforcement shall be spliced by lapping at least one and a half turns or by butt welding unless other wise shown on the Plans.

## MEASUREMENT AND PAYMENTS

"Class A" concrete shall be measured by the cubic meter (cu.m.) of concrete completed in place and accepted.

Measurement will be of the actual number of cubic meter within the neat lines of the structure as shown in the plans or revised by authority of the Engineer. The volume of concrete measured as determined above shall be paid for at the contract unit price per cubic meter (cu.m.) which price and payment shall be full compensation mixing, placing, finishing and curing the concrete and all labor, equipment, tools and incidentals necessary to complete the item and accepted.

Payments for the reinforcement placed shall be included in the contract unit price per cubic meter (cu.m.) of concrete which price and payment shall be the full compensation of all labor, equipment, tools and incidentals necessary to complete the item and accepted.

Concrete forms placed shall be included in the contract unit price per cubic meter (cu.m.) of concrete which price and payment shall be the full compensation of all labor, equipment, tools and incidentals necessary to complete the item and accepted.

## TS-5 SANITARY PIPE WORKS

### MATERIAL

- a) All materials shall be new and are subject to the approval of the Engineer. Only materials meeting specifications and/or the Engineer's approval will be used.
- b) POLYVINYLCHLORIDE SANITARY SEWER PIPES shall be class 12454-B to 12454-C extrusion compound as defined in ASTM D1784. Fittings shall be flexible for injected with integrated seal or fabricated

from regular extruded pipes. Pipes and fittings shall be supplied with integral push-on bell complete with elastomeric gasket ring on one end and plain beveled on the other end. All PVC pipe shall be SDR 34 type.

## CONSTRUCTION METHODS

### a) SAFETY PROVISIONS AND TRAFFIC CONTROL

The Contractor shall provide adequate barricades, construction signs, warning lights as required by the Engineer. Such protection shall be maintained during the progress of the construction work and until it is safe for traffic to use the roadway. All material piles, equipment and pipe which may serve as obstructions to traffic shall be enclosed by barricades and shall be protected by proper lights. The rules and regulations of the NPC shall be observed at all times.

The Contractor shall carry on the work in a manner which will cause the least interruption to traffic and may close a street only with the permission of the Engineer. The Contractor shall provide one flagman with a stop-slow paddle for each end of the one way strip for proper direction of traffic.

### b) PAVEMENT REMOVAL

All rigid or flexible pavement, sidewalk, driveways, etc., to be removed under this Contract shall be completed as specified herein. The Contractor shall cut the pavement with a saw as indicated on the designated detail drawing. Under no circumstances will the Contractor be allowed to pull up pavement without prior cutting. All cutting will be neat and straight. The width of pavement cuts shall not exceed the width indicated on the designated detail drawing. Should pavement be damaged by the Contractor outside the area specified above, the Contractor will be required to repair the pavement per the appropriate detail and as directed by the Engineer, at the Contractor's expense. This shall also apply to pavement that is damaged away from the trench area.

### c) EXCAVATING AND BACKFILLING TRENCHES FOR ALL PIPE LINES

All excavation will be of one classification regardless of the nature of the material encountered, except for solid rock formation in trenches. Rock excavation will include the excavation of all solid ledge rock which cannot be removed by ordinary excavating equipment. All boulders greater than one cubic yard in size will also be considered rock excavation.

Trenches shall be carefully excavated to the proper grade so that it will not be necessary to fill-in under the pipe. Pipe shall be placed on a firm foundation so as to prevent subsequent settlement. The Contractor shall undercut and replace weak or saturated soils below the pipe trench with stabilization stone or other approved material, as directed by the Engineer, to provide a firm foundation. Under no circumstances shall pipe be laid in water and no pipe shall be laid under unsuitable weather or trench conditions.

Backfilling along the sides of the pipe and immediately above the pipe will be done by hand with extreme care. On large pipe lines (12" and above), backhoes or other equipment may be used upon approval by the Engineer. In order to insure proper grade and alignment and to insure that backfill material is distributed under the pipe properly, each joint of pipe shall be backfilled to the center of the pipe and hand tamped as each joint is laid. From one (1) foot above the top of the pipe to the subgrade. Backfilling shall be completed at the end of each day's work. Suitable backfill shall be defined as loam, clay, sand, gravel or other materials satisfactory to the Engineer.

#### **d) SANITARY SEWER**

##### **INSTALLATION OF SANITARY SEWER PIPE**

All materials for laying and jointing the pipe in the trench will conform to the specifications for such material herein given and as specified in the approved drawing. Grade lines for aligning and grading the pipe in the trench will be established by the Contractor with the approval of the Engineer, and all labor and material required will be furnished by the Contractor. Prior to being lowered into the trench, each pipe will be inspected by the crew foreman.

Faulty pipe shall be rejected and removed from the work site. No pipe will be laid within ten (10) feet of excavation operations or within thirty (30) feet of rock which must be jack hammered for removal. The open end of all pipes will be plugged when pipe laying is not in progress, and all pipe will be protected against injury from falling objects. Pipe will be laid with the bell ends facing the direction of laying.

