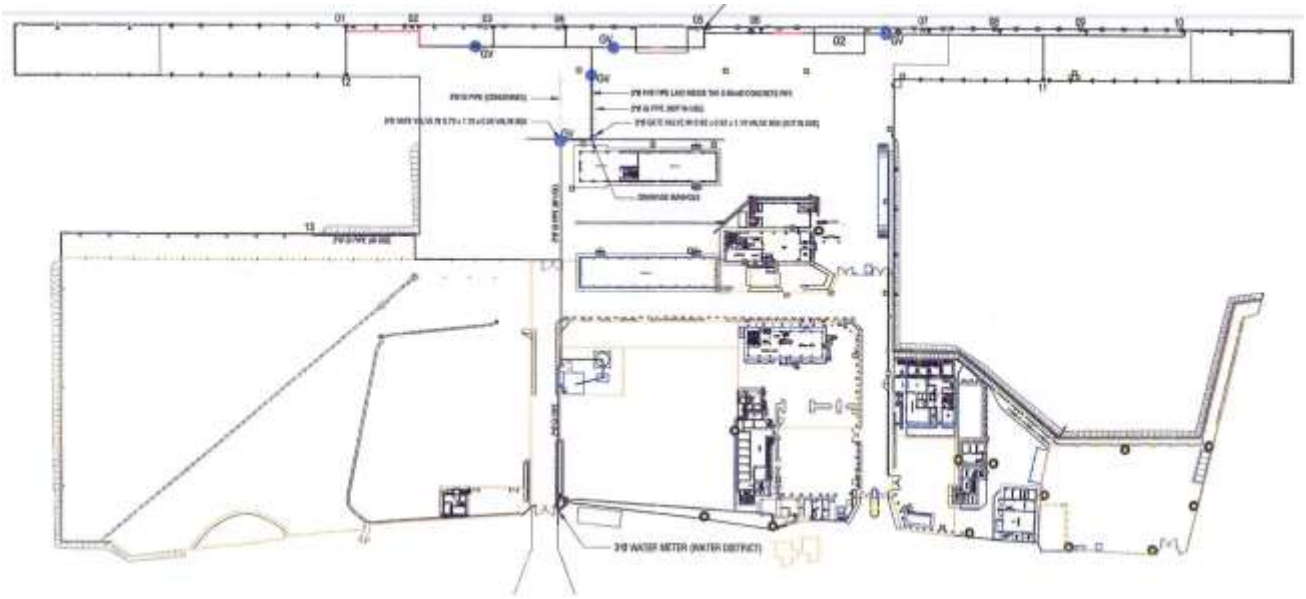
PHILIPPINE PORTS AUTHORITY

Repair of Port Water Supply System, Port of Puerto Princesa, Palawan (NRP-PLW-04-2020)



BID DOCUMENTS

December 2020

TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms……..……..3
Section I. Invitation to Bid……6
Section II. Instructions to Bidders……...……..9
1. Scope of Bid
2. Funding Information
3. Bidding Requirements
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices
5. Eligible Bidders
6. Origin of Associated Goods
7. Subcontracts
8. Pre-Bid Conference
9. Clarification and Amendment of Bidding Documents
10. Documents Comprising the Bid: Eligibility and Technical Components
11. Documents Comprising the Bid: Financial Component
12. Alternative Bids
13. Bid Prices
14. Bid and Payment Currencies
15. Bid Security
16. Sealing and Marking of Bids
17. Deadline for Submission of Bids
18. Opening and Preliminary Examination of Bids
19. Detailed Evaluation and Comparison of Bids
20. Post Qualification
21. Signing of the Contract

Section III. Bid Data Sheet……...15
Section IV. General Conditions of Contract……18
1. Scope of Contract
2. Sectional Completion of Works
3. Possession of Site
4. The Contractor's Obligations
5. Performance Security
6. Site Investigation Reports
7. Warranty
8. Liability of the Contractor
9. Termination for Other Causes
10. Dayworks
11. Program of Work
12. Instructions, Inspections and Audits
13. Advance Payment
14. Progress Payments
15. Operating and Maintenance Manuals

Section V. Special Conditions of Contract……..…22
Section VI. Specifications……..24
Section VII. Drawings……..……36
Section VIII. Bill of Quantities……...37
Section IX. Checklist of Technical and Financial Documents……..……47
Section X. Bidding Forms……..50

GLOSSARY OF TERMS, ABBREVIATIONS, AND ACRONYMS

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Invitation to Bid
for the
Repair of Port Water Supply System,
Port of Puerto Princesa, Palawan

1. The **Philippine Ports Authority PMO Palawan**, through the **Corporate Budget of the Authority for CY 2020** intends to apply the sum of **Php 3,640,675.00** being the Approved Budget for the Contract (ABC) to payments under the contract for **Repair of Port Water Supply System, Port of Puerto Princesa, Palawan**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The **Philippine Ports Authority PMO Palawan** now invites bids for the above Procurement Project. Completion of the Works is required **120 Calendar Days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

4. Interested bidders may obtain further information from **Philippine Ports Authority PMO Palawan Bids and Awards Committee** and inspect the Bidding Documents at the address given below from **8:00 A.M. to 5:00 P.M., Monday to Friday**.

5. A complete set of Bidding Documents may be acquired by interested bidders on **December 29, 2020 to January 18, 2021** from 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* **Php 5,000.00**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person.*

6. The **Philippine Ports Authority PMO Palawan Bids and Awards Committee** will hold a Pre-Bid Conference on **January 06, 2021, 4:00 P.M.** at Conference Room, 2nd Floor, PPA Administrative Building, Port Area, Puerto Princesa City and/or through videoconferencing/webcasting *via Zoom,* which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before **9:00 A.M.** of **January 18, 2021.** Late bids shall not be accepted.

8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.

9. Bid opening shall be on **January 18, 2021, 11:30 A.M.** at Conference Room, 2nd Floor, PPA PMO–Palawan Administrative Building, Port Area, Puerto Princesa City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The **Philippine Ports Authority PMO Palawan Bids and Awards Committee** 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.

    - **Required PCAB Registration (Minimum): At least SMALL B- Water Supply**

11. For further information, please refer to:

    MARIZA O. NALLANA
    Head Secretariat
    PMO Palawan BAC
    Port Area, Puerto Princesa City,
    Telephone No.: (048) 433-0356 or (048) 716-6864
    Email Address: pmopalawanbac@gmail.com

12. You may visit the following websites:

    For downloading of Bidding Documents: *www.ppa.com.ph*
    www.gppb.com.ph

December 29, 2020

JEMUEL B. APELLIDO
Chairperson
PPA PMO-Palawan BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Philippine Ports Authority PMO Palawan** invites Bids for the **Repair of Port Water Supply System, Port of Puerto Princesa, Palawan**., with Project Identification Number **NRP-PLW-04-2020**.

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 **Philippine Ports Authority** through the source of funding as indicated below for **CY 2020** in the amount of **Php 3,640,675.00.**

2.2. The source of funding is:

a. Corporate Operating Budget.

3. Bidding Requirements

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

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

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

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

5. Eligible Bidders

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

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

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

5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.

5.4. The Bidders shall comply with the eligibility criteria under Section

5.5. 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.

7.2 Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address **Philippine Ports Authority PMO Palawan, Port Area, Puerto Princesa City, Palawan** and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB.**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. *Payment of the contract price shall be made in:*

a. Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

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

16. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Major Categories of Work — Unit of Measure — Required Quantity 1. Underdeck and Underground Piping Installation — l.m. — 415 2. Installation of Water Meters and Accessories — units — 12 3. Concrete Works — cum — 11
7.1	Subcontracting is not allowed
10.3	For Joint Venture : Special PCAB License
10.4	The key personnel must meet the required minimum years of experience set below: Key Personnel — General Experience — Relevant Experience 1) Project Manager — Infrastructure/Civil Works — Building Construction 2) Project Engineer — Infrastructure/Civil Works — Building Construction 3) Materials Engineer — Infrastructure/Civil Works — Building Construction 4) Safety and Health Officer — Infrastructure/Civil Works — Building Construction 5) Foreman — Infrastructure/Civil Works — Building Construction NOTE: Required Personnel minimum years of experiences: at least two (2) years of experience
10.5	The minimum major equipment requirements are the following: Equipment — Capacity — Number of Units Concrete Cutter — 12" Ø blade — 1 Concrete Mixer — 1 bagger — 1 Concrete Vibrator — 3.5 HP — 1 Air Compressor with Jackhammer — 250 cfm — 1 Welding Genset, Diesel-driven — 400A — 1 Dump Truck — 8 cum — 1 Plate Compactor — 5HP — 1 Cut-off Machine — 14" Ø blade — 1 Pipe Threader — up to 3"Ø — 1
12	Value Engineering Clause: **Not Allowed**
15.1	The bid security shall be in the form of a Bid Securing Declaration **OR** any of the following forms and amounts: a. The amount of not less than **Php 72,813.50**, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than **Php 182,033.75** if bid security is in Surety Bond.

16	Each Bidder shall submit One (1) original and Four (4) copies of their Technical and Financial Bid, properly book-bound with hard/soft cover. Screw-bound, ring-bound and combo-bound documents are not acceptable. Failure to comply with these requirements shall be a ground for disqualification.
19.2	Partial bid is not allowed
20	Other appropriate licenses and permits required: **None**
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.

