



NATIONAL POWER CORPORATION

MinGen

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

FOR

**REHABILITATION OF DISTRIBUTION
WATERLINES OF DUPLEX QUARTERS**

P.R. No.: MG-ADM25-003

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.

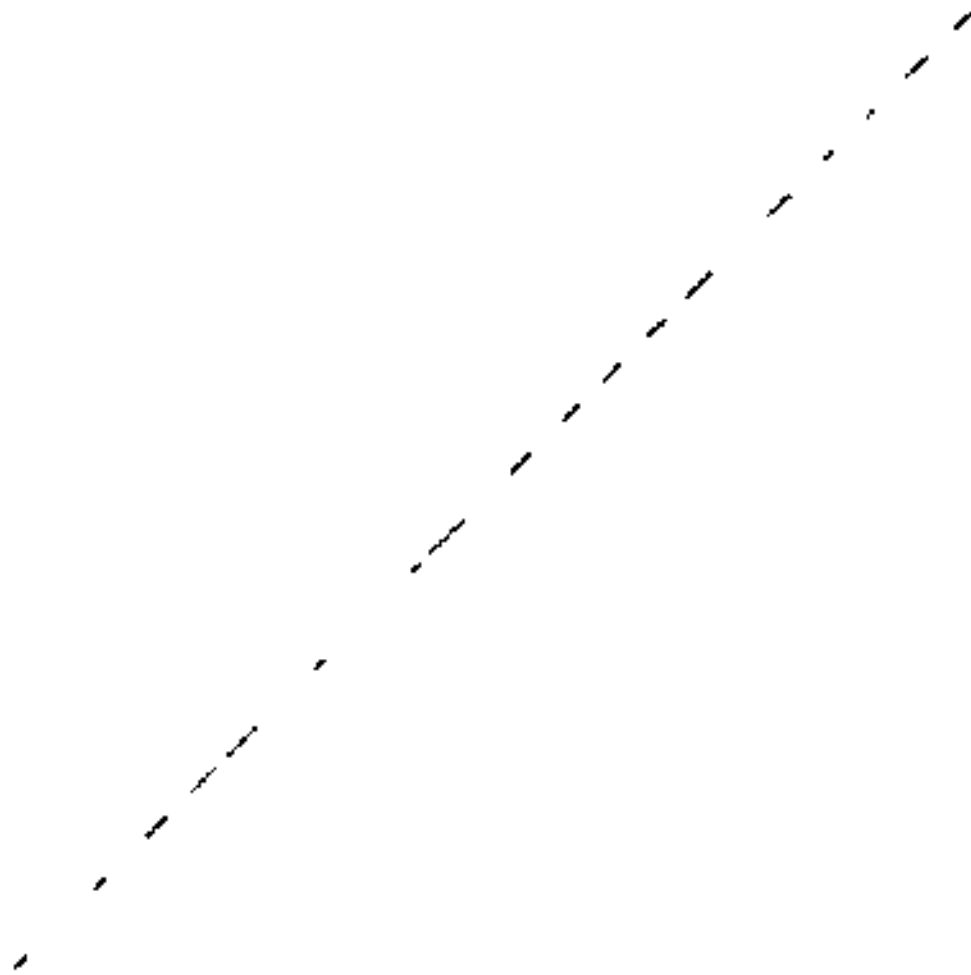
Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring 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.



BID DOCUMENTS

SECTION I- INVITATION TO BID

NAME OF PROJECT: REHABILITATION OF DISTRIBUTION WATERLINES
OF DUPLEX QUARTERS
PR NO/REF. NO.: MG-ADM25-003/INFRA2025-ADM-016

Section I. Invitation to Bid



NATIONAL POWER CORPORATION

MinGen**Invitation to Bid for Rehabilitation of Waterlines of Duplex Quarters**

The **NATIONAL POWER CORPORATION-MINDANAO GENERATION**, through the approved Corporate Budget of NPC for CY 2025 intends to apply the sum of **One Million Five Hundred Thousand Pesos (PHP1,500,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Rehabilitation of Distribution Waterlines of Duplex Quarters (PR No. MG-ADM25-003 / Ref. No. INFRA2025-ADM-015)**. 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 **Ninety (90 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

SECTION 1- INVITATION TO BID

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. (063)-223-4604 or email 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.


SECTION I- INVITATION TO BID



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
Fax No.: (063)223-4604
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. T. 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 *Rehabilitation of Distribution Waterlines of Duplex Quarters at Ditucalan, Iligan City, with Project Identification Number PR No. MG-ADM25-003 /Ref. No. INFRA2025-ADM-015.*

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 *One Million Five Hundred Thousand Pesos (PHP1,500,000.00)*

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.

SECTION II- INSTRUCTION TO BIDDERS

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			
6.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Installation / Rehabilitation of Potable Water Supply Pipe Network		
7.1	Subcontracting is not allowed.		
10.3	None		
10.4	The key personnel must meet the required minimum years of experience set below:		
	<u>Key Personnel</u>	<u>General Expertise</u>	<u>Relevant Experience</u>
	1 - Project Engineer	Licensed Civil Engineer	At least five (5) years' experience in related works
	1 - Construction Foreman	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
	1 - Construction Safety and Health Officer (SO2)	Construction Safety Officer 2	At least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project). At least three

SECTION IB- BID DATA SHEET

	<div>4 – PlumbersNC II</div> <div>1- WelderNC II</div> <div>(3) years experience as Safety Officer. At least three (3) years' experience in plumbing Works At least three (3) years' experience in welding Works</div> <div><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></div> <div>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.</div> <div>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.</div>									
10.5	<div>The minimum equipment requirements are the following:</div> <table><tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr><tr><td>PPR fusion machine</td><td>½" – 1"Ø</td><td>Four (4)</td></tr><tr><td>Welding Machine</td><td>300 Amp.</td><td>One (1)</td></tr></table>	Equipment	Capacity	Number of Units	PPR fusion machine	½" – 1"Ø	Four (4)	Welding Machine	300 Amp.	One (1)
Equipment	Capacity	Number of Units								
PPR fusion machine	½" – 1"Ø	Four (4)								
Welding Machine	300 Amp.	One (1)								
12	N/A									
15.1	<div>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</div> <div>a. The amount of not less than Thirty Thousand Pesos (PHP30,000.00), 2% of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</div> <div>b. The amount of not less than Seventy Five Thousand Pesos (PHP75,000.00), 5% of ABC, if bid security is in Surety Bond.</div>									
19.2	Partial bids are not allowed.									
20	<div>Additional documents to be submitted during Post- Qualification:</div> <div>1. Other appropriate licenses and permits required by law and stated in the Bidding documents.</div> <div>a. <i>Original Bank Statement year ending prior to bid opening;</i></div> <div>b. <i>Valid and updated PhilGEPS Registration (Platinum Membership) (all pages);</i></div>									

