

**PHILIPPINE BIDDING DOCUMENTS**

**Construction of Pump House  
and Perimeter Fence for  
Pump Station 7 & 8  
(Re-bid)**

**BUENAVISTA  
WATER DISTRICT**

**BIDDING DOCUMENTS**

**October 2024**

**Sixth Edition**

# Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contracts, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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# **Glossary of Terms, Abbreviations, and Acronyms**

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

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

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

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

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

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

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.



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

### **Notes on the Invitation to Bid**

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.

## Invitation to Bid for

### Construction of Pump House for Pump Station 8 and Perimeter Fence for Pump Station 7 & 8

1. The **BUENAVISTA WATER DISTRICT**, through the *Corporate Budget* intends to apply the sum of *One Million Five Hundred Seven Thousand Two Hundred Ninety-three Pesos & 92/100* only being the Approved Budget for the Contract (ABC) to payments under the contract for 2024-01. Bids received more than the ABC shall be automatically rejected at bid opening.

Project	Description	Approved Budget for the Contract (ABC)
1	Construction of Pump House for Pump Station 8	Php. 658,244.90
2	Construction of Perimeter Fence for Pump Station 7 and 8.	849,049.02
	Total	Php. 1,507,293.92

2. The **BUENAVISTA WATER DISTRICT** now invites bids for the above Procurement Project. Completion of the Works is required to be **One hundred twenty calendar days (120)**. 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 **BUENAVISTA WATER DISTRICT** and inspect the Bidding Documents at the address given below from 8:00 a.m. to 5:00 p.m.
5. A complete set of Bidding Documents may be acquired by interested bidders on **October 22, 2024**, from given address and website/s below:

Rizal Avenue, Barangay 3,  
Buenavista, Agusan del Norte  
Cellphone Nos. 09989771038  
Email: bwd\_adn@yahoo.com  
Website: buenawater.gov.p

*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 (Php 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.*

6. The **Buenavista Water District** will hold a Pre-Bid Conference<sup>1</sup> on **October 28, 2024, 1:30 in the afternoon** at **Board Room, 2<sup>nd</sup> Floor, Buenavista Water District, Rizal Avenue, Barangay 3, Buenavista, Agusan del Norte** which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before **November 11, 2024, at 12:00 noon**. 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 16.
9. Bid opening shall be on **November 11, 2024, at 1:30 in the afternoon** at

Board Room, 2<sup>nd</sup> Floor, Buenavista Water District,  
Rizal Avenue, Barangay 3, Buenavista, Agusan del Norte.

Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. All bid documents must be properly marked and sealed.
11. The **Buenavista Water District** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

ENGR. EDMAR R. HARANAY  
*BAC Chairman*

BUENAVISTA WATER DISTRICT

Rizal Avenue, Barangay 3, Buenavista, Agusan del Norte  
Telephone No. 09989771038  
Email: bwd\_adn@yahoo.com  
Website: buenawater.gov.ph

13. You may visit the following websites:

For downloading of Bidding Documents: [buenawater.gov.ph](http://buenawater.gov.ph)

October 22, 2024

ENGR. EDMAR R. HARANAY  
*BAC Chairperson*

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<sup>1</sup> May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

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

### **Notes on the Instructions to Bidders**

This Section on Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contracts.

## 1. Scope of Bid

The Procuring Entity, *Buenavista Water District* invites Bids for the Construction of Pump House for Pump Station 8 and Perimeter Fence for Pump Station 7 and 8 with Project Identification Number 2024- 01.

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 FY 2024 in the amount of ***One Million five hundred seven thousand two hundred ninety-three pesos & 92/100 (1,507,293.00)***.

2.2. The source of funding is:

GOCC and GFIs, the proposed Corporate Operating Budget.

## 3. Bidding Requirements

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

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

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

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

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

## 5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA’s CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

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

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

## 6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

## 7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding, state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the

eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

7.2. *[If subcontracting is allowed during the contract implementation stage, state:]*  
The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

7.3. Subcontracting of any portion of the Project does not relieve the 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 at its physical address:

***October 28, 2024, at 1:30 in the afternoon at  
Board Room, 2<sup>nd</sup> Floor,  
Buenavista Water District,  
Rizal Avenue, Barangay 3,  
Buenavista, Agusan del Norte.***

As indicated in paragraph 6 of the **IB**.