A bell hole will be dug for each bell, but only of sufficient size to insure that the pipe will bear evenly throughout its length on the bottom of the trench. When required, stone used for bedding shall be stabilization stone. The limits for stone bedding will normally be shown on the profile of the Engineer's drawing. Stone bedding shall have a minimum thickness beneath the pipe of four inches (4") or one-eighth of the outside diameter of the pipe, whichever is greater. The required thickness shall be determined by the Engineer. The Contractor is solely responsible for



meeting all invert, grade, and alignment requirements. In the event the Contractor fails to meet these requirements, the Contractor shall remove any manholes and/or pipe and correct the problem. No additional compensation will be allowed.

**e) SANITARY SEWER MANHOLES**

All manhole construction shall conform to detailed drawings. Manholes, rings and covers shall be built at the locations, and of the type specified, on the Engineer's drawings. Manholes shall be constructed of cast in-place reinforced concrete. Manhole shelves and channels shall be cast in-place concrete unless otherwise approved by the Engineer

Channels shall be a depth of three-quarters of the diameter of the pipe and shall conform to the inside diameter of the influent and effluent pipes. The channel shall be constructed from the invert of the influent pipe to the invert of the effluent pipe. The channel shall be smooth in order to avoid any turbulence in the manhole. Manhole shelves shall slope from the manhole wall to the channel. The shelf at the wall shall be a minimum of three inches (3") higher than the shelf at the channel. A maximum of two inches (2") shall be allowed for the protrusion of the influent and effluent pipes beyond the inside wall of the manhole.

All manhole joints shall be sealed on the outside of the manhole with butyl adhesive tape (minimum 6" wide). When unstable subgrade is encountered, manholes shall be bedded on stabilization stone.

**Measurement and Payment**

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, equipments and other incidentals necessary for the satisfactory completion of the project.

**TS- 9 CLEARING AND DEMOBILIZATION**

Before moving out, the contractor shall restore the orderly state of worksite by clearing all temporary structures. Remove all excess/waste materials and store in designated areas.

Before the Contractor will demobilize its construction equipment/ tools, materials and crew, he shall secure approval from NPC security office for the release of the contractor's equipment and to surrender the workers Identification (I.D) cards. A joint inspection with the NPC Inspector and Contractor will be conducted to make sure that all his accomplishment / work that needs remedial attention or correction shall be done prior to the issuance

of the Certificate of Completion. The Certificate of Completion will serve as basis for the processing of payments.