	<p>c. 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;</p> <p>d. 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;</p> <p>e. 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);</p> <p>f. 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;</p> <p>g. Philippine Contractors Accreditation Board (PCAB) License;</p> <p>h. Board of Accountancy (BOA) Certificate;</p> <p>2. Contract and/or Notice of Award as supporting documents for NPC MinGen Form No. NPCMGNSF-INFR-01, if applicable;</p> <p>3. (a) Valid Professional Regulation Commission (PRC) license for professional personnel; (b) Certificate of Training with accreditation from DOLE for the Construction Safety & 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.</p> <p>4. 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</p> <p>5. Certificate of Site Inspection issued by Department Manager or his authorized representative.</p> <p>6. Unamended product brochure/literature of the following materials:</p> <p>•</p>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, prior to contract signing, such as:</p> <p>a) Approved construction schedule and S-curve</p> <p>b) Approved manpower schedule</p>

	<ul style="list-style-type: none"> c) Construction methods d) Approved equipment utilization schedule e) Construction safety and health program approved by the DOLE f) Approved Project Evaluation Review Technique/Critical Path Method (PERT/CPM)
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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 issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

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

2. Sectional Completion of Works

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

3. Possession of Site

- 4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- 4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. 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

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

Section VI. Specifications

PROJECT HIGHLIGHTS

PH-1.0 GENERAL

NPC-MinGen have two (2) housing quarters intended for employees in which residence are located outside the 50km radius from the office. Ma. Cristina Housing Compound or commonly called Mindanao Regional Staff Quarter (MRSQ) with 21 single quarters and 1 duplex type quarter is located in Brgy. Ma. Cristina, Iligan City. Ditucalan Housing Compound is composed of 19 single-detached, 41 duplex type and 3 quadruplex type quarters is located in Brgy. Ditucalan, Iligan City.

This project aims to separate the source of water supply for Duplex Housing Quarters and completely implement the Policies and Guidelines of Housing, Training Center and Guesthouse Facilities that each housing quarter will pay the excess consumed volume of water out of the allocated volume for each employee.

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. DISMANTLE, REMOVAL OF EXISTING PIPELINES (FROM WATER METER TO T&B/KITCHEN SINK) AND TURN-OVER TO GSFM**
- E. INSTALLATION OF G/PPR PIPELINE FROM WATER METER TO TOILET & BATH AND KITCHEN SINK INCLUDING FITTINGS**
- F. CHLORINATION SYSTEM AND PIPELINE SHED**
- G. 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 Ninety (90) 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 Engineering with inter-agency registration of at least Small B – Water Supply

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 Contractor 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 657:2020 – 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

15.3. PNS 156:2010 – Sanitary Wares**12. Lighting Fixtures**

- PNS IEC 1328:1992 – 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 158:2010 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 DISMANTLE, REMOVAL OF EXISTING PIPELINES (FROM WATER METER TO T&B/KITCHEN SINK AND TURN OVER TO GSFM

General

The work to be done under this section shall consist of furnishing of all labor, materials and other facilities to complete all works shown on the drawings and specified herein.

Execution

Before the execution of the work the contractor shall coordinate with the occupant to let them know that there will be a water supply interruption on their quarter, to give them time to prepare and store water enough for their consumption during the interruption. Remove all existing GI pipe including existing water meter from the tapping point to the toilet & bath and kitchen sink. All embedded pipes at the T&B shall be cut and left behind.

All GI pipe dismantled and removed shall be turnover to GSFM office for proper accounting. Separate the GI pipes and fittings for easy classification.

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

TS-06 INSTALLATION OF GUPPR PIPELINE FROM WATER METER TO TOILET & BATH AND KITCHEN SINK INCLUDING FITTINGS

This section covers the technical and associated requirements of the materials, fabrication, installation, examination, inspection, and testing requirements of

the new water supply pipes, valves and valve boxes, fire hydrants/standpipe hose connections and other associated accessories as described herein and shown on the attached drawings.

The piping system shall be furnished to provide a complete and acceptable installation and to achieve a safe and efficient operation of each system and equipment. All required piping shall be furnished complete with flanges, joints, gaskets, vents, concrete thrust blocks, hangers and guides if required, and all auxiliary steel and anchors required to complete the pipe supports.

The main piping shall be generally embedded underground and constructed from Unplasticized Polyvinyl Chloride (uPVC). Galvanized steel pipe which are generally installed aboveground shall conform to ASTM A53 Grade B.

It also includes all required excavations and backfill of pipe trenches including sand bedding as shown on the drawings or as directed by NPC. Pipe trenches shall be constructed in accordance with the requirements of relevant Civil Works specifications.

The Contractor shall submit, if required, for NPC's review and approval detailed drawings covering the arrangement, actual layout, route and interface connections. Any required modification from the approved drawings or specification to suit actual site conditions, shall be permitted only with prior approval of NPC.

The Contractor shall properly assess the site in close coordination with the plant personnel to determine if any existing structures are deemed required to be dismantled during the execution of the work, such as concrete pavement, embedded equipment/materials and other structures. If this is necessary, the Contractor shall include in his scope of work the replacement of the affected facilities.

Materials

PVC Pipe

Pipes to be used in the potable water supply and hydrant system's main and distribution lines shall be constructed from Unplasticized Polyvinyl Chloride (uPVC) pipe, class 150, conforming to ASTM D-1784 or approved equivalent.

Unplasticized PVC pipe connection joints 80 mm (3") Ø and above shall be joined by rubber ring type connection. Smaller sizes shall be of solvent cement type connection. Cast iron pipe joints may be used instead of PVC using applicable adaptor. Special adaptor shall also be used for interconnection of PVC pipe with flanged type cast iron valves or flanged steel pipe.

Flanged connections may be used for connecting to flanged surfaces and shall be of the same material with the connected pipe with a rating of class 150.

Flanged joints may use flat gaskets with serrated flange faces or O-rings with corresponding grooves. Gaskets and O-rings shall not be fabricated from plasticized PVC.

Union joints shall not be used with pipe diameters of more than 75 mm O.D. (3"). Joints between metal pipes and PVC pipes should be flanged type using a PVC flange on the PVC pipe and full face gasket.

Gaskets shall be of sheet rubber composition. Flanged bolts shall be hexagonal head machine bolts conforming to ASTM A 307 Gr. B with dimensions in accordance with ANSI B18.2.1 and complete with heavy semi-finished head nuts conforming to ASTM A 194, Gr. 2H and ANSI B18.2.2.

Steel Pipe

The steel pipe to be used on water supply lines installed aboveground such as air vents, hydrant or standpipe hose connections shall conform to ASTM A53 Gr. B, Schedule 40, welded or seamless, hot dipped galvanized with dimensions conforming to ANSI B36.10M @ 6000mm length/pc. Other equivalent standards may be used subject to NPC's approval.