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

3.1 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.

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

4. The Contractor's Obligations

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

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

5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both

parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

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

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC.**

15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	Sectional completion: **None**
4.1	*[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]*
6	The site investigation reports are: **None**
7.2	Semi-permanent structures: Five (5) years Buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 15 days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is _____.
13	No advance payments or mobilization fees shall, as a rule, be extended or paid to the winning bidder per DOTr memorandum dated July 10, 2018.
14	No further instruction
15.1	The date by which operating and maintenance manuals are required is _____. The date by which "as built" drawings are required upon submission of Final Billing.
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 _____.

Section VI. Specifications

REPAIR OF PORT WATER SUPPLY SYSTEM
PUERTO PRINCESA, PALAWAN

TECHNICAL SPECIFICATIONS

1.0 GENERAL SCOPE OF WORK

The work involves the excavation and backfilling of pipe trenches, furnishing, laying and jointing of G.I. pipes, valves and fittings and the construction of thrust blocks and concrete saddles. The work will also include the furnishing and installation of new water meters, replacement of defective ones, provision of new water meter boxes and valve boxes with steel covers, including accessories to the water distribution line at the locations and elevations indicated on the drawings, or as maybe directed by the Engineer and in accordance with the requirement of the Specifications.

2.0 GENERAL REQUIREMENTS

2.1 MOBILIZATION AND DEMOBILIZATION

2.1.1 SCOPE OF WORK

This Section includes mobilization, demobilization, assembly and disassembly of equipment/plants including incidentals necessary to complete the work.

2.1.2 MOBILIZATION

a) The Contractor shall mobilize and put into operation all equipment and plants required to undertake the Contract.

b) Mobilization shall include the transferring to the job-sites of all equipment, plants, supplies and materials, personnel, and all items necessary for the execution and completion of the work, and shall also include the setting up of all equipment, instruments and all other plants until rendered operable, subject to the confirmation of the Engineer.

c) Sufficient supply of spares for the equipment and plants shall be carried on-site. Equipment/plants encountering breakdowns must be repaired on site by the most expeditious method possible at no cost to the Procuring Entity. In the event that the equipment/plants call for major repair works that cannot be undertaken at the site, the Contractor shall replace such equipment/plants with equal or better performance capacity at no additional mobilization costs to the Procuring Entity and the Contractor shall not be entitled to any time extension.

2.1.3 DEMOBILIZATION

Demobilization upon request of the Contractor and approved by the Engineer, shall include the following:

The dismantling, preparation and loading for removal and shipment of all Contractor's plant, equipment and personnel at site after completion of the works.

3.0 CONSTRUCTION PHOTOGRAPHS

Provide record progress photographs taken at a fixed point and angle as, when and where directed by the Engineer at intervals of not more than ten (10) days. The photographs shall be sufficient in number and location to record the exact progress of works. The Contractor shall provide the Engineer all the photographs stored in CDs- properly labeled. Billing photographs shall be in 4R size with corresponding billboard indicating the name of the project and location, bill number, item number, name of the person taking the photograph, date taken and the on-going activity.

4.0 MONTHLY PROGRESS REPORT

The Contractor shall maintain a daily log describing the important events pertaining to the Works, the working hours, the number of laborers employed, effective operation time of equipment, overtime hours, delays due to meteorological and maritime conditions, weather condition, lack of labor, materials or equipment, progress made including instructions, notifications, issues and concerns and recommendations made by the Engineer.

5.0 AS-BUILT DRAWINGS AND FINAL CONSTRUCTION REPORT

Within thirty (30) calendar days after the issuance of the Taking Over Certificate, the Contractor shall prepare and as-built drawings and a final construction report as draft. And within thirty (30) calendar days after the issuance of the Taking Over Certificate, the Contractor shall submit the Final Construction Report and Final As-Built drawings.

6.0 SAFETY

The Contractor shall be responsible for the safety of its workers. Wearing of personal protective equipments (PPEs) shall be mandatory.

At the end of each day's work, the site shall be left in safe condition, so that no part is in danger of toppling, or falling or creating hazards to personnel or equipment. The construction site shall be properly lighted at night. Warning signs shall be properly located for the safety of the port users.

Safety guidelines as stipulated in PPA Engineering Circular 01-2020 pertaining to the implementation of PPA projects during the COVID-19 public health emergency must be observed and implemented.

7.0 SITE WORKS

7.1. DEMOLITION, EXCAVATION AND DISPOSAL WORK

7.1.1 GENERAL PROVISIONS

This section shall be applied to the demolition work of existing port structures as well as disposal of debris/unusable materials and storage of usable materials.

The Contractor shall be deemed to have satisfied himself of the site conditions, and to have included in his unit prices provision for all risks that may arise during or in connection with the work.

The demolition work shall be carried out by approved methods and equipment such as concrete breakers, gas-cutters, hydraulic jacks, compressed air disintegrators, etc., however, no blasting shall be used unless approved in writing by the Engineer and after obtaining the written permission of the concerned Authorities.

The Contractor shall provide suitable equipment, skilled labor and appropriate temporary works such as scaffoldings to ensure safety in his demolition works as well as in the adjacent area.

The Contractor shall demolish all the structural members above the level on which the subsequent and permanent works under this Contract will begin. To this end, the temporary construction works such as excavation shall be conducted by the Contractor.

Materials coming from the demolition works, except general earth, shall remain the property of the Procuring Entity, the designated part of which shall be stored by the Contractor at places specified by the Engineer's authorized Representative

7.1.2 EXCAVATION

The Contractor shall carry out all excavation as required by the work. All excavation shall be carried out to lengths, widths, depths and profiles as designed or to such other dimensions as may be approved in writing by the Engineer.

Excavation shall be carried out in such a way as to avoid disturbance to the surrounding ground and other existing works.

Particular care shall be taken to maintain stability when excavating in close proximity to existing structures, and for underground utilities. The Contractor shall comply with all instructions of the Engineer regarding the supporting of the sides of excavation and shall be entirely responsible for the sufficiency of all temporary timbering and supports to the excavation. Any unsound formation areas or underground utility uncovered as a result of the excavation shall be reported to the Engineer immediately for his instructions.

7.1.3 BACKFILLING

Care should be observe during backfilling so as not to displace the laid pipe. It should be compacted in layers not exceeding 150mm.

7.1.3 DISPOSAL AND STORAGE

Prior to the commencement of the demolition work, the Engineer shall submit to the Contractor a list in which all the materials to be salvaged and overhauled, as property of the Procuring Entity and the location of their storage shall be described. The Contractor shall separate materials to be salvaged from debris. Salvaged materials shall be loaded, transported and unloaded by the Contractor at the specified locations.

The Contractor may dump debris on land areas but out of the site, which areas shall be procured and prepared at his own expense. In this case, safety measures shall be undertaken in the transporting, unloading, covering and others as requested by the Engineer.

8.0 PARTICULAR REQUIREMENTS

8.1 NON – INTERRUPTION OF WATER SUPPLY

The Contractor shall ensure non-interruption of water supply. As such, proper timing for uninstallation of existing piping system shall be planned and coordinated.

8.2 WORKS AT THE OPERATIONAL AREA

To have minimum disturbance on cargo operations, works located at the operational area shall be done expeditiously. The contractor shall see to it that all resources (equipments, tools, materials and manpower) necessary to the execution of the work are in place. After pipes had been laid, immediate leak testing shall be performed, trench backfilled and compacted, and pavement restored.

8.3 PRESSURE AND LEAK TESTING

The contractor shall perform leak and pressure testing as the pipe installation is in progress, preferably for every six (6) lengths of pipe. However, final testing shall also be performed all the pipes and appurtenances has been installed to ensure the reliability of the whole system.

9.0 MATERIALS SPECIFICATIONS

9.1. REINFORCED CONCRETE WORKS

9.1.1 MATERIALS

9.1.1.1 Cement

Unless otherwise specified in the Drawings, only one (1) brand of cement shall be used for any individual structure. In determining the approved mix, only Portland cement, Type 1 (for general use in construction), ASTM 150 shall be used as the cementitious material.

9.1.1.2 Aggregates

1. Crushed Coarse Aggregate

Conforming to ASTM C 33 and having nominal sizes passing 38.0 mm to 19.0 mm, 19.0 mm to 9.5 mm to No. 4 sieve. The material shall be well graded between the limits indicated and individually stockpiled. It shall be the Contractor's responsibility to blend the materials to meet the gradation requirements for various types of concrete as specified herein.

Nominal sizes for combined gradation shall be as follows:

ASTM Sieves	Nominal Size of Coarse Aggregates % by Weight Passing			
	40 mm	25 mm	19 mm	10 mm
50.0 mm (2")	100	-	-	-
38.0 mm (1 ½")	95-100	100	-	-
31.8 mm (1 ¼")	-	90-100	100	-
25.0 mm (1")	-	-	90-100	-
19.0 mm (3/4")	35-70	25-90	-	100
16.0 mm (5/8")	-	-	20-55	85-100
9.5 mm (3/8")	10-30	0-10	0-10	0-20
No. 4	0-5			

2. Fine Aggregate

ASTM C 33 except for gradation which has been revised to meet local conditions unless otherwise required by the Engineer, grading of find aggregate shall be as follows:

ASTM Sieves	% by Weight Passing
9.5 mm (3/8")	100
No. 4	90 - 100
No. 8	80 - 100
No. 16	50 - 90
No. 30	25 - 60
No. 50	10 - 30
No. 100	2 - 10

a. Grading of fine aggregates shall be reasonably uniform and fineness modulus thereof shall not vary more than 0.2 from that of the representative sample in which mix proportions of concrete are based.

b. Due care shall be taken to prevent segregation.