BID DOCUMENTS

SECTION VII- DRAWINGS

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT SEPTIC  
VAULT

PR NO/REF. NO: MG-ADM25-006/INFRA2025-ADM-018

## ***Section VII. Drawings***

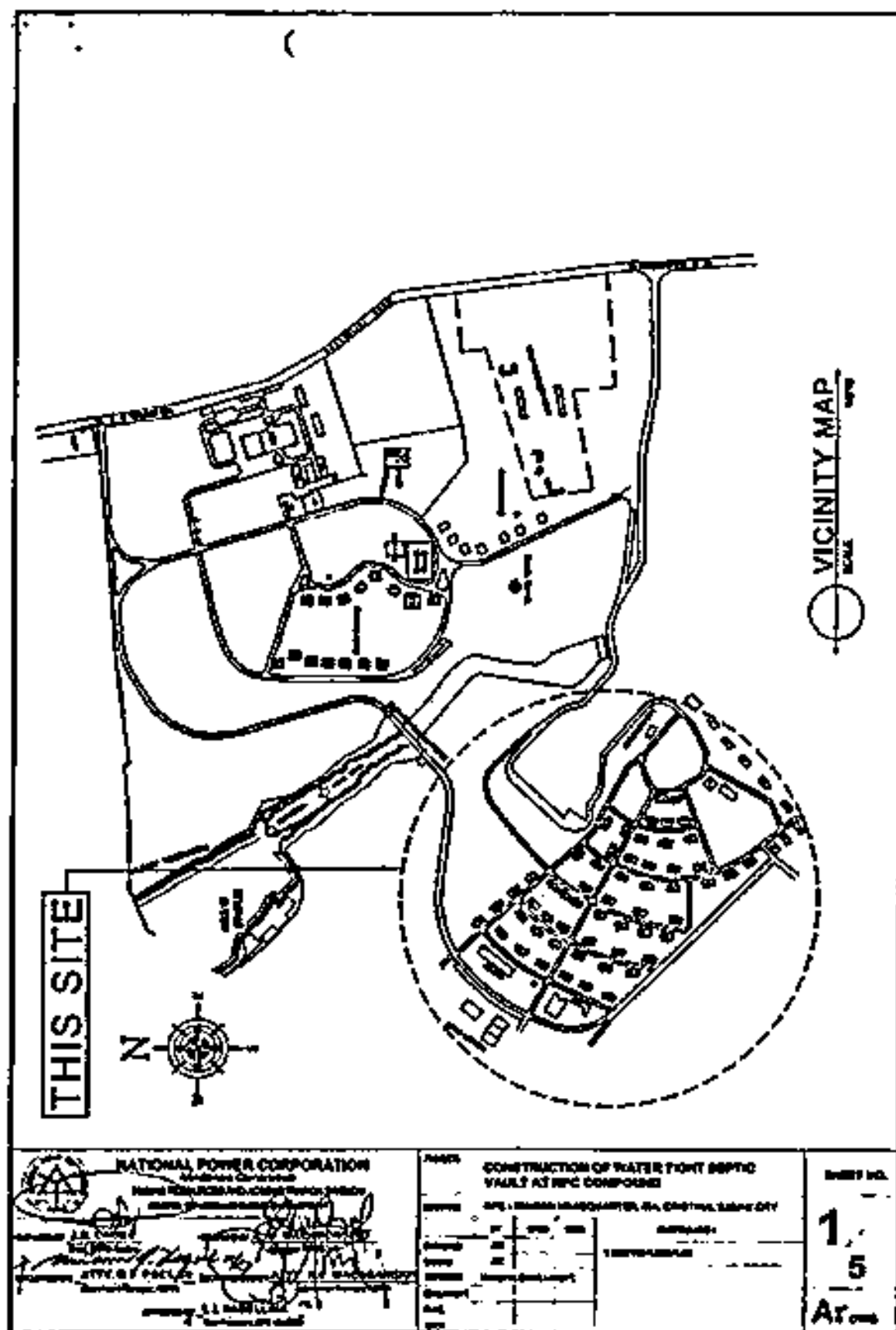
**BID DOCUMENTS**

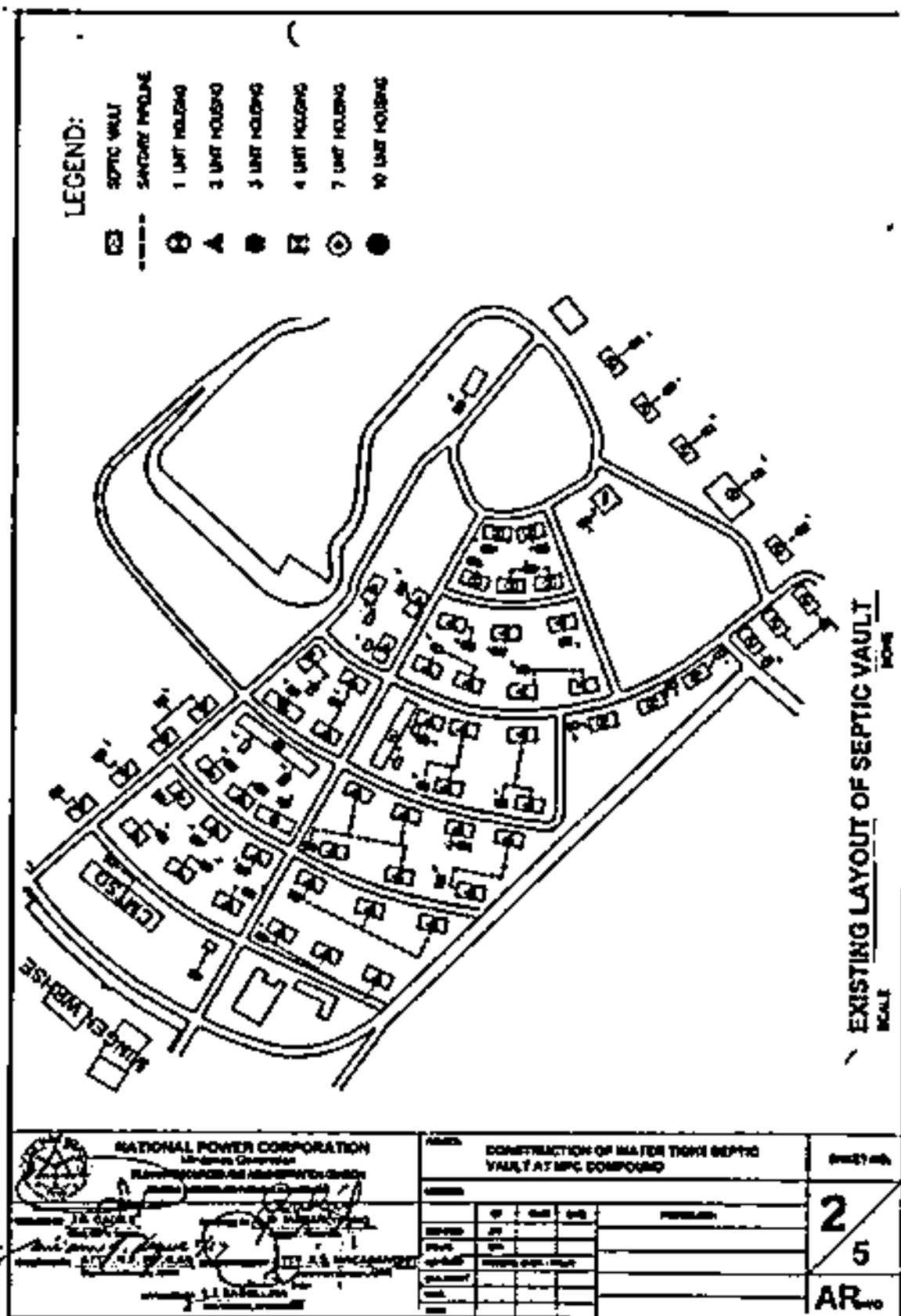
**SECTION VII- DRAWINGS**

**NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT SEPTIC VAULT**

**PR NO./REF. NO.: MG-ADM25-006/INFRA2025-ADM-018**

- Sheet No.1/5 : Vicinity Map**