ASTM A53 pipes 63 mm and under shall be screwed fittings, conforming to ANSI B16.11 or socket welded to ASTM A105. However, flanged fittings shall be used for connection with flanged type valves or uPVC/non-ferrous pipes. For ASTM A53 pipes 65 mm and above shall preferably be butt-welded or flanged. However, screwed fittings are acceptable up to 80 mm diameter provided that pipe threads are fabricated from the pipe manufacturer.

ASTM A53 pipe fittings shall be seamless, butt weld, minimum of schedule 40, hot-dip galvanized and conforming to ASTM A 234 Gr. WPB. Flanges shall be forged, slip-on or weld neck, hot-dip galvanized, 150 lb raised face and conforming to ASTM A181 Class 60. Screwed fitting shall be galvanized malleable iron, and in accordance with ANSI B16.3 (Malleable iron threaded fittings, Class 150).

Gaskets shall be of sheet rubber composition. Flanged bolts shall be hexagonal head machine bolts conforming to ASTM A 307 Gr. B with dimensions in accordance with ANSI B18.2.1 and complete with heavy semi-finished head nuts conforming to ASTM A 194, Gr. 2H and ANSI B18.2.2.

Generally, all gaskets, bolts, nuts and washers to be used in the various piping systems shall be new and free from defects and imperfections. Materials to be

used shall be suitable for the liquid to be handled. Gasket materials shall not contain asbestos in any form.

Threads shall be metric. Where required, they shall be adequately treated against corrosion before dispatch from the works. All threads shall be greased carefully during installation except where otherwise specified. Split pins or other approved locking devices generally shall be provided for nuts which may become loose due to vibration, etc.

Valves

All gate and globe valves, 63mm and over shall be of OS & Y with rising stem, solid wedge type disc for gate valves and plug type disc for globe valves, bolted, bonnet, bolted gland and have flanged ends with the following materials of components:

- | | | |
|---------------------|---|------------------------|
| 1. Body & bonnet | - | Bronze or brass |
| 2. Stem | - | Bronze or brass |
| 3. Seat ring & seat | - | Bronze or bronze faced |
| 4. Wedge or disc | - | Bronze or bronze faced |

Gate valves, 50mm and smaller shall be made of bronze, rising stem, union bonnet, inside screw, solid wedge or plug type disc, and flanged or screwed ends.

Valves installed in valve boxes shall have flanged ends for easy replacement or if valves with screwed ends are used, appropriate unions shall be installed.

Valves of all sizes shall have a rating of not less than 68 kg (150 lbs), except otherwise approved by NPC.

Valves Boxes

Isolation valves laid underground shall be provided with respective valve boxes as shown on the drawings complete with specially fabricated extended stem made of galvanized rod or pipe for opening and closing the embedded valve. The extended rod or pipe shall be provided with steel square lock to fit square operating nut of the valve and a handle at one end.

All valve boxes shall be provided with steel plate covers on steel supports. Cover shall preferably be hinged type and shall be painted with one (1) coat (80 microns) of zinc rich epoxy polyamide primer and two (2) coats (80 microns each coat) of chlorinated rubber.

Installation

General

Prior to installation, the Contractor shall submit for NPC's review and approval manufacturer's brochures and catalogues for pipes, valves, and other materials to be supplied under this contract. A detailed schedule relative to interconnection works with existing facilities and which require the main water supply to be interrupted shall be submitted to NPC for review and approval.

The contractor shall also submit schedule and program showing all the details for review and approval of NPC prior to the erection/installations which are in accordance with the manufacturer's procedures.

The piping layout and isometric drawings shown on the bid and reference drawings attached in this specification shall be used as guide by the Contractor in the installation/erection including supply of piping components for the project, unless otherwise specified in this specification or as directed by NPC. The Contractor shall be responsible for the proper performance of the works, though not specifically indicated on the attached drawings but deemed necessary for the completeness of the piping system.

Any required modification from the attached drawings or specification to suit actual site conditions, shall be permitted only with prior consent or approval of NPC.

The Contractor shall closely coordinate with NPC and/or representatives relative to interconnection works with existing piping system during the project implementation so that interference between any existing installation and other structures will be avoided. NPC shall be informed at least five (5) days prior to the scheduled interconnection works so NPC can make necessary preparations for any water supply interruptions.

All openings left on existing main lines caused by removal of valves and/or pipes as required for interconnection works shall be plugged with blind flange or end caps.

The Contractor shall install the piping system in a thorough manner and with good workmanship in accordance with the manufacturer's recommended practice and this specification or as directed by NPC. No installation work shall commence unless trench excavation has been approved by NPC.

All pipes, fittings, valves and appurtenances shall be free from dirt or other foreign matters before laying. In the installation of the pipes, care shall be taken to prevent the pipes from becoming clogged during the progress of the work. Should any pipe become either, partially or wholly clogged before final completion of the work, it shall be cleaned out by the Contractor in a manner satisfactory to NPC or shall be replaced by and at the expense of the

Contractor. Open ends shall be temporarily plugged, otherwise suitably and permanently closed as required.

All existing facilities affected and damaged during the installation/erection works shall be replaced and/or restored to its original appearance by the Contractor at his own expense.

The Contractor shall strictly observe the standard safety requirements and regulations of NPC within the housing compounds during the performance of the work.

Pipe and Fittings

The new main pipe shall generally be laid underground adjacent to the existing pipe. Special care shall be taken in carrying out the excavation works to avoid damage of any existing installation pipe and structures.

Pipe assembly and installation shall be in accordance with manufacturer's recommended practice.

For underground pipe, the trench shall be provided with a cushion pad of at least 150 mm sand and sandy soil bedding materials or as shown on the drawing.

Flanged joints or approved equivalent shall be used for connecting steel pipe with uPVC pipes. Flanges shall be suitable for mating with full face, flat surface flanges. A flange spacer of corresponding thickness is required when connecting to a raised face flange, if required, in order to fill the void space beyond the raised face. Screwed connections shall be used for smaller pipes and fittings, if required.

In regular intervals and where disassembly and reassembly may be required, flanged joints, sleeve couplings or union joints shall be provided. Union joints shall not be used with pipe diameters of more than 50 mm (2") Ø, unless otherwise approved.

All welding works for steel pipe and associated steel structure shall be performed by welders and procedures qualified in accordance with the requirements of applicable codes and standards. The Contractor shall furnish all welding rods required for field welds, temporary bracing, shims, erection bolts and other miscellaneous materials required during erection.

Piping installation shall be sloped to prevent trapping of air bubbles. Venting system with valve shall be provided as shown on the drawing.