9.1.1.3 Reinforcement

a. Steel reinforcement, other than Steel for Prestressing, used in Reinforced Concrete, shall conform to ASTM as follows:

ASTM Designation A615-Deformed Billet Steel Bars for Concrete Reinforcement. Minimum yield strength of 230 MPa (33,400 psi) for diameter of 6 mm to 10 mm and 276 MPa (40,000 psi) for diameter of 12 mm to 36 mm.

b. All bar reinforcement shall have deformed surfaces except that 6 mm bars may be plain.

c. Reinforcement shall be protected from corrosion causing agents by providing a minimum concrete cover of 75mm with maximum variation of 9mm.

d. Splicing. Main rebars shall be spliced using lap splices with a minimum length of the longer of $0.02A_bf_y/\sqrt{f'c}$ and $0.375d_bf_y/\sqrt{f'c}$, but should not be less than 300mm.

9.1.1.4 Tie Wire

Tie wire shall be plain, cold drawn annealed steel wire, #16 Galvanized. All reinforcement intersections shall be properly tied.

9.1.1.5 Water

The water used in concrete, mortar and grout shall be free from objectionable quantities of silt, organic matter, alkali, salts and other impurities. Sea water shall NOT be used at any time.

9.1.2 STRENGTH REQUIREMENT

Concrete of shall be proportioned and mixed to achieve a 28th day compressive strength of 3,500 psi (24MPa).

9.1.3 CONSISTENCY

a. Slump: Tests shall be made in conformance with ASTM C 143, and unless otherwise specified by the Engineer, slump shall be 50mm minimum and 90mm maximum.

b. In addition to the above, the maximum permissible water-cement ratio by weight shall not be greater than 0.55 unless otherwise permitted by the Engineer.

9.1.4 CURING

1. Concrete shall be protected against moisture loss, rapid temperature changes, mechanical injury from rain or flowing water, for a minimum period of 28 days.

9.2. PIPES, FITTINGS AND APPURTENANCES

9.2.1. MATERIALS

9.2.1.1 Pipes and Fittings

G.I. pipes and fittings shall be hot-dip galvanized iron (G.I.) conforming to ASTM A 53 subject to the specific exceptions or additional requirements noted in this Section. All G.I. pipes shall be schedule 40. Ends shall be threaded according to ANSI B 2.1.

The pipe shall meet the requirement of the National Sanitation Foundation for potable water use as tested by the Department of Science and Technology or other testing laboratories authorized by the Government and shall be made from non-toxic materials.

9.2.1.2 Water Meters

Water meter should be 2"Φ, flange type, with neophrene gasket and bolt connected.

The meters to be supplied shall be the multi-jet type. They shall be suitable for domestic cold water use, with magnetic coupling and a register, that will continually ensure a day dial lens and these shall be complete with flange and bolts with nuts. They shall be able to withstand shock during transport, handling, delivery and installation.

The multi-jet meter shall have a revolving element in the form of a bladed rotor mounted on a spindle within a cylindrical measuring chamber. The liquid enters the chamber through a number of tangential openings around the circumference of one level and leaves through similar openings of another level. The basic principle of design is that over the working range of the meter, the speed of rotation of the rotor bears a linear relationship to the velocity of flow through the meter.

The lens covering the register dial shall be securely fastened and shall be of clear glass of 5 mm minimum thickness, tempered or otherwise hardened such as to be resistant to impact and abrasion.

Impact resistance shall be such as to resist the impact of a 25 mm diameter steel ball dropped from a height of one (1) meter, without sustaining any evident damage.

The lens covering the register dial shall be securely fastened and shall be of clear glass of 5 mm minimum thickness, tempered or otherwise hardened such as to be resistant to impact and abrasion.

Impact resistance shall be such as to resist the impact of a 25 mm diameter steel ball dropped from a height of one (1) meter, without sustaining any evident damage.

Each meter shall be supplied with copper wire and lead seal system to discourage unauthorized opening or removal of the meter and also to indicate if such unauthorized action has occurred. All elements of the sealing system, including length of wire, location of wire holes, etc., shall be suitable for covering all possible means of tampering, in particular disturbance of the coupling nuts, accuracy of the adjustments device or of the register assembly. The lead seal shall be blank and suitable for sealing by a compression tool, supplied by others, containing a unique embossing symbol

Each meter shall incorporate a tamper-resistant device which shall function separately from the wire and lead seal, and which is intended to deter entry into the register assembly.

9.2.1.3 Valves and Appurtenances

a) General

Valve ends shall be at the Contractor's option except as specified by the Engineer and where specifically called for on the drawings. Caulked-typed bell ends shall not be allowed for 200 mm and larger valves.

All valves shall have the direction arrow for opening, the name for manufacturer and the working pressure for which they are designed, cast in raised letters

upon an appropriate part of the body. In addition, valves designed for one-way flow only shall have a direction arrow cast on the body.

All interior part of valves manufactured of bronze (except valve stems) shall conform to the requirements of ASTM B62 unless otherwise stated.

Gate and check valves shall be suitable for use under operating conditions of 100 meter water column. Operating nuts and valve operators shall turn counterclockwise to open.

The Contractor shall submit manufacturer's certified drawings showing the principal dimensions, construction details and materials used for all parts of the valve and full details of valve stem extensions, including materials, dimensions, fabrication, torque limits, method of connection to the valve and box and stem guides when required to avoid buckling.

b) Gate Valves

Gate valves with a diameter of 75 mm above shall be flanged type and made of cast iron. The waterway shall be unobstructed and of a diameter not less than full diameter of the valve when in the open position.

The valves shall have a 50 mm square operating nut with the work "OPEN" and an ARROW cast on showing that the valve opens by turning the operating nut counterclockwise.

Valves shall be of the non-rising stem type, with a minimum of two (2) "0" ring seals, of which at least one (1) shall be above the stem collar and replaceable under full working water pressure while the valve is in the fully open position.

Gate valves with a diameter of 75 mm below shall be bronze type with threaded connection designed for a water working pressure not less than 1.0 MPa (150 psi).

d) Valve Box

Valve boxes for gate valves where required shall be made of concrete with flap type steel cover.

9.2.2 INSTALLATION

9.2.2.1 Installation of Pipes and Fittings

The pipes shall be accurately installed to the line, levels, grades and positions set out by the Contractor based on survey to be conducted by the Contractor and referred from data shown on the drawings, under the direction and approval of the Engineer.

Prior to installation of a pipe, adequate inspection of the pipe body for cracks or other defects shall be performed. The inside of the pipe shall be thoroughly cleaned prior to installation.
Straight piping shall not be inclined more than a definite angle limit as directed by the Engineer.

At any place where the pipe is to cross an existing buried structure, there will be a separation of at least 300mm.

Pipes, valves and fittings shall be carefully examined on defects at the time of installation. Any defective material discovered before, during or after being installed shall be permanently marked, removed from the jobsite, and replaced with sound material.

Where it is required to join pipes, valves, or fittings of different type, size, or joint combination, adapters shall be used of a class and type appropriate to the connecting ends as shown on the drawings.

All pipe joint preparation and jointing operations shall comply with the instructions and recommendations of the approved pipe manufacturer.

Piping shall be properly supported by suitable anchor, bracket or hangers. Vertical pipes shall be anchored by suitable galvanized steel straps. Pipe supports shall be provided as shown on the drawings.

The Contractor shall be responsible for taking the measurements required to determine the lengths of cut portions of pipes for insertion as closing lengths in pipelines. The pipe and methods of jointing shall be such that the locations of fittings and lengths of pipe can be adjusted in the field to suit field conditions and variations in stationing and not extra payment will be made for such adjustments. The Contractor shall make all closures with suitable pipe and approved connections to compensate for cumulative errors in pipeline installation. The Contractor shall take every precaution to ensure that both the measurement and the cutting of pipes are to the accuracy required and should any errors occur the Contractor shall remedy same at his own expense and to the satisfaction of the Engineer.

9.2.2.2 Installation of Valves and Fittings

Valves shall be inspected in opened and closed position to ensure that all parts are in good working condition and interiors cleaned of all matters before installation.

Valves and fittings shall be installed at the points and manner as shown on the drawings and in accordance with the requirements of the approved installation instructions recommended by the approved manufacturer.

9.2.2.3 Installation of Water Meters

Water meters shall be installed in accordance with AWWA specifications and as shown on the drawings or as directed by the Engineer.

9.2.3. TESTING

9.2.3.1 General

i) The Contractor shall furnish all necessary equipment and labor for carrying out a pressure test and leakage test on the pipelines. The procedures and methods for carrying out the pressure and leakage test shall be approved by the Engineer.

ii) The Contractor shall make any taps and furnish all necessary caps, plugs, etc., as required in conjunction with the testing of a portion of the pipe between valves. The Contractor shall also furnish a test pump, gauge, and any other equipment required in conjunction with carrying out the hydrostatic test.