- Sheet No.2/5 : Existing Layout of Septic Vault**
- Sheet No.3/5 : Proposed Layout of New Septic Vaults**
- Sheet No.4/5 : Septic Vault Detail, Plan**
- Sheet No.5/5 : Septic Vault Detail, Section**



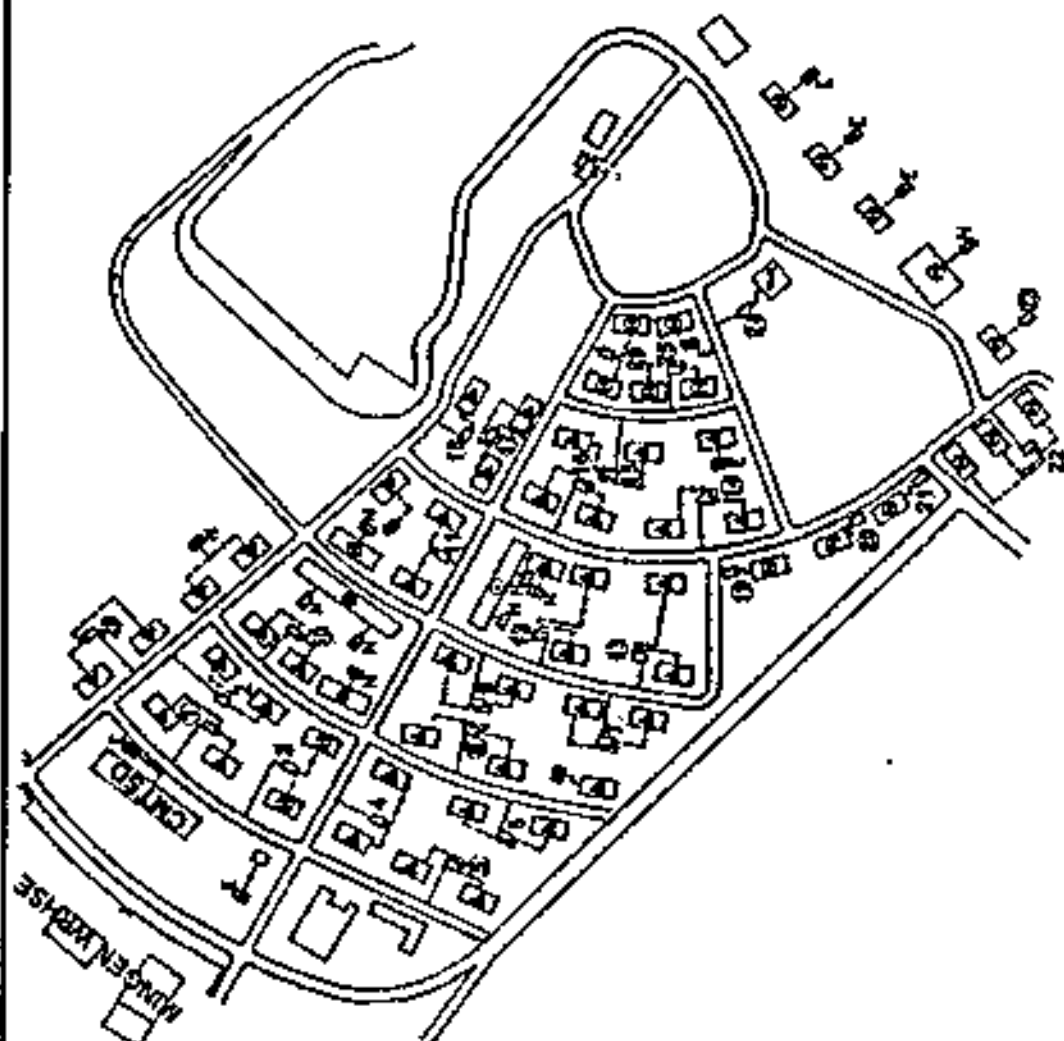


LEGEND:


- EXIST. SEPTIC VAULT
- PROP. SEPTIC VAULT
- NEW SEPTIC VAULT
- EXIST. SANITARY PIPELINE
- OUTLET SANITARY PIPELINE
- CONNO TO DRAINAGE
- 1 UNIT HOUSING
- 2 UNIT HOUSING
- 3 UNIT HOUSING
- 4 UNIT HOUSING
- 7 UNIT HOUSING
- 10 UNIT HOUSING