All underground pipe joints such as bends or elbows, tees, base of riser pipes shall be provided with concrete thrust blocks to resist significant forces or lateral

movement. The concrete thrust blocks shall have compressive stress not less than 211 kg/cm².

All pipeline excavation shall be backfilled up to the level of the finished grade surface in layers of 150 mm and thoroughly compacted. Backfill materials shall be compactable soil taken from trench excavation and approved by NPC. Trench excavation and backfilling works shall be done in accordance with the pertinent provisions of the Civil Works Technical Specifications.

All pipes that cross roadways shall be installed at a minimum depth as recommended by the pipe manufacturer. Otherwise, the pipe shall be provided either with pipe sleeve of steel material or reinforced concrete pipe to protect the pipe from various loads imposed by vehicles and shall extend 600mm beyond shoulder of each pavement side.

Pipes to be placed underground shall not be covered prior to the approval of NPC.

PVC pipe installed aboveground, if required, shall be properly supported to avoid pipe sagging. Pipe covering made of steel or metal shall be provided in case there is high risk of damaging the pipe during normal operation and maintenance.

The Contractor shall properly account for the thermal expansion coefficient of uPVC pipe and the expansion shall be calculated to avoid excess stresses and sagging on the piping system. The piping layout should have sufficient flexibility or other means of mitigating excessive bending and axial stresses and fatigue effects induced by repetitive expansion-contraction.

Pipe clamps, saddles, hangers and other pipe support types shall not grip the pipe tightly but permit axial movement. Spacing shall be in accordance with manufacturer's recommendations. Valves shall be supported directly.

The Contractor shall install the piping system in a thorough manner and with good workmanship, in accordance with the construction drawings and specifications or as directed by NPC. All pipes, fittings, valves and appurtenances shall be free from dirt or other foreign matters before laying. In the installation of the pipes, care shall be taken to prevent the pipes from becoming clogged during the progress of the work; should any pipe become either partially or wholly clogged before final acceptance of the work, it shall be cleaned out by the Contractor in a manner satisfactory to NPC or shall be replaced by and at the expense of the Contractor. Open ends shall be temporarily plugged, otherwise, suitably closed as required.

After considering site conditions, and in case execution cannot be done according to the piping route in the bid/design drawings, on-site changes may be acceptable subject to NPC's approval.

Exact location of interconnection point with the existing piping system shall be coordinated with NPC. Prior to interconnection, the Contractor shall drain the liquid at designated area as directed by NPC.

All existing piping at Interconnection points are made of galvanized steel. The Contractor shall provide all the necessary fittings/adaptors for Interconnection of the new uPVC pipes with the existing steel pipes.

Transportation, storage and erection shall be in strict accordance with manufacturer's recommendations. Erection shall be such as to prevent stress in the piping.

All existing facilities affected and damaged during the installation of piping shall be replaced and/or restored to its original appearance by the Contractor at his own expense.

After installation, pipe insides shall be washed thoroughly using its system and provide temporary bypass or isolation to associated piping and equipment which are prefabricated and pre-cleaned at the manufacturer shop.

Valves and Accessories

All valves and accessories to be supplied by the Contractor shall conform with the requirements specified in this specification.

The Contractor shall select valves, valve drives and accessories which are suitable for the operating conditions of the systems in which they are to be used, and shall be responsible for the pressure and temperature ratings of the selected components or as specified in relevant sections of this specifications. The selected components shall meet the requirements of trouble free and safe operation under maximum load, part load and transient conditions.

Valves, valve drives and accessories which are of similar make, size and type shall be interchangeable with one another. The Contractor shall standardize the types and the sizes of the valves as far as possible, in order to facilitate maintenance and limit the stock of spare parts. The manufacturer of valves shall be well known.

All regularly operated isolation valves and control valves shall be accessible from a permanent floor or access platform, as applicable.

All valve bodies shall be of the same nominal size as the adjacent piping, unless otherwise specified. The internal diameter of valve ends adjacent to the pipe work shall be the same as the internal diameter of the connecting pipe.

All valves shall be located and designed so that the maintenance and change of valve internals is possible without removing the valve casing from the pipe.

All existing isolation valves or pipes to be interconnected with the new main pipes shall generally be excavated, disassembled, re-installed and interconnected with the new main line. Where existing isolation valve installation permits direct interconnection with the new main line, dismantling is no longer necessary and interconnection shall be made directly at the upstream side (following flow direction) of the valve ends. Otherwise, the existing isolation valves shall be relocated to suit actual installation of the new pipe.

All openings left on existing main lines caused by removal of valves and interconnection works shall be plugged with blind flange or pipe cap (welded).

Combination air-release and vacuum valves shall be installed in at high points where possible air pockets will be accumulated during filling, under pressure and draining and as shown on the drawings or as directed by NPC. The air-release and vacuum valves shall be installed in vertical position and extended aboveground.

Valves Boxes

Each isolation valve laid underground shall be provided with respective valve box as shown on the drawings. A uPVC pipe or RCCP of appropriate size and length to fully enclose the embedded valve shall be used as standpipe.

A specially fabricated extended stem made of galvanized rod or pipe shall be provided to be used for closing and opening the embedded valve. At least six (6) units of this extended stem shall be supplied of which 2 units shall be used/assigned at Ditucalan area and 3 units at MRO-MRSQ area.

All valve boxes shall be provided with steel plate covers on galvanized steel supports and properly hinged.

Testing and Disinfecting

General

The Contractor shall furnish all equipment, labor and materials, including taps, valves, pressure gauge and bulkheads as required exclusive of water for testing and proper disinfection of the piping system. The water used for hydrostatic testing shall be sourced from the existing NPC water supply system, but the Contractor shall provide the facilities necessary to convey the water from the designated source to the points of use.

Before any test is made, the Contractor shall notify NPC in advance so that all testing and chlorinating operations shall be witnessed by NPC. All expenses that may be incurred during the tests shall be borne by the Contractor.

All testing and chlorinating operating operations shall be done in the presence of NPC.

Prior to testing and disinfecting, the Contractor shall submit the required copies of the test and disinfection procedures for review and/or approval by NPC;

Pipeline Hydrostatic Test

The piping system shall be hydrostatically tested at a pressure of 1.5 times the operating pressure of the system.

Before starting the test, all piping shall be flushed out and cleaned thoroughly with water. When filling the line with water, all air shall be removed.