9.2.3.2 Pressure Test

i) Pipeline tests shall be made on a portion of the pipeline between valves but shall not exceed 300 meters of the length of pipelines.

ii) After the pipes have been laid, the joints completed and the trench partially backfilled but the joints exposed for examination, all newly laid pipes or any valve section thereof shall be subjected to hydrostatic test pressure not less than 1.04 N/mm^2 for any and all kinds of pipes, fittings and valves, for at least 30 minutes unless otherwise directed by the Engineer.

iii) Pressure tests shall be made only after completion or partial backfill and at least seven (7) days after the last concrete thrust block has been cast.

iv) Each length of pipeline to be tested shall be slowly filled with water and the specified test pressure measured at the point of lowest elevation shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Engineer. During the filling operation of the pipe and before applying the 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 that test, the taps shall be tightly plugged.

During the test, all exposed pipes, fittings, valves joints and couplings will be examined. If found to be cracked or defective, they shall be removed and replaced by the Contractor at his expense. The test shall then be repeated until satisfactory results are obtained.

9.2.3.3 Leakage Tests

i) Leakage tests shall be conducted after satisfactory completion of the pressure tests and shall consist of an examination of all exposed joints for leakage as well as an overall leakage test of the completed pipeline.

The pressure to be maintained during the test shall be the average pressure to which the pipe will be subjected under normal conditions of service for at least two hours unless otherwise directed by the Engineer. The length of pipeline to be tested shall not exceed 300 meters. Each length of pipeline to be tested

shall be slowly filled with water and the specified test pressure, measured at the point of lowest elevation, shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Engineer.

10.0 CLEARING WORKS

The contractor shall clear the project site from all waste, and excess materials/ salvaged materials. All salvaged / excess materials shall be properly accounted upon completion of the project and shall be turned over to PPA.

Prepared by:

RELLY W. MADARCOS
Acting Principal Engineer A

Checked/Reviewed by:

MARLON N. SENDAYDIEGO
ESD Manager

Approved:

ELIZALDE M. ULSON
Acting Port Manager

Section VII. Drawings

PHILIPPINE
PORTS
AUTHORITY

PORT MANAGEMENT OFFICE
PALAWAN

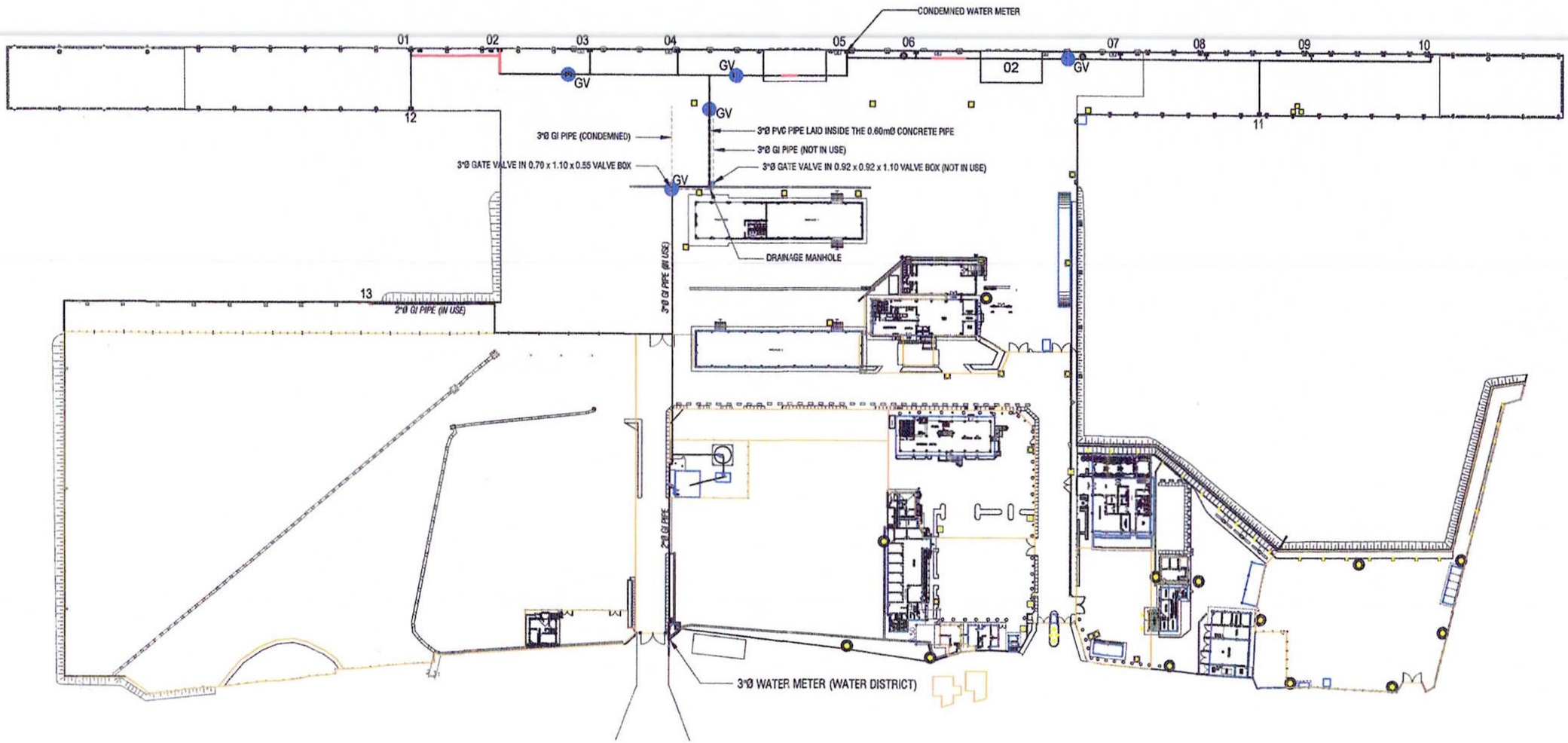
CONSTRUCTION DRAWINGS

REPAIR OF PORT WATER SUPPLY SYSTEM

PORT OF PUERTO PRINCESA

PUERTO PRINCESA CITY

PALAWAN



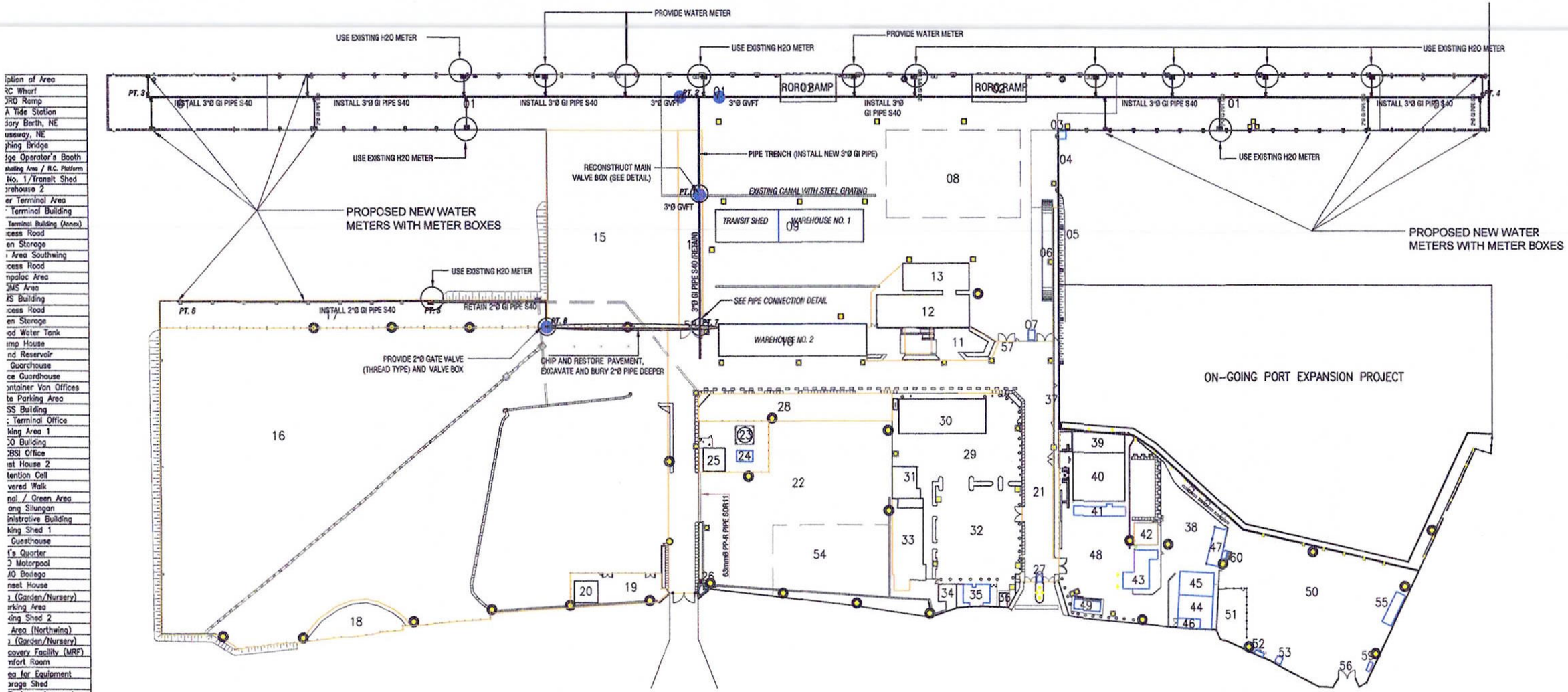
EXISTING WATER SUPPLY SYSTEM LAYOUT

SCALE 1:1500 METERS

PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE – PALAWAN PPA Administrative Building, Port Area, Rpy. Regorg Pegosa, Puerto Princesa City, Palawan Telefax. Nos. (048) 434-0926, Email address: pmopalawan@ppa.com.ph	PROJECT TITLE AND LOCATION: REPAIR OF PORT WATER SUPPLY SYSTEM PORT OF PUERTO PRINCESA, PALAWAN	DRAWN/PREPARED BY: RELLY W. MADARCOS SENIOR ENGINEER A	RECOMMENDING APPROVAL: MARLON N. SENDAYDIEGO ESD MANAGER	APPROVED BY: ELIZALDE M. ULSON ACTING PORT MANAGER	SHEET CONTENTS FILE NAME : PPC PORT WATER SUPPLY REPAIR	SHEET NO. 1 5 NOV. 2020