## **9. Clarification and Amendment of Bidding Documents**

Prospective bidders may request 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 special PCAB License in the case of Joint Ventures, 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 **February 11, 2025**. 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 their 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 video conferencing, webcasting or other similar technologies are used, the 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 15 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**

### **Notes on the Bid Data Sheet (BDS)**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

# Bid Data Sheet

<b>ITB Clause</b>																												
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:  <i>Construction of Building and Perimeter Fence</i>																											
7.1	<i>Not Applicable</i>																											
10.3	No further instruction.																											
10.4	The key personnel must meet the required minimum years of experience set below:																											
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15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:																											

	<p>a. The amount of not less than <u>30,145.88</u>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit <i>[Insert two percent (2%) of ABC]</i>;</p> <p>b. The amount of not less than <u>75,364.70</u> if bid security is in Surety Bond <i>[Insert five percent (5%) of ABC]</i>.</p>
19.2	Partial bids are not allowed. The infrastructure project is packaged in a single lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	<p>Post-Qualification</p> <p>To facilitate post-qualification, the bidder at its option may submit in advance, i.e. on the deadline for submission and receipt of bids, the documents required in Section II. ITB 28.2, in a separate sealed envelope as follows:</p> <ol style="list-style-type: none"> <li>1. Latest income and business tax returns: Printed copies of the Electronically filed Income Tax / Business Tax Returns with copies of their respective Payment Confirmation Forms for the immediately preceding calendar / tax year from the authorized agent bank.</li> </ol> <p>Only tax returns filed and taxes paid through the BIR Electronic Filing and Payment System (EFPS) shall be accepted.</p> <ol style="list-style-type: none"> <li>2. PhilGEPS Certificate of Membership (Platinum), in case bidder opts to submit Class "A" Legal Documents during submission and opening of bids.</li> </ol>
21	<p>Signing of the Contract-Other Documents Forming Part of the Contract</p> <p>Additional contract documents relevant to the Project are required by the Procuring Entity and shall be submitted by the successful bidder within 10 calendar days from successful bidder's receipt of the Notice of Award (NOA), such as:</p> <ol style="list-style-type: none"> <li>1. Construction Schedule and S-curve;</li> <li>2. PERT/CPM 27</li> <li>3. Manpower schedule;</li> <li>4. Construction methods;</li> <li>5. Equipment utilization schedule; and</li> <li>6. Construction safety and health program approved by the Department of Labor and Employment</li> </ol>

## ***Section IV. General Conditions of Contract***

### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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 in 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***

### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements the provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# Special Conditions of Contract

GCC Clause							
2	<p><i>Completion of Works is within the One hundred twenty days (120 – 30 days for Plans and Permits and 90 days for Building Construction) upon receipt of the Notice to Proceed:</i></p> <p style="margin-left: 40px;"><i>a. Construction of Pump House for Pump Station 8</i> <i>b. Construction of Perimeter Fence for Pump Station 7 and 8.</i></p>						
4.1	<i>The Procuring Entity shall give possession of all parts of the Site to the Contractor after submission of the notarized Contract by the Contractor to the Procuring Entity and on or before date of receipt of the NTP by the Contractor.</i>						
6	The site investigation reports are: None						
7.2	Fifteen (15) years.						
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 Seven (7) days of delivery of the Notice of Award.						
11.2	<p>The amount to be withheld for late submission of an updated Program of Work is Twenty-Five Thousand Pesos.</p> <p>The period between Program of Work updates is every fifteen (15) days.</p>						
13	The amount of the advance payment shall not exceed 15% of the total contract price, which will only be released upon complete mobilization. (Deployment of workforce and partial delivery of construction materials at project site)						
14	<p><i>Progress Payments</i></p> <p><i>Request for Progress Payment for Work Accomplished:</i></p> <p style="text-align: center;"><i>Schedule of Payment</i></p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="padding-right: 20px;"><i>First Payment</i></td> <td><i>Upon 40% work accomplished</i></td> </tr> <tr> <td><i>Second Payment</i></td> <td><i>Upon 80% work accomplished</i></td> </tr> <tr> <td><i>Final Payment</i></td> <td><i>Upon 100% work accomplished</i></td> </tr> </table> <p><i>Materials and equipment delivered on the site but not completely put in place shall not be included for payment.</i></p>	<i>First Payment</i>	<i>Upon 40% work accomplished</i>	<i>Second Payment</i>	<i>Upon 80% work accomplished</i>	<i>Final Payment</i>	<i>Upon 100% work accomplished</i>
<i>First Payment</i>	<i>Upon 40% work accomplished</i>						
<i>Second Payment</i>	<i>Upon 80% work accomplished</i>						
<i>Final Payment</i>	<i>Upon 100% work accomplished</i>						
15.1	<p>The date by which operating, and maintenance manuals are required is upon acceptance of the project.</p> <p>The date by which “as built” drawings are required is prior to the release of certificate of completion.</p>						
15.2	<p>No amount will be withheld for failing to submit “as built drawings and/or operating and maintenance manuals and warranty certificate of all equipment within the date required.</p> <p>However, such documents will form part of the requirements in processing the final payment.</p>						

## Section VI. Specifications

### Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

#### **Sample Clause: Equivalency of Standards and Codes**

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other

authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.