The Contractor shall test the pipeline in sections prior to permanent resurfacing after the trench is backfilled, with joints exposed for examination except in heavily traveled roadways. Maximum length of test sections shall be 500 meters from distribution mains and 1,000 meters from transmission mains unless otherwise approved by NPC. Where test sections are approved which exceed the above maximum lengths the allowable leakage for the lengths in excess of the maximum allowable shall be reduced by fifty percent (50%). The pipeline shall not be filled with water until the following curing periods have elapsed:

Description	Minimum Allowable Time
Concrete Thrust Block	
a. Standard Cement	7 days
b. High early strength cement	36 hours

The pipeline shall be prepared for testing by closing the valves when available, and filling the line slowly with water. During the filling of the pipe and before the application of the specified test pressure, all air shall be expelled from the pipeline. To accomplish this, taps shall be made if necessary, at points of highest elevation and after completion of the test the taps shall be tightly plugged unless otherwise specified. After the line or section thereof has been completely filled, it shall be allowed to stand under a slight pressure for a minimum of twenty (24) hours to allow the escape of air from any air pockets and to allow the PVC pipe with elastomeric gasket seal to absorb as much water as possible.

During this period, all exposed pipes, fittings, valves, hydrants, joints and coupling shall be examined for leaks. If found to be cracked or defective, they shall be removed and replaced by the Contractor with sound material at his own expense. The pipeline shall be refilled and all joints and connections shall be

examined for leaks. The test shall consist of holding the test pressure on each section of the line for a period of two (2) hours.

The test pressure at the lowest point shall be according to the class of pipe installed, class 150 lb, and as approved by NPC. Pressure gauges shall be provided at all ends of the section tested. The water necessary to maintain the pressure shall be measured through a meter or by other means satisfactory to NPC. The leakage shall consider the amount of water entering the pipeline during the two-hour test period. All other types of pipes shall have an allowance leakage not exceeding *1.85 l/mm (20 gal/in) of diameter of pipe per kilometer (mile) per day*. Should any test of a section of pipeline disclose joint leakage greater than that permitted, the Contractor shall, *at his own expense, locate and repair or replace the defective pipe, fittings, joints, coupling or other appurtenances*. The test shall then be repeated until the leakage is within the permitted allowance.

Connection points between newly installed and existing mains shall be tested after the pipe has passed the pressure and leakage test specified above. All visible leaks shall be repaired by the Contractor at no expense to NPC.

Pipeline Disinfecting

Before placing the pipeline into service and before the issuance of certificate of completion, all new water mains or extensions or valved section of such extension or any replacement in the existing water system shall be disinfected with chlorine. The Contractor may use any of the methods of disinfections as recommended by the American Water Works Association (AWWA) or any of the following kinds of treatment:

1. Chlorine Gas-Water Mixture;
2. Calcium-Hypochlorite or equal; or
3. Dry Calcium Hypochlorite or Chlorinated Lime and Water Mixture.

Retention period shall be at least 24 hours and shall produce not less than 10 ppm at extreme end of the lines at the end of the retention period. After flushing, residual chlorine must be reduced to less than 1 ppm.

Disinfection shall be completed not more than three (3) days prior to placing the pipeline into service unless otherwise approved by NPC and care shall be taken to prevent recontamination of the pipeline. A bacteriological test shall be taken, at the expense of the Contractor prior to the acceptance of the pipeline disinfected.

TS-07 CHLORINATION SYSTEM AND PIPELINE SHED**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 injuring 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	2.456
8	0.395	25	3.854
10	0.616	28	4.833
12	0.888	32	6.313
16	1.579	36	7.991

Mixing Concrete at site

Concrete mixers may be of the revolving drum or there evolving 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.

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.

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)
10 to 20	6d
25 to 28	8d

Bends and hook in 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 be 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	Grade 40 min. lap	Grade 60 min. lap	But not less than
Tension	24 bar dia	36 bar dia	300mm
Compression	20 bar dia	24 bar dia	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 otherwise shown on the Plans.

WELDING WORKS

General

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

Work Included

- The work included under this section shall include the furnishing, fabrication, erection and/or installation of all steel roof framing, steel girts and other work indicated in the Plans and Specifications.

Materials

- a) Rectangular/Square tube shall have a 1.20mm thickness
- b) All arc-welding electrodes shall conform to the requirements of the American Welding Society "SPECIFICATIONS FOR IRON AND STEEL ARC- WELDING ELECTRODES" latest edition

Connections

- a) Shop connections shall be welded unless otherwise indicated in the Plans. All connections shall develop full strength of members.

Workmanship and Fabrication

- a) Workmanship and fabrication shall be in accordance with AISC "Specification for Fabrication and Erection of Structural steel for Buildings" and with the following outline.
- b) Bearing surfaces shall be planed to true beds. Abutting surfaces shall be closely fitted
- c) All columns and bearing stiffeners shall be milled to give full bearing over the cross section. It shall not be necessary to plane bottom surfaces of plate on grout beds.
- d) Assembled parts shall be brought into close contact, and drift pin shall be used only for bringing members into position, not to enlarge or distort holes.

Welding

- a) Welding in shop and field shall be done by qualified welders. Equipment shall be of the type, which produce proper current so that operator may produce satisfactory welds. The welding machine shall be of 300 amperes, 200 -240 volts capacity.
- b) Unless otherwise shown on the Plans, the following low hydrogen electrodes shall be used and shall be suitable for positions and other conditions of intended use in accordance with the Instruction with each container.

<u>Welding</u>	<u>Electrode</u>	<u>Submerged Arc Process</u>
A-7 to A-7	E - 60 Series	Grade SAW-2
A-7 to A-38	E - 70 Series	Grade SAW-2

A-36 to A-36

E'- 70 Series

Grade SAW-2

- c) The technique of welding employed, the appearance and quality of welds made, and the methods of correcting defective work shall conform to the American Welding society code for arc welding. Surfaces to be welded shall be free from loose scale, rust, grease, paint and other foreign material except that mill scale, which withstands vigorous wire brushing, may remain
- d) Finish members shall be true to line and free from twists, bends and open joints.

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.