NOTES:

- ALL INSTALLEDF PIPING, FITTINGS, HANGERS AND OTHER METAL MEMBERS SHOULD BE PAINTED WITH 2 COATINGS OF EPOXY PRIMER AND ONE COATING OF EPOXY PAINT AS TOP COAT
- ALL EXISTING METER BOXES FOR REPAIR (NUMBERED 1-13)
- GVFT - GATE VALVE FLANGE TYPE
- PROVIDE 3"Ø UNION PATENTE IN EVERY 3 PIPES
- PROVIDE 2"Ø THREAD TYPE GATE VALVE AT EVERY START OF 2"Ø BRANCH
- DO NOT EXPOSE THREADS OF PIPE OR NIPPLE (FULL INSERT TO COUPLING)



ription of Area
RC Wharf
ORO Ramp
A Tide Station
dary Berth, NE
useway, NE
phing Bridge
dge Operator's Booth
nelting Area / R.C. Platform
No. 1/Transit Shed
rehouse 2
er Terminal Area
Terminal Building
Terminal Building (Annex)
cess Road
en Storage
Area Southwing
cess Road
npaloc Area
MS Area
IS Building
cess Road
en Storage
ad Water Tank
mp House
nd Reservoir
Guardhouse
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te Parking Area
SS Building
: Terminal Office
king Area 1
O Building
BSI Office
st House 2
tention Cell
vered Walk
nal / Green Area
ong Silungan
inistrative Building
king Shed 1
Guesthouse
f's Quarter
O Motorpool
IO Bodega
nset House
(Garden/Nursery)
rking Area
ding Shed 2
Area (Northwing)
(Garden/Nursery)
covery Facility (MRF)
nfort Room
ea for Equipment
orage Shed
Back-up Area gate
ance Control Gate
xit Control Gate
terials Storage Facility
uel Shed

SINGLE ARM PORT LIGHT

FLOOD LIGHT

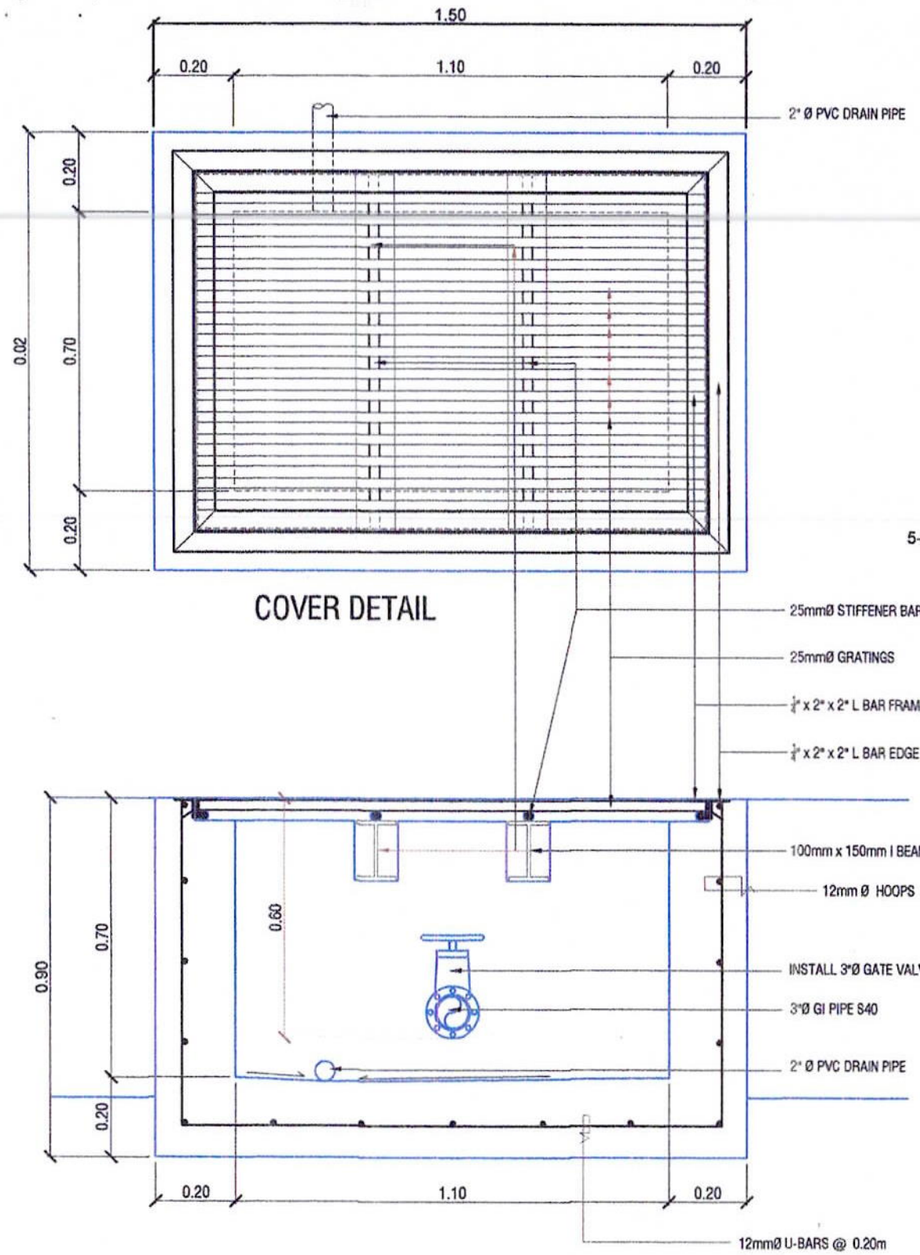
PROPOSED WATER SUPPLY SYSTEM LAYOUT

SCALE 1:1500 METERS

PHILIPPINE PORTS AUTHORITY

PORT MANAGEMENT OFFICE – PALAWAN
PPA Administrative Building, Port Area, Rpy. Begong Pagasa, Puerto Princesa City, Palawan
Telefax. Nos. (048) 434-5035, E-mail address: pmopalawan@ppa.com.ph

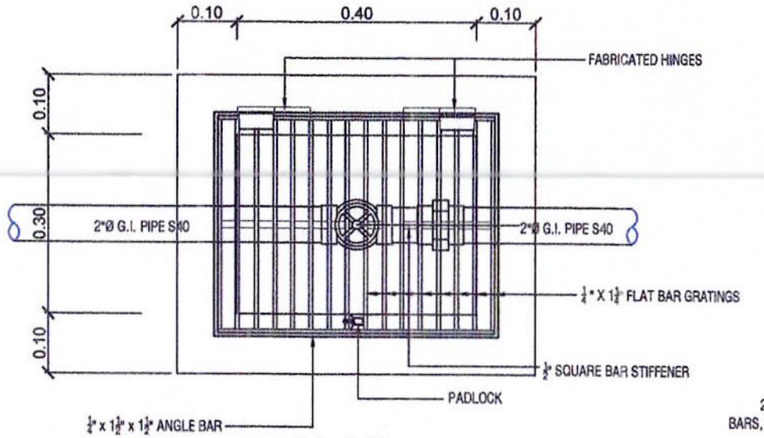
PROJECT TITLE AND LOCATION:	DRAWN/PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS	SHEET NO.
REPAIR OF PORT WATER SUPPLY SYSTEM PORT OF PUERTO PRINCESA, PALAWAN	RELLY W. MADARCOS SENIOR ENGINEER A	MARLON N. SENDAYDIEGO ESD MANAGER	ELIZALDE M. ULSON ACTING PORT MANAGER	FILE NAME : PPC PORT WATER SUPPLY REPAIR	2 5 NOV. 2020