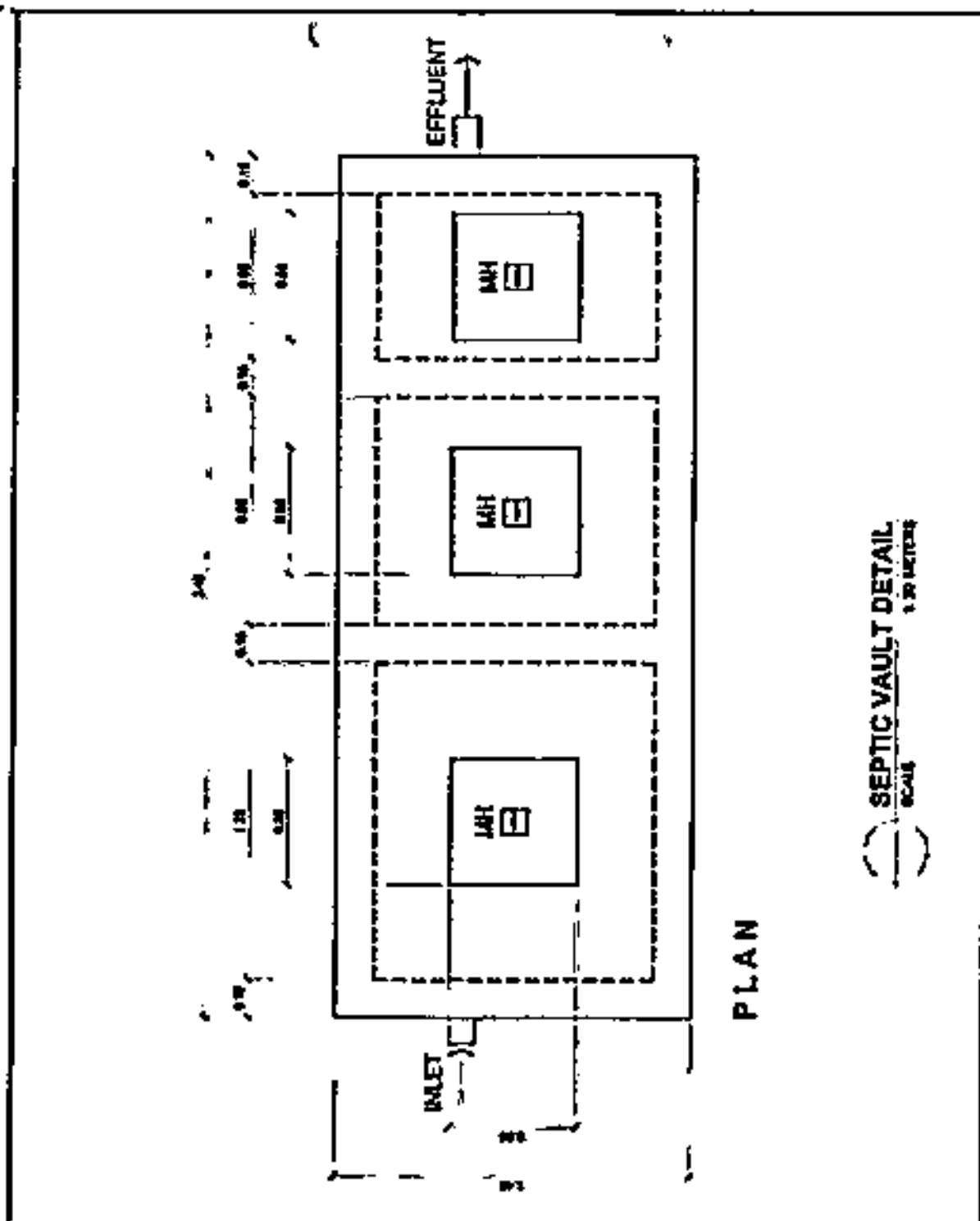
NOTES:

1. THE IMPLEMENTING OFFICE SHALL DECIDE THE EXACT LOCATION OF THE PROPOSED SEPTIC VAULT BASED ON FIELD CONDITION AND OVERALL FUNCTIONALITY IN RELATION TO SLOPE REQUIREMENTS OF SANITARY PIPE.
2. EACH UNIT IS PROVIDED WITH 75 LINEAR METERS OF 4" PVC PIPE, 8" DIA FOR BOTH INLET AND OUTLET REQUIREMENTS INCLUDING NECESSARY FITTINGS.
3. 4" PVC PIPES SHALL BE SERIES 8000 OR APPROVED EQUIVALENT.
4. SANITARY PIPE SHALL HAVE A MINIMUM SLOPE OF 1:40.