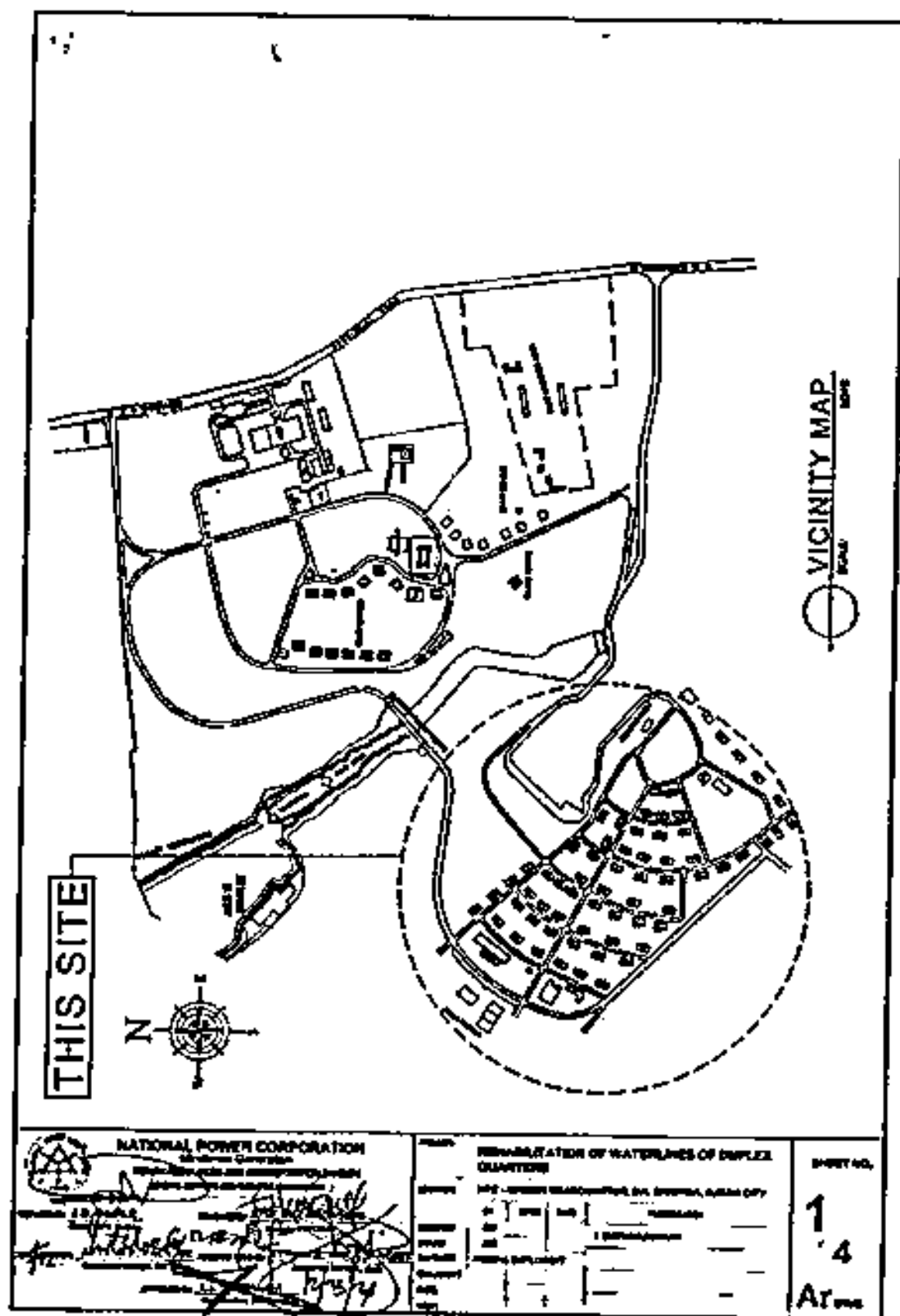
TS- 08 CLEARING AND DEMOBILIZATION

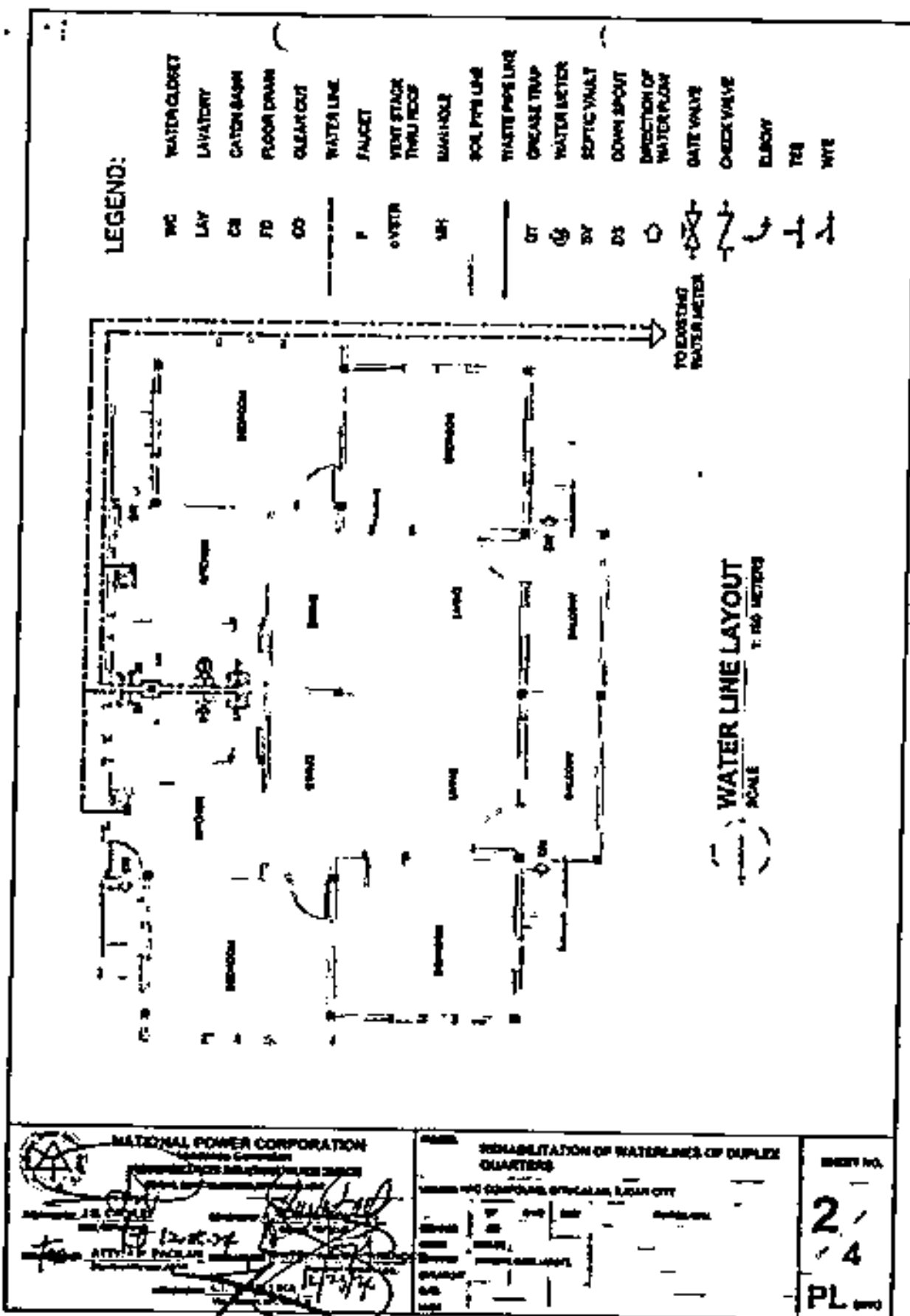
Before moving out, the contractor shall restore the orderly state of worksite by clearing all temporary structures. Remove all excess/waste materials and store in designated areas.