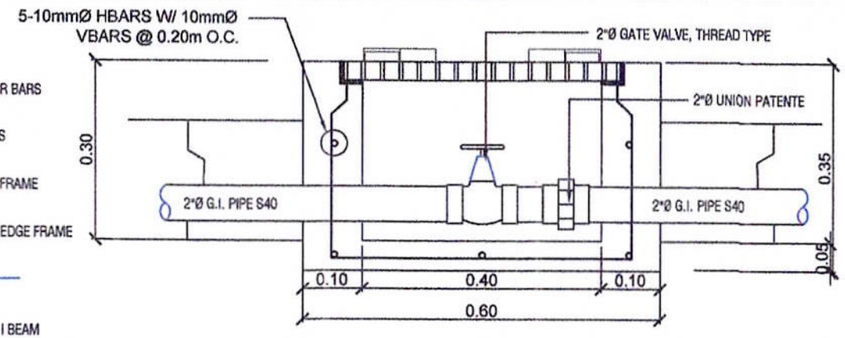
COVER DETAIL

MAIN VALVE BOX SECTION DETAIL

SCALE 1:15 METERS

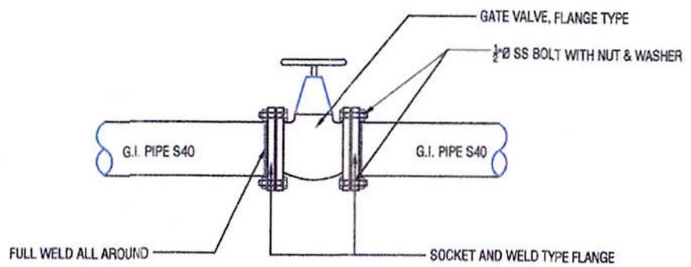


PLAN

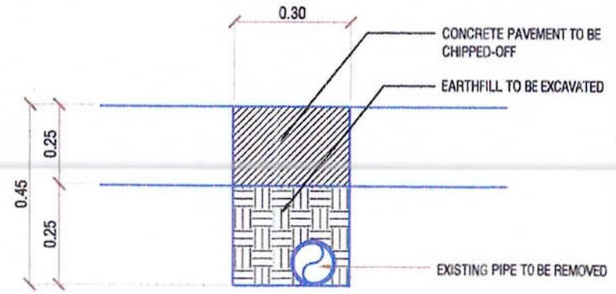


SECTION

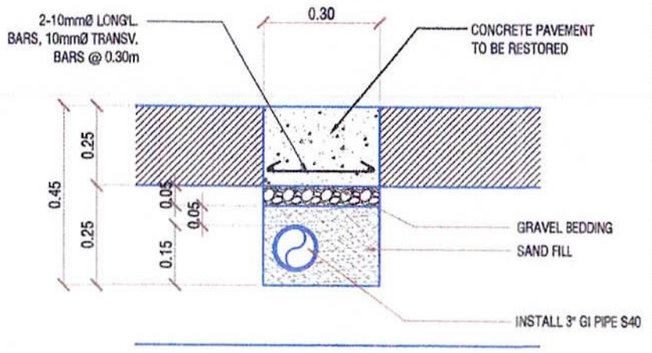
VALVE BOX DETAIL FOR 2" GATE VALVE (PT. 8)



FLANGE TYPE GATE DETAIL



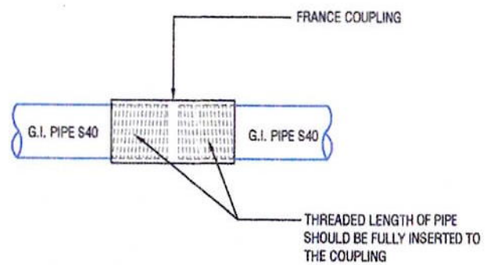
TRENCH EXCAVATION



TRENCH RESTORATION

PIPE TRENCH SECTION DETAIL

SCALE 1:15 METERS



G.I. PIPE CONNECTION DETAIL

PHILIPPINE PORTS AUTHORITY

PORT MANAGEMENT OFFICE – PALAWAN
PPA Administrative Building, Port Area, Bgy. Bagong Pag-asa, Puerto Princesa City, Palawan
Telefax. Nos. (048) 434-8026, E-mail address: pmopalawan@ppa.com.ph

PROJECT TITLE AND LOCATION:

REPAIR OF PORT WATER SUPPLY SYSTEM

PORT OF PUERTO PRINCESA, PALAWAN

DRAWN/PREPARED BY:

RELLY W. MADARCOS
SENIOR ENGINEER A

RECOMMENDING APPROVAL:

MARLON N. SENDAYDIEGO
ESD MANAGER

APPROVED BY:

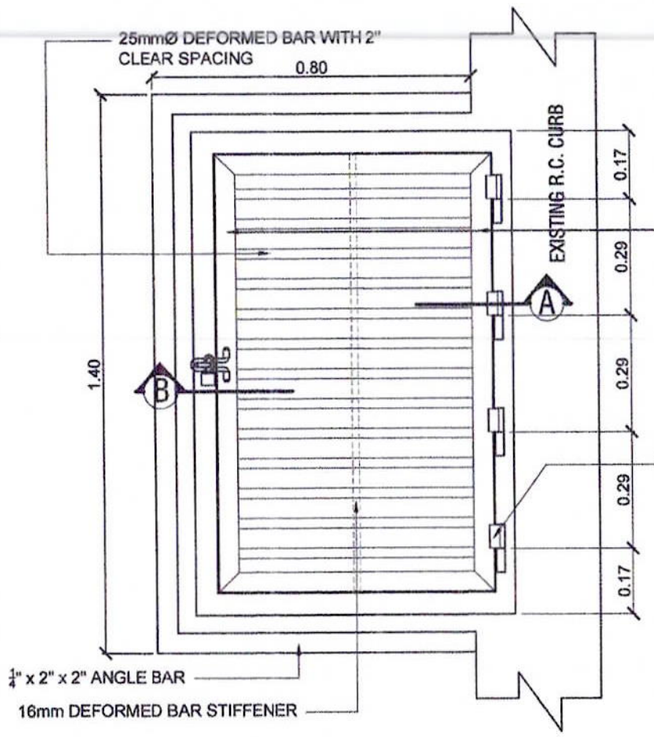
ELIZALDE M. ULSON
ACTING PORT MANAGER

SHEET CONTENTS

SHEET NO. 3 | 5

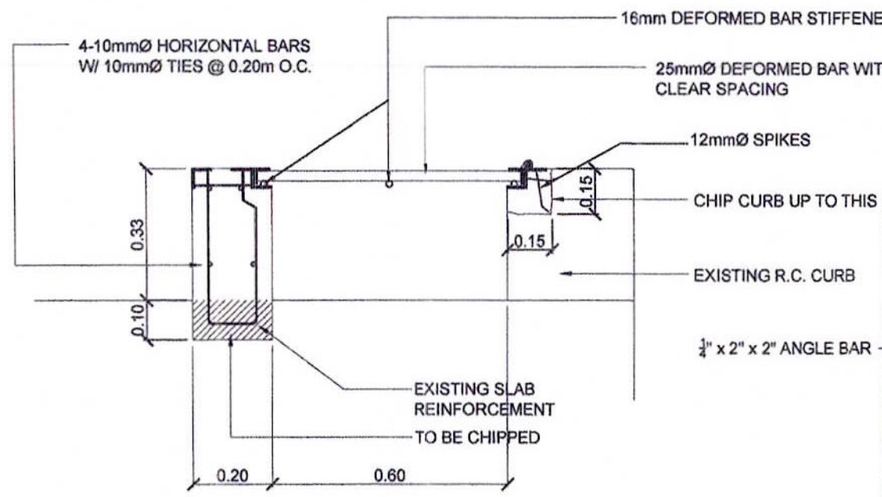
FILE NAME : PPC PORT WATER SUPPLY REPAIR

NOV. 2020

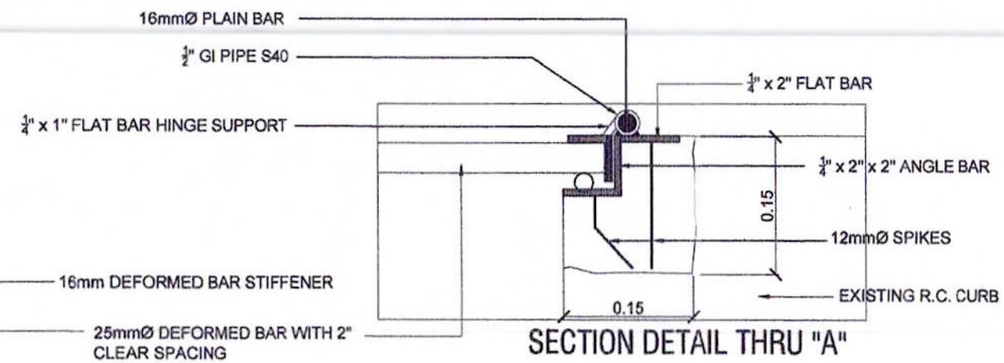


PLAN

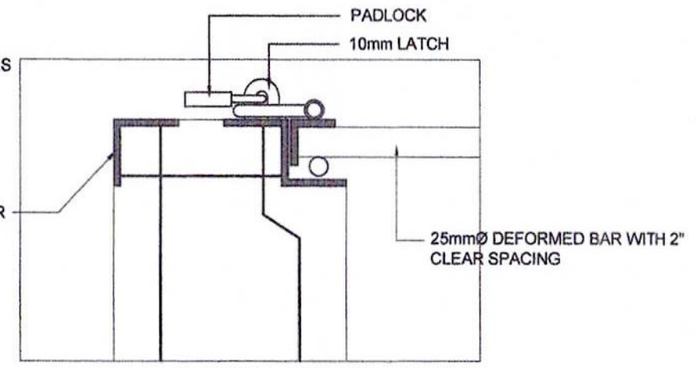
ALL STEEL MUST BE TREATED WITH RUST CONVERTER AND PAINTED WITH TWO COATINGS OF EPOXY PRIMER



SECTION



SECTION DETAIL THRU "A"