# Minimum Performance Standards and Parameters (MPSP) Including DPWH Blue Book

## 1.0 PURPOSE

The purpose of the Minimum Performance Standards and Parameters (MPSP), among others, is to:

- 1.1 Establish the MPSP that the Contractor must comply with under the Contract Agreement with the **Buenavista Water District** for the **Construction of Pump Station No. 8** and **Construction of Perimeter Fence for Pump Station 7 and 8** (hereinafter referred to as “the Project”), using the Implementing Rules and Regulations, Republic Act No. 9184 (IRR/ R.A No. 9184) especially Annex “A” Detailed Engineering for the Procurement of Infrastructure Projects;
- 1.2 Ensure compliance in adopting Architectural, Engineering, and other Technical Guidelines and define performance standards for the Detailed Engineering Design (DED) of the Project; and
- 1.3 Provide a Quantifiable and verifiable basis for physical progress as a basis for Claims for Payments in accordance to standards accounting and auditing rules and regulations of the Procuring Entity.

## 2.0 SCOPE OF THE PROJECT

2.1 Construction of Pump Station No. 6 (Table 2.1):

PROJECT	DESCRIPTION	APPROVED BUDGET FOR THE CONTRACT (ABC)
1	Construction of Pump House for Pump Station 8	Php. 658,244.90
2	Construction of Perimeter Fence for Pump Station 7 and 8.	849,049.02
<b>GRAND TOTAL</b>		<b>1,507.293.92</b>

2.2 Project Components. The Bid Documents include the following components (Table 2.2):

**Table 2.2 Project Components**

COMPONENTS	PARTICULARS
Architectural and Engineering Design	Complete plans, drawings, specifications, BOQ and cost estimation, construction management, progress reports and claims for payments and completion reports.
Site Civil Works	Site drainage/ flood control, site stabilization, sanitary works forming part of the civil works, and pavement and road right-of-way (RROW) improvements as applicable/needed, including pavement markings, etc., with pertinent plans and

	designs prepared by a duly-Registered and Licensed Civil Engineer.
Architectural Works	All masonry, finishing, acoustic, lighting, moisture protection/thermal, glazing, wood/plastics, fenestration (doors & windows), with pertinent plans and designs prepared by a duly-registered and Licensed Architect.
Structural Works	Foundation (Progressive Type), superstructure and roof support systems, etc. with the pertinent plans and designs prepared by a duly-registered and Licensed Civil Engineer, who may specialize in structural design practice.
Electrical Works	All electrical systems and works with pertinent plans and design prepared by a duly-registered and Licensed Professional Electrical Engineer (PPE)
Plumbing Works	Water Sewerage, sanitary and disposal systems with pertinent plans and designs prepared by a duly-registered and Licensed Master Plumber.
Sanitary Works	Water Sewerage, sanitary and disposal systems with pertinent plans and designs prepared by a duly-registered and Licensed Sanitary Engineer.

### 3.0 SCOPE OF CONTRACT AGREEMENT

- 3.1 **Preparation of the Complete and Detailed Plans for the Project.** The contractor shall prepare and submit to the Buenavista Water District's Engineering Team the prepared complete set and detailed plans with engineer's seal and signature of the plans.
- 3.2 **Approval of the complete set and detailed plan.** After the Procuring Entity had received and signed the complete set and detailed plan, the contractor shall then prepare the necessary documents for the needed permits and licenses for the project.
- 3.3 **Scope of Construction. The contractor shall fully undertake the Construction Works for all project components.**
  - 3.3.1 The contractor shall implement at the construction of the Project in accordance with its Bid Proposal and any modifications which may be agreed upon during the discussion on Engineering Designs as officially recorded in the Minutes of Discussion with Buenavista Water District and final detailed Engineering Designs approved by Buenavista Water District.
  - 3.3.2 The contractor shall undertake the construction of the Project in accordance with this Section VI. Minimum Performance Standards and Parameters (MPSP).

The contractor shall undertake the following activities in accordance with the Bidding Documents and its Bid Proposal which form an integral part of the Contract Agreement.

### 4.0 DESIGN STANDARDS AND SPECIFICATIONS



The Contractor shall adopt the conceptual design made by the Buenavista Water District Technical Working Group (TWG) and shall observe the following design standards.