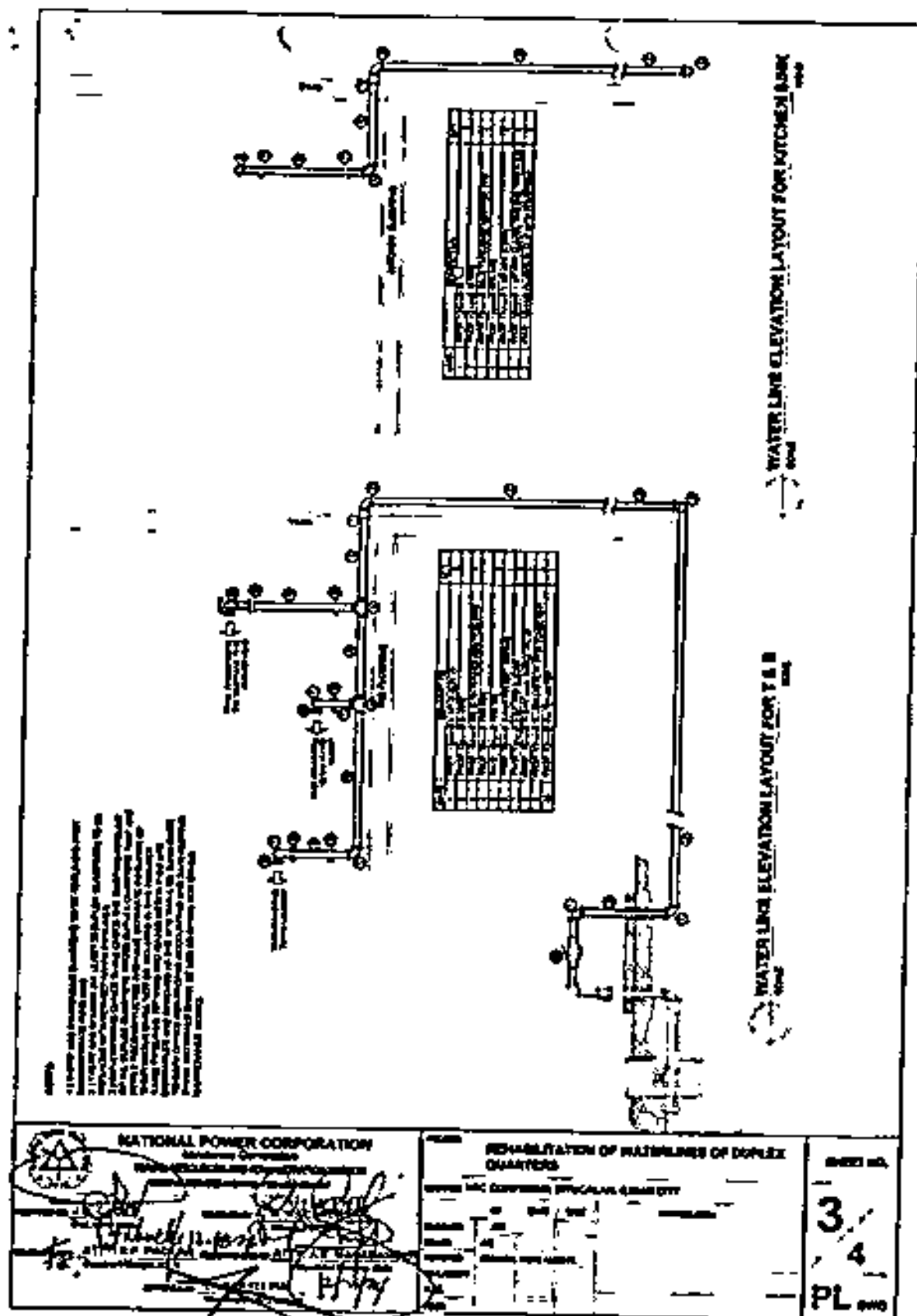
Before the Contractor will demobilize its construction equipment/ tools, materials and crew, he shall secure approval from NPC security office for the release of the contractor's equipment and to surrender the workers Identification (I.D) cards. A joint inspection with the NPC Inspector and Contractor 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.