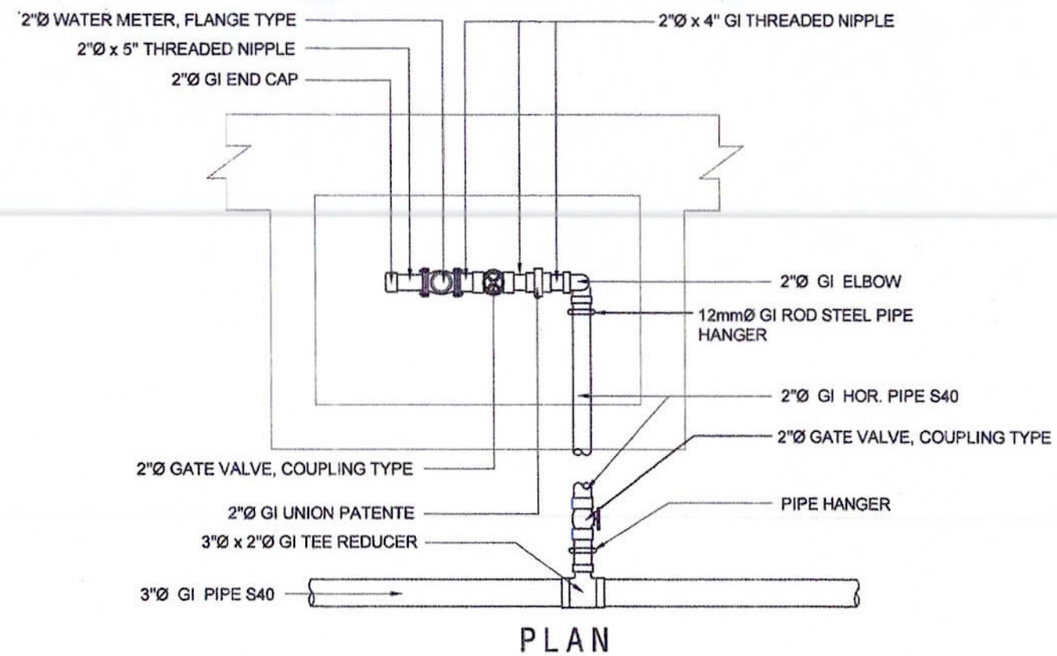


SECTION DETAIL THRU "B"

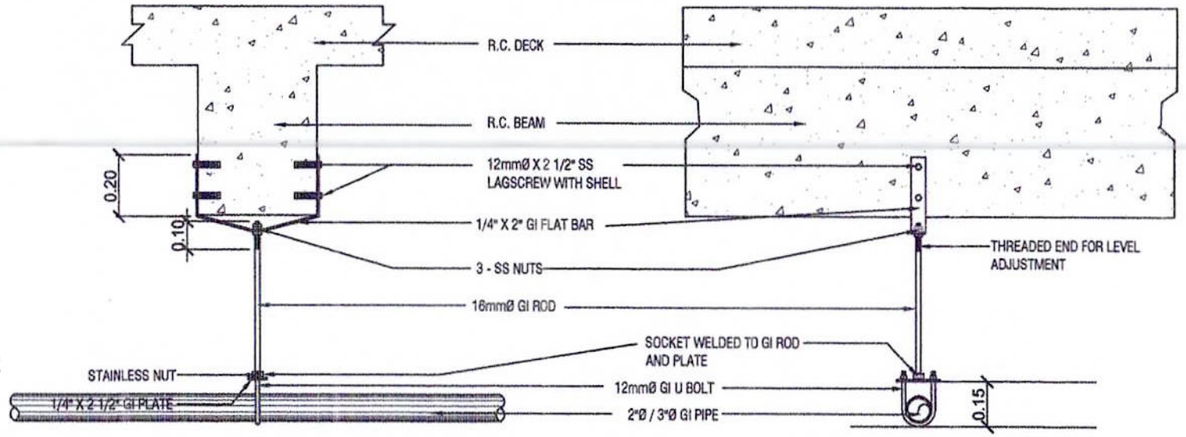
METER BOX DETAIL

SCALE 1:15 METERS

PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE – PALAWAN PPA Administrative Building, Port Area, Bgy. Sagong Pag-asa, Puerto Princesa City, Palawan Telefax. Nos. (048) 434-0058, Email address: pmopalawan@ppa.com.ph	PROJECT TITLE AND LOCATION: REPAIR OF PORT WATER SUPPLY SYSTEM PORT OF PUERTO PRINCESA, PALAWAN	DRAWN/PREPARED BY: RELLY W. MADARCOS SENIOR ENGINEER A	RECOMMENDING APPROVAL: MARLON N. SENDAYDIEGO ESD MANAGER	APPROVED BY: ELIZALDE M. ULSON ACTING PORT MANAGER	SHEET CONTENTS FILE NAME : PPC PORT WATER SUPPLY REPAIR	SHEET NO. 4 | 5 NOV. 2020

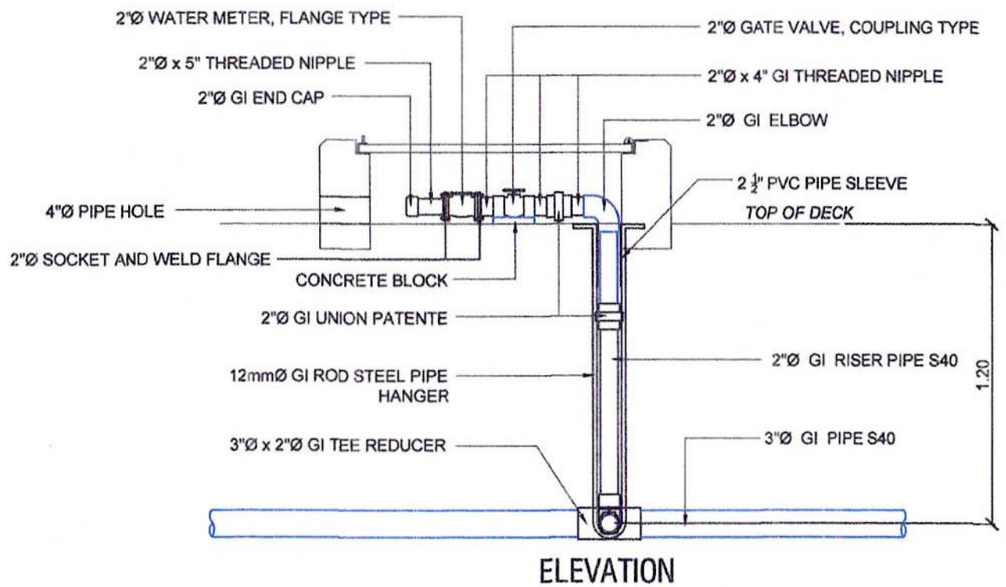


PLAN

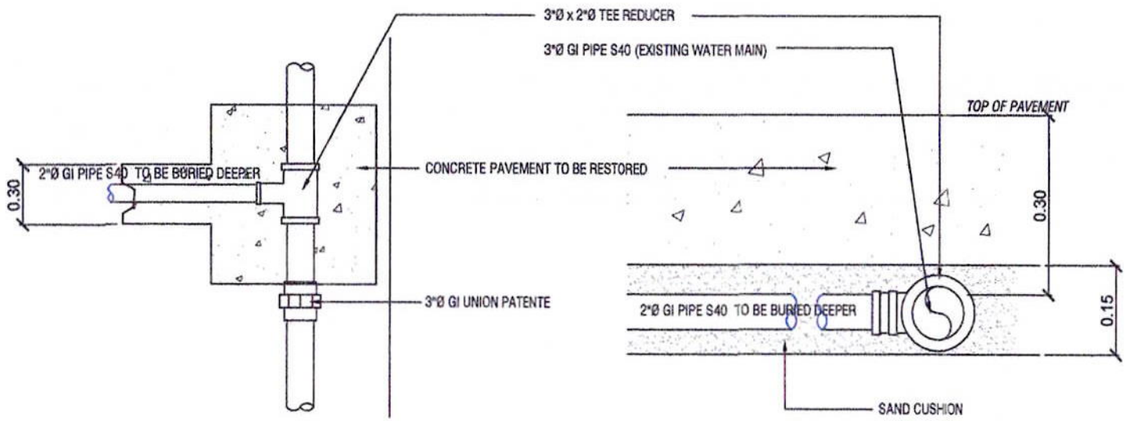


FABRICATED GI PIPE HANGER DETAIL (PROVIDE @ EVERY BEAM)

SCALE 1:20 METERS



ELEVATION



PLAN

WATER METER CONNECTION DETAIL

SCALE 1:20 METERS

PIPE CONNECTION DETAIL @ POINT 7

SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY

PORT MANAGEMENT OFFICE – PALAWAN
PPA Administrative Building, Port Area,
Bgy. Bagong Pag-asa, Puerto Princesa City, Palawan
Telefax. Nos. (048) 434-5026 Email address:
pmopalawan@ppa.com.ph

PROJECT TITLE AND LOCATION:	DRAWN/PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS	SHEET NO.
REPAIR OF PORT WATER SUPPLY SYSTEM PORT OF PUERTO PRINCESA, PALAWAN	RELLY W. MADARCOS SENIOR ENGINEER A	MARLON N. SENDAYDIEGO ESD MANAGER	ELIZALDE M. ULSON ACTING PORT MANAGER	FILE NAME : PPC PORT WATER SUPPLY REPAIR	5 | 5 NOV. 2020