PROPOSED LAYOUT OF NEW SEPTIC VAULTS  
SCALE: 1:400

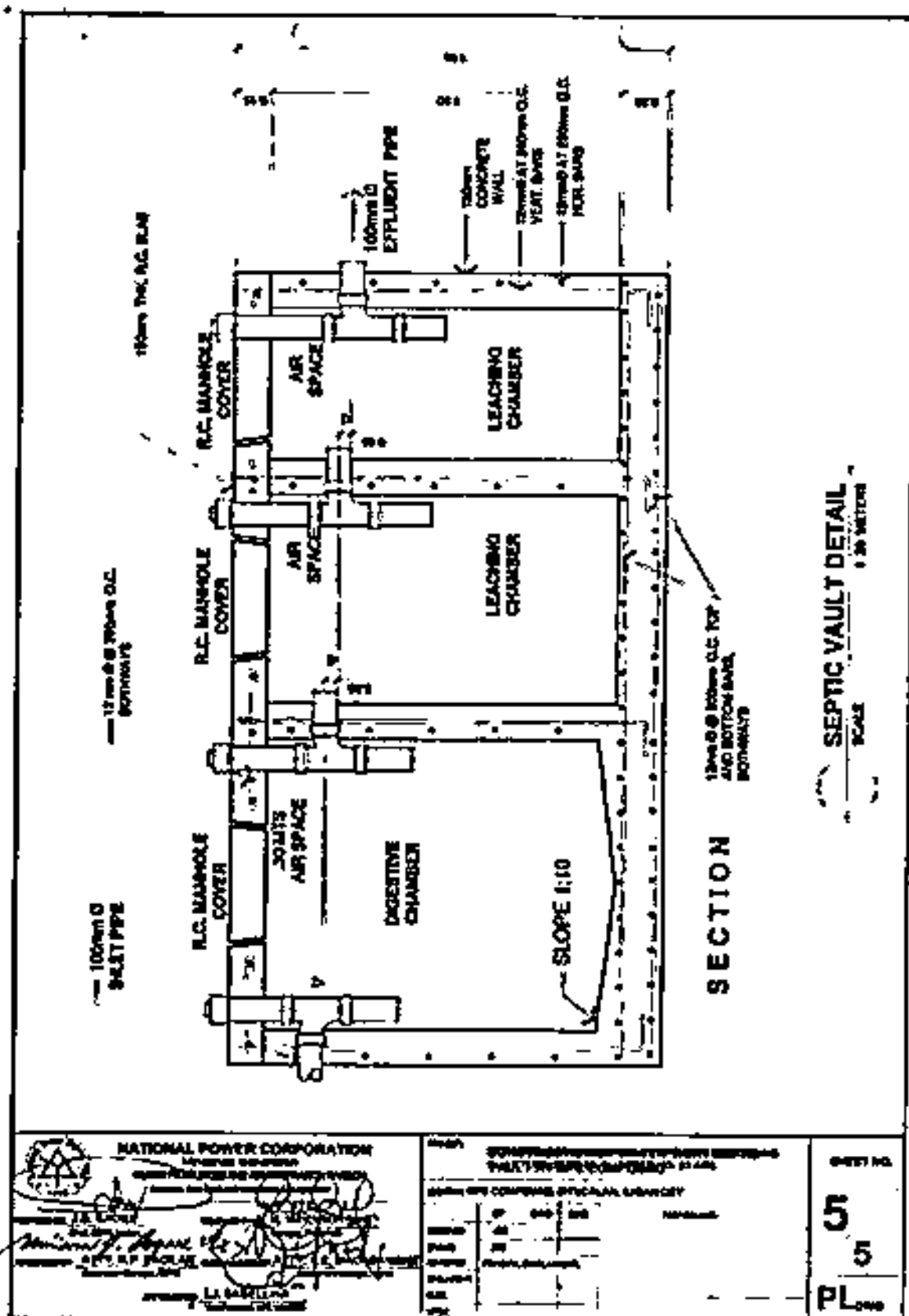
 <p><b>NATIONAL POWER CORPORATION</b> Electricity Department PLANNING, DESIGN AND CONSTRUCTION DIVISION MANILA, PHILIPPINES</p> <p>Prepared by: <i>[Signature]</i> Checked by: <i>[Signature]</i> Reviewed by: <i>[Signature]</i> Approved by: <i>[Signature]</i> Date: <i>[Date]</i></p>	<p>PROJECT: CONSTRUCTION OF WATER TIGHT SEPTIC VAULT AT MPC COMPOUND</p>		<p>SHEET NO.</p>
	<p>Drawn by: <i>[Signature]</i></p>		<p><b>3</b></p>
	<p>Checked by: <i>[Signature]</i></p>		<p><b>5</b></p>
	<p>Approved by: <i>[Signature]</i></p>		<p><b>AR</b></p>



SEPTIC VAULT DETAIL  
SCALE 1:20 METERS

<p><b>NATIONAL POWER CORPORATION</b>          Director General          Planning, Engineering and Construction Division          Manila, Philippines</p> <p><i>[Signature]</i>          Director General</p> <p><i>[Signature]</i>          Project Engineer</p> <p><i>[Signature]</i>          Project Engineer</p>	<p><b>CONSTRUCTION OF WATER TIGHT SEPTIC VAULT AT NPC COMPOUND</b></p> <p>REVISIONS AND COMMENTS, SPECIFICATIONS, ETC.</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>01/01/2025</td> <td>PL</td> <td>ISSUED FOR BIDDING</td> </tr> </tbody> </table>	NO.	DATE	BY	REVISION	1	01/01/2025	PL	ISSUED FOR BIDDING	<p>SHEET NO.</p> <p><b>4</b></p> <p><b>5</b></p> <p>PLANS</p>
NO.	DATE	BY	REVISION							
1	01/01/2025	PL	ISSUED FOR BIDDING							