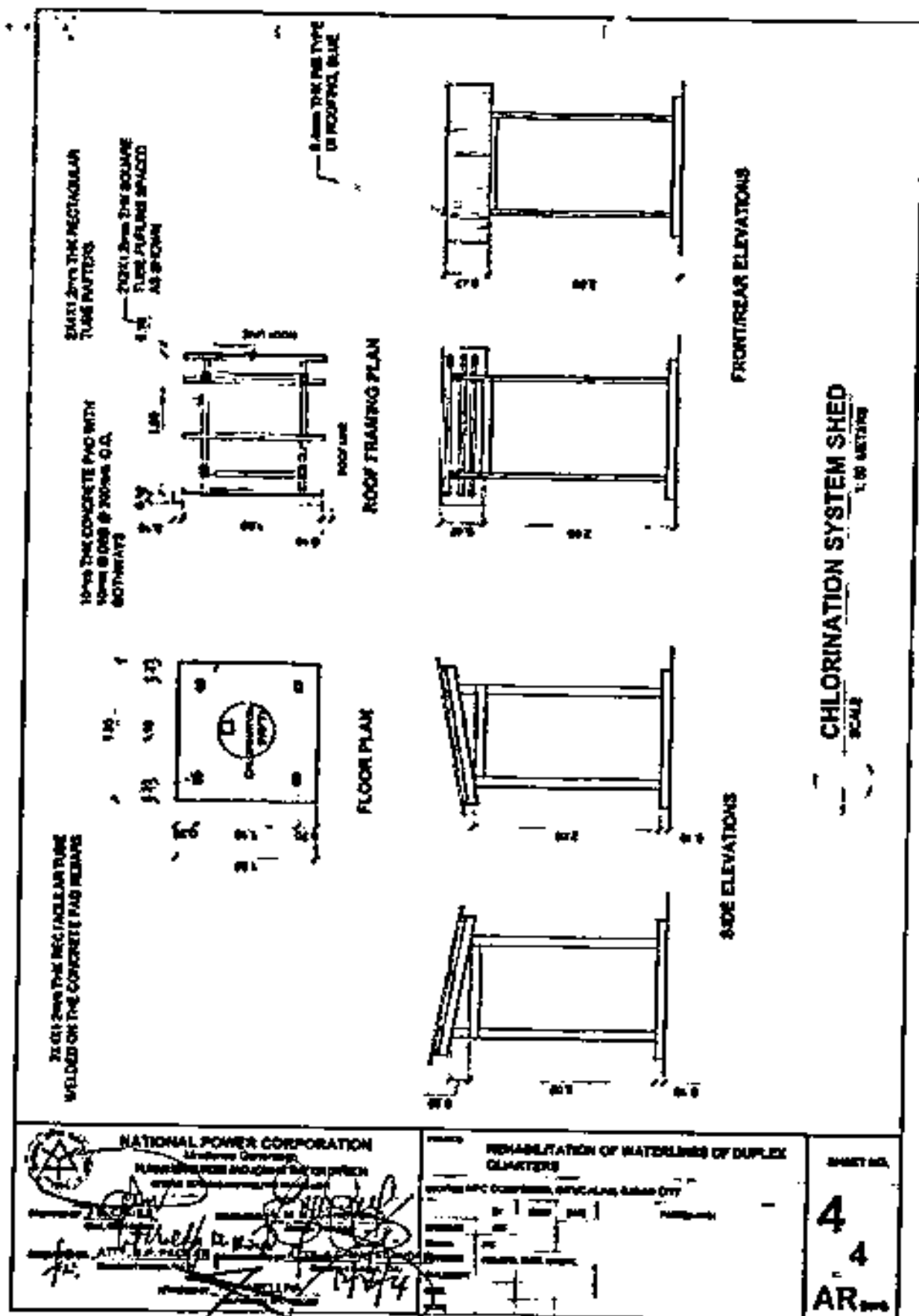
Section VII. Drawings

Sheet No.1/4	: Vicinity Map
Sheet No.2/4	: Waterline Layout
Sheet No.3/4	: Waterline Elevation Layout for T & B, Waterline Elevation Layout for Kitchen Sink
Sheet No.4/4	: Chlorination system Shed









Section VIII- Bill Of Quantities

SECTION VIII - BIDDING
FORMS(Name of Project) : REHABILITATION OF WATERLINES OF
DUPLEX QUARTERS

(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	DISMANTLE, REMOVAL OF EXISTING PIPELINES (FROM WATER METER TO T&B KITCHEN SINK) AND TURN-OVER TO GSFM	1.00	lot	_____ (PHP _____)	PHP _____
3	INSTALLATION OF GPPR PIPELINE FROM WATER METER TO TOILET & BATH AND KITCHEN SINK INCLUDING FITTINGS	83.00	units	_____ (PHP _____)	PHP _____
4	CHLORINATION SYSTEM AND PIPELINE SHED	4.00	units	_____ (PHP _____)	PHP _____

BID DOCUMENTS

SECTION VIII- BILL OF QUANTITIES

REHABILITATION OF DISTRIBUTION WATERLINES OF DUPLEX
QUARTERS

PR NO. REF. NO.: MO-ADU23-003UNPRA2025-ADN-Q15

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;*
or

Technical Documents

- ☒ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, using NPC-MinGen Standard Form No. NPCMGNSF-INF-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-INF-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-INF-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-INF-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), ¹⁻⁴ 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-INFR-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-INFR-11a, including NPC-MinGen Standard Form No. NPCMGNSF-INFR-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-INFR-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**

BID DOCUMENTS

REHABILITATION OF DISTRIBUTION WATERLINES OF
DUPLEX QUARTERS

SECTION IX- CHECKLIST OF TECHNICAL &

FINANCIAL DOCUMENTS

PR NO. REF. NO.: HQ-ADM25-000AN-FRAC2025-ADM-015

Standard Form Number: NPCM/GNSF-INFN-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 No.	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 Contractor's Performance Evaluation System (CPES).
- In case of the contracts with the private sector, an equivalent document (Ex. Official Receipt) shall be accepted.

Submitted by : _____
(Contractor Name & Signature)

Designation : _____
Date : _____

00722222

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 grater sum than the specified penalty of this bond, nor
- b) Liable for a greater sum that 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 DECLARATIONProject 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.*

BID DOCUMENTS

REHABILITATION OF DISTRIBUTION WATERLINES OF
DUPLEX QUARTERS

SECTION IX- CHECKLIST OF TECHNICAL &
FINANCIAL DOCUMENTS

PR NO./REF. NO.116-ADM25-003/INFRA2025-ADM-015

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/MC II/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 and/or current 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 Plumber and Registered Master Electrician.

Submitted by:

(Printed name & Signature)

Designation:

Date:

BID DOCUMENTS

REHABILITATION OF DISTRIBUTION WATERLINES OF
DUPLEX QUARTERSSECTION IX. CHECKLIST OF TECHNICAL &
FINANCIAL DOCUMENTS

PR NO./REF. NO.: WIG-ADM25-003/INFR2025-ADM-015

Standard Form Number : NPCMGN5F-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
A. Owned							
I.							
II.							
III.							
IV.							
B. Leased							
I.							
II.							
III.							
IV.							
C. Under Purchased Agreements							
I.							
II.							
III.							
IV.							

Submitted by: _____

(Printed name & signature)

Designation: _____

Date: _____

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

Standard Form No: NPCMGNSF-INFRA-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 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-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.

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-INF-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-INFRA-10

Bid Form for the Procurement of Infrastructure Projects

BID FOR Date : _____
Project Identification No. : _____

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

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

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

¹ currently based on GPPB Resolution No. 09-2020

BID DOCUMENTS

REHABILITATION OF DISTRIBUTION WATERLINES OF
DUPLEX QUARTERSSECTION IX- CHECKLIST OF TECHNICAL &
FINANCIAL DOCUMENTS

PR NOUREF. NO.: MG-ADM25-003/INFRA2025-ADM-015

- 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: _____

REHABILITATION OF DISTRIBUTION WATERLINES OF COMPLEX QUARTERS

PR NO.REF. NO.: WG-ADM23-000344FRA2023-ADM-015

DETAILED COST ESTIMATE FORM

ନିମ୍ନଲିଖିତ ବିଧିବଦ୍ଧ:

[illegible]

Note: Bidders shall submit this form with Detailed Unit Price Analysis (DUPA) using NPMAGNSF-INFR-11b

Name, Signature of Authorized Representative

Designation

Standard Form Number: NTC 64GMSF 10/14-12b

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		

*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

II. Manpower Hourly Rates

Designation

Rate/Hr.

III. Equipment Hourly Rental Rates

Equipment Description

Rental Rate/Hr.

Name, Signature of Authorized Representative_____
Designation

Performance Securing Declaration (Revised)

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

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number Indicated In the Bidding Documents]

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

I/We, the undersigned, declare that:

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

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

BID DOCUMENTS

REHABILITATION OF DISTRIBUTION WATERLINES OF
DUPLEX QUARTERS

SECTION IX- CHECKLIST OF TECHNICAL &
FINANCIAL DOCUMENTS

PR NO./REF. NO.: MG-ADM25-003/INFRA2025-ADM-013

***[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]