Section VIII. Bill of Quantities

SUMMARY OF BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
I	DEMOLITION AND EXCAVATION OF PAVEMENT TO BE AFFECTED BY PIPE REPLACEMENT	sqm	55.20		
II	REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERGROUND)	l.m.	25.00		
III	BACKFILLING OF EXCAVATED TRENCH INCLUDING RESTORATION OF CHIPPED-OFF PAVEMENT	cum	13.00		
IV	REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERDECK)	l.m.	805.00		
V	REPAIR OF DEFECTIVE WATER METERS AND VALVES	units	13.00		
VI	PROVISION OF ADDITIONAL WATER METER AND VALVES	units	10.00		
VII	REPAIR OF EXISTING AND PROVISION OF ADDITIONAL METER BOXES AND VALVE BOXES	units	25.00		
VIII	PRESSURE TESTING AND COMMISSIONING OF NEW WATER SYSTEM	lot	1.00		
IX	SITE CLEARING AND DISPOSAL CONSTRUCTION DEBRIS AND STORAGE OF USABLE MATERIALS	lot	1.00		
				TOTAL BILL FOR THE CONTRACT	

Bidder's Authorized Representative

BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. I	**DEMOLITION AND EXCAVATION OF PAVEMENT TO BE AFFECTED BY PIPE REPLACEMENT**				
1.01	Chipping of Affected Concrete Pavement	sqm	55.20		
1.02	Trench Excavation and disposal of excavated and chipped materials	cum	13.80		
				TOTAL FOR BILL NO. I	

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. II	**REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERGROUND)**				
2.01	Removal old Pipes and Fittings (Underground)	l.m.	25.00		
2.02	Supply and Installation of New Pipings and Fittings (Underground)	l.m.	25.00		
				TOTAL FOR BILL NO. II	

Bidder's Authorized Representative

BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. III	**BACKFILLING OF EXCAVATED TRENCH INCLUDING RESTORATION OF CHIPPED-OFF PAVEMENT**				
3.01	Backfilling and Compaction including Provision of Gravel Bedding and Sandfill	cum	13.00		
3.02	Concrete Works on Affected Pavement including Reinforcement	cum	14.49		
				TOTAL FOR BILL NO. III	

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. IV	**REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERDECK)**				
4.01	Removal old Pipes and Fittings (Underdeck)	l.m.	430.00		
4.02	Supply and Installation of New Pipings and Fittings @ Underdeck	l.m.	805.00		
				TOTAL FOR BILL NO. IV	

Bidder's Authorized Representative

BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. V	**REPAIR OF DEFECTIVE WATER METERS AND VALVES**				
5.01	Replace Defective Meters and Valves	units	13.00		
				TOTAL FOR BILL NO. V	

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. VI	**PROVISION OF ADDITIONAL WATER METER AND VALVES**				
6.01	Supply and Installation of Additional Valves and Meters	units	10.00		
				TOTAL FOR BILL NO. VI	

Bidder's Authorized Representative

BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO.VII	**REPAIR OF EXISTING AND PROVISION OF ADDITIONAL METER BOXES AND VALVE BOXES**				
7.01	Demolition of Wall and and Chipping of Deck Slab	cum	4.97		
7.02	Restoration and Provision of Additional Meter Boxes and Gate Valve Boxes including Covers	cum	5.72		
				TOTAL FOR BILL NO. VII	

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. VIII	**PRESSURE TESTING AND COMMISSIONING OF NEW WATER SYSTEM**				
8.01	Testing of System for Leaks and Clogs	lot	1.00		
				TOTAL FOR BILL NO. VIII	

Bidder's Authorized Representative

BILL OF QUANTITIES

Repair of Port Water Supply System

Port of Puerto Princesa, Palawan

NO.	DESCRIPTION OF WORK	UNIT	QTY.	UNIT PRICE (Pesos)	AMOUNT (Pesos)
(1)	(2)	(3)	(4)	(5)	(4) x (5)
BILL NO. IX	**SITE CLEARING AND DISPOSAL CONSTRUCTION DEBRIS AND STORAGE OF USABLE MATERIALS**				
9.01	Clear, Clean and Dispose Construction Wastes and Debris including Storage of Usable Materials to Designated Area	lot	1.00		
				TOTAL FOR BILL NO. IX	

Bidder's Authorized Representative

BASIS OF PAYMENT FOR WORK ITEMS INCLUDED IN THE PROPOSAL

The work items included in the proposal including the basis of payment for each item are as follows:

The work items included in the proposal including the basis of payment for each item are as follows:

BILL NO. I –DEMOLITION AND EXCAVATION OF PAVEMENT TO BE AFFECTED BY PIPE REPLACEMENT

Item 1.01 Chipping of Affected Concrete Pavement (55.20 Sq.m.)

The quantity to be paid for shall be the actual area in square meters of affected concrete pavement to be chipped in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 1.02 Trench Excavation and Disposal of Excavated and Chipped Materials (13.80 Cu.m.)

The quantity to be paid for shall be the actual volume in cubic meters of trench excavation works and of disposal works of the excavated and chipped materials to be done in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. II – REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERGROUND)

Item 2.01 Removal / Uninstall old Pipes and Fittings (25.00 L.m.)

The quantity to be paid for shall be the actual length in linear meters of old pipes and fittings to be removed/uninstalled in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 2.02 Supply and Installation of New Pipings and Fittings (Underground) (25.00 L.m.)

The quantity to be paid for shall be the actual length in linear meters of new pipings and fittings (underground) to be supplied/installed in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. III – BACKFILLING OF EXCAVATED TRENCH INCLUDING RESTORATION OF CHIPPED-OFF PAVEMENT

Item 3.01 Backfilling and Compaction including Provision of Gravel Bedding and Sandfill (14.49 Cu.m.)

The quantity to be paid for shall be the actual volume in cubic meters of backfilling and compaction works to be done including gravel bedding and sandfill to be provided in

accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 3.02 Concrete Works on Affected Pavement including Reinforcement (11.59 Cu.m.)

The quantity to be paid for shall be the actual volume in cubic meters of concrete works to be done on affected pavement including reinforcement in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. IV – REPLACEMENT OF DAMAGED PIPINGS AND FITTINGS (UNDERDECK)

Item 4.01 Removal / Uninstall old Pipes and Fittings (430.00 L.m.)

The quantity to be paid for shall be the actual length in linear meters of old pipes and fittings to be removed/uninstalled in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 4.02 Supply and Installation of New Pipings and Fittings (Underground) (805.00 L.m.)

The quantity to be paid for shall be the actual length in linear meters of new pipings and fittings (underground) to be supplied/installed in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. V – REPLACEMENT OF DEFECTIVE WATER METERS AND VALVES

Item 5.01 Supply and Replace Defective Meters and Valves (13.00 Units)

The quantity to be paid for shall be the actual number in units of defective meters and valves to be supplied and replaced in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. VI – PROVISION OF ADDITIONAL WATER METER AND VALVES

Item 6.01 Supply and Installation of Additional Valves and Meters (10.00 Units)

The quantity to be paid for shall be the actual number in units of additional valves and meters to be supplied and installed in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. VII – REPLACEMENT OF EXISTING AND PROVISION OF ADDITIONAL METER BOXES AND VALVE BOXES

Item 7.01 Demolition and Disposal of Existing Meter Boxes and Valve Box including Chipping of Deck Slab (4.97 Cu.m.)

The quantity to be paid for shall be the actual volume in cubic meters of existing meter boxes and valve box to be demolished and disposed including chipping of deck slab in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 7.02 Provision of new Meter Boxes and Valve Box including Covers (25.00 Units)

The quantity to be paid for shall be the actual number in units of new meter boxes to be provided including covers in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. VIII – PRESSURE TESTING AND COMMISSIONING OF NEW WATER SYSTEM

Item 8.01 Testing of System for Leaks and Clogs (1.00 Lot)

The quantity to be paid for shall be the whole lot of testing of system to be done for leaks and clogs in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Item 8.02 Calibration of Water Meters (23.00 Units)

The quantity to be paid for shall be the actual number in units of water meters to be calibrated in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

BILL NO. IX – SITE CLEARING AND DISPOSAL CONSTRUCTION DEBRIS AND STORAGE OF USABLE MATERIALS

Item 9.01 Clear, Clean and Dispose Construction Wastes and Debris including Storage of Usable Materials to Designated Area (1.00 Lot)

The quantity to be paid for shall be the whole lot of clearing, cleaning and disposal works of construction wastes and debris including storage of usable materials to designated area in accordance with the specifications and as shown in the drawings and accepted by the Engineer. Payment shall include the cost of materials, labor, tools and other incidental expenses necessary to complete the work.

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- ☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- ☐ (h) Philippine Contractors Accreditation Board (PCAB) License;
  or
  Special PCAB License in case of Joint Ventures;
  and registration for the type and cost of the contract to be bid; **and**
- ☐ (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
  or
  Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
  - ☐ a. Organizational chart for the contract to be bid;
  - ☐ 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;
  - ☐ 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; **and**
- ☐ (k) Original duly signed Omnibus Sworn Statement (OSS);
  and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (n) 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;
  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

- (o) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; **and**
- (r) Cash Flow by Quarter.

Section X. Bidding Form