## ***Section VIII- Bill Of Quantities***

SECTION VIII - BIDDING  
FORMS(Name of Project) : CONSTRUCTION OF WATER TIGHT SEPTIC  
VAULT AT NPC COMPOUND

(PR #):

## BILL OF QUANTITIES

Item No.	Description of Work or Materials	Estimated Quantity	Unit	Unit Price in Pesos (Words and Figures)	Total Amount
1	CONSTRUCTION SAFETY AND HEALTH PROGRAM	1.00	lot	(PHP _____ )	PHP _____
2	CLEARING, CUTTING OF TREES, DEMOLITION AND DISPOSAL WORKS	1.00	lot	(PHP _____ )	PHP _____
3	EXCAVATION WORKS (BOULDERS, ROCKS AND SOIL)	547.01	cu.m.	(PHP _____ )	PHP _____
4	BACKFILLING WORKS	300.44	cu.m.	(PHP _____ )	PHP _____
5	REINFORCED CONCRETE WORKS	81.54	cu.m.	(PHP _____ )	PHP _____
6	INSTALLATION OF SANITARY PIPE INCLUDING FITTINGS	2100.00	m.	(PHP _____ )	PHP _____

BID DOCUMENTS

SECTION VIII- BILL OF QUANTITIES

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT SEPTIC

VAULT

PR NO. REF. NO.: HQ-AD425-008/WFRA2025-AD44-018

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) *in accordance with Section 8.5.2 of the IRR;*

orTechnical Documents

- ☒ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-01; and*

- ☒ (c) 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 less than one year from the scheduled date of bid opening, submit Certificate of Completion;*
- *For project completed at least one year from the scheduled date of bid opening, 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

- ☒ (d) Special PCAB License in case of Joint Ventures;  
and registration for the type and cost of the contract to be bid; and

- ☒ (e) 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

- ☒ (f) 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;



- 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-06 and its supporting documents;and



- (g) Original duly signed Omnibus Sworn Statement (OSS), using any of the following NPC-MinGen Standard Forms No.:  
NPCMGNSF-INFR-07a – for Sole Proprietorship;  
or  
NPCMGNSF-INFR-07b – 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

- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) using NPC-MinGen Standard Form No. NPCMGNSF-INFR-08.

*Class "B" Documents*

- (i) 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-09;  
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"]*

- ☒ (j) Original of duly signed (each and every page) and accomplished Financial Bid Form, using NPC-MinGen Standard Form No. NPCMGNSF-INF-10; and  
Other documentary requirements under RA No. 9184
- ☒ (k) Original of duly signed (each and every page) Bid Prices in the Bill of Quantities, using given form in Section VIII; and
- ☒ (l) Duly signed (each and every page) and accomplished Detailed Estimates Form using NPC-MinGen Standard Form No. NPCMGNSF-INF-11a, including NPC-MinGen Standard Form No. NPCMGNSF-INF-11b Detailed Unit Price Analysis (DUPA) and 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-INF-12; and
- ☒ (m) Duly signed each and every page Cash Flow by Quarter or Month, as applicable



**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-06** - List of Equipment, Owned or Leased and/or under Purchase Agreement, Pledged to the Proposed Project
- NPCMGNSF-INFR-07a** - Omnibus Sworn Statement (Sole Proprietorship)
- NPCMGNSF-INFR-07b** - Omnibus Sworn Statement (Partnership/ Cooperative/Corporation//Joint Venture)
- NPCMGNSF-INFR-08** - Computation of Net Financial Contracting Capacity (NFCC)
- NPCMGNSF-INFR-09** - Joint Venture Agreement
- NPCMGNSF-INFR-10** - Bid Form
- NPCMGNSF-INFR-11a** - Detailed Cost Estimate Form
- NPCMGNSF-INFR-11b** - Detailed Unit Price Analysis (DUPA)
- NPCMGNSF-INFR-12** - Summary Sheets of Materials Prices, Labor Rates and Equipment Rental Rates

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT

PA NO, REF, NO: ISO-ADM23-JOIANE-FA-2023-JOIN-018

Standard Form Number: NPSMGSF-INF-01

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

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

[illegible]

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. No 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).

1. **Agpetawng**

Date		---
Designation		---

## BID DOCUMENTS

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT

SEPTIC VAULT

## SECTION IX - CHECKLIST OF TECHNICAL &amp;

PR NO. REF. NO.: HQ-AD2625-008/NPRA/2025-ADM-018

## FINANCIAL DOCUMENTS

Standard Form Number: NPCM/GNSF-INPR-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 with an amount equivalent to at least fifty percent (50%) of the ABC. This Statement shall be supported with:

1. Contract and/or 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 the contracts with the private sector, an equivalent document (Ea, Official Receipt) shall be accepted.

Submitted by : \_\_\_\_\_  
 [Printed Name & Signature]

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

B7212004

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 Obligor, 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.

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 \_\_\_\_\_

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

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

SEAL \_\_\_\_\_

SURETY \_\_\_\_\_

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

NAME(S) \_\_\_\_\_

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 only during post-qualification.*

Standard Form Number : NPCMGNISF-INFRA-05

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 (No. of Years)					
6. Previous Employment					
7. Education					
8. PRC License/NE I/COSH/Other required certificate					

Required documents to be presented during Post-qualification:

1. Certificate of Employment and valid PRC License of the (professional) personnel
2. Certificate of Employment and Certificate of Training with accreditation from DOLE of the Construction Safety and Health Officer
3. Diploma and/or Service Record/Certificate of Employment of previous employer of Foreman, Welder, Plumber or Electrician, whichever is applicable
4. TESDA Certificate (NC II) of Welder, Plumber or Electrician, whichever is applicable. Valid PRC License for Registered Master and Registered Master Electrician.

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

(Printed Name &amp; Signature)

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

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



# BID DOCUMENTS

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT

SECTION IX - CHECKLIST OF TECHNICAL &  
FINANCIAL DOCUMENTS

PR NO./REF. NO.: MG-ADM25-008UNE RA2022-ADM-018

Standard Form Number: NDCMGNSE-INFR-06

## 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
<b>A. Owned</b>							
i.							
ii.							
iii.							
iv.							
<b>B. Leased</b>							
i.							
ii.							
iii.							
iv.							
<b>C. Under Purchased Agreements</b>							
i.							
ii.							
iii.							
iv.							

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

(Printed name & Signature)

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

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

One of the requirements from the bidder to be included in the Technical Envelope is the list of its equipment units pledged for the contract to be bid. Based on minimum equipment required in the bidding documents, which are owned (supported by proof/s of ownership), leased, and/or under purchase agreements (with accompanying 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-07a

**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:
- 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 hereto 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-07b

**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;

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

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

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

*[Insert signatory's legal capacity]*

Affiant

***[Jurat]***

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

Standard Form No: NPCMGNSF-INFR-08

**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-09

**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.

**BID DOCUMENTS**

**SECTION IX- CHECKLIST OF TECHNICAL &  
FINANCIAL DOCUMENTS**

**NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT**

**PR NO/REF. NO.: MG-ADM25-008/INFRA2026-ADM-018**

\_\_\_\_\_  
**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-09

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 \_\_\_\_\_

PTR No. \_\_\_\_\_

Issued at: \_\_\_\_\_

Issued on: \_\_\_\_\_

TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_

Page \_\_\_\_\_

Book \_\_\_\_\_

Series \_\_\_\_\_

*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-10

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

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BID FOR 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 guidelines<sup>1</sup> for this purpose;

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<sup>1</sup> currently based on GPPB Resolution No. 09-2020

- 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
- 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: \_\_\_\_\_

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT

## PR NO, REF. NO.: HQ-AOM-25-008A-SFR-A-2023-ACM-4-018

Standard Form Number : NPCMCHS.F.184F - 120

**DETAILED COST ESTIMATE FORM**

Name of Bidder:

[illegible]

**Note: Bidders shall submit this form with Detailed Unit Price Analysis (DUPA) using APCOUN5F-INFR-ITB**

Name, Signature of Authorized Representative

## **Designation**

Standard Form Number : RFPMGAS-FINRA-176

**DETAILED UNIT PRICE ANALYSIS**

PAY ITEM	PAY ITEM DESCRIPTION	QTY	UNIT			
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL COST	REMARKS
I	MATERIALS					
1						
2						
3						
4						
5						
				TOTAL MATERIAL COST		
II	LABOR					
1						
2						
3						
4						
				TOTAL LABOR COST		
III	EQUIPMENT RENTAL					
1						
2						
3						
				TOTAL EQUIPMENT COST		
				TOTAL ESTIMATED DIRECT COST, EDC		
				OVERHEAD, CONTINGENCY & MISCELLANEOUS	%	
				VALUE ADDED TAX	12%	
				PROFIT	%	
				TOTAL INDIRECT COST, IDC		
				TOTAL COST OF PAY ITEM		
				UNIT COST OF PAY ITEM		

10/21/2024

*Standard Form No: NPCMGNSF-INFR-12***SUMMARY SHEETS OF MATERIALS PRICES, LABOR RATES AND  
EQUIPMENT RENTAL RATES**

Name of Bidder: \_\_\_\_\_

**I. Unit Prices of Materials**

Materials Description	Unit	Unit Price
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**II. Manpower Hourly Rates**

Designation	Rate/Hr.
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**III. Equipment Hourly Rental Rates**

Equipment Description	Rental Rate/Hr.
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\_\_\_\_\_  
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/manufacture/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].

BID DOCUMENTS

NAME OF PROJECT: CONSTRUCTION OF WATER TIGHT  
SEPTIC VAULT

SECTION IX- CHECKLIST OF TECHNICAL &  
FINANCIAL DOCUMENTS

PR NO./REF. NO.; MG-ADM25-008/MNFRA2025-ADM-018

*[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]*