#### **4.1 Architectural Design Parameters**

**4.1.1 Codes and Standards.** The Architectural Works shall be in accordance with the following Laws, Codes, and Standards.

##### **A. Laws and Codes**

A.1: National Building Code of the Philippines and its Latest and Amended IRR.

A.2: RA 9266 or Architecture Law and its Latest and Amended IRR.

A.3: RA 4226 or Hospital Licensing Act and its Latest and Amended IRR.

A.4: BP 344 or Accessibility Law and its Latest and Amended IRR.

A.5: RA 9514 New Fire Code of the Philippines.

A.6: Existing Local Codes and Ordinances.

A.7: And other Laws that applies to the Projects Standards.

#### **4.1.2 General Drawing Guidelines**

- a. All drawings shall be computer-drafted. Drawings shall be submitted both in printed and electronic copies.
- b. Keep the same orientation for all plans. The orientation of the architectural plans shall be consistent with all the engineering plans.
- c. Detailed plans shall have a scale not smaller than 1:50 meters.
- d. Spot detailed plans, elevations, and sections shall have a scale not smaller than 1:50 meters.

#### **4.1.3 Floor Plans**

- a. All plans shall be 1:100 meters. The same scale shall be used for the rest of the architectural, structural, sanitary, plumbing, electrical and mechanical plans, except for each trade's site plan, detailed plans and spot details.
- b. Section line callouts on the floor plans shall be consistent with the section drawing.
- c. Floor plans shall be indicated with boxed room callout numbers, including the callout for floor finishes and wall finishes.
- d. Door callouts shall be circles with the proper numbering, e.g. D-01.
- e. Window callouts shall be hexagons with the proper numbering, e.g. W-01.

#### **4.1.4 Elevations and Sections**

- a. Finish floor lines shall be consistent in all the elevations, sections and structural plans and details.

- b. All dimensions and finishing materials shall be indicated in all elevation and section and must be consistent with the specification.

#### **4.1.5 Reflected Ceiling Plans**

- a. Reflected ceiling plans shall be indicated with boxed room callout numbers, including the callout for ceiling finishes and lighting fixtures.
- b. Ceiling height relative and in reference to the finish floor line shall be indicated in the reflected ceiling plans in each room with boxed dimensions. This is to ensure that the ceiling heights of all rooms are established whether or not reflected in the sections.

#### **4.1.6 Doors and Windows**

- a. Door and window schedules shall indicate the type of door or window, the number of sets, the location/s of the door or window, the materials and accessories included and other special specifications, e.g. color or finish.

### **4.2.1 Building Architectural Works**

#### **4.2.1.1 Floor Plans**

- a. The structural, sanitary, plumbing, and electrical designs are required to refer to the architectural plans and specifications in case of discrepancies. If an engineering design will have any possible conflict or interference on the architectural design, the latter may be adjusted provided that the aesthetic value will not be compromised.
- b. The architectural and engineering plans shall be consistent all throughout in terms of dimensions and locations of columns, beams, walls, roof line, conduits, ducts, pipes, and fixtures, among others. Column and beam grid lines shall also be consistent in all the architectural and engineering plans.

#### **4.2.2 Walls**

- a. Layout and work on wall and floor tiles must be aligned, plumb, leveled, and squared.
- b. Tile color and design should be approved first before installation.

#### **4.2.3 Floors**

- a. Layout and work on wall and floor tiles must be aligned, plumb, leveled, and squared.
- b. Tile color, size and design shall be approved first before installation.

**4.2.4 Ceiling Works.** The following room shall have a minimum ceiling height.

#### **4.2.5 Doors and Windows**

- a. Minor rooms that do not require security should at least have wood flush doors.
- b. Aluminum frames of glass doors and windows shall be “analog brown” finish.
- c. Door finish and color shall be approved first before application.

#### **4.2.6 Fixtures and Accessories**

- a. Electrical switches and outlets shall be installed plumb and level.

#### **4.2.7 Painting**

- a. Ceiling shall be in paint finish.
- b. Painted interior wall shall be at least in semi-gloss paint finish for ordinary rooms, e.g. offices, unless specified to a higher type of paint.
- c. Paint color and shade shall be approved first before application.

#### **4.2.8 Summary of Materials**

- a. Wet areas, e.g. toilets, and kitchen shall use non-skid/non-slip vitrified ceramic floor tiles.
- b. Ramps and stairs shall use the materials as specified in the plan.

### **4.3 DESIGN PARAMETERS STRUCTURAL/CIVIL WORKS**

**4.3.1 Codes and Standards.** The Civil/Structural Design shall be in accordance with the following Codes and Standards.

#### **A. Codes**

- A.1: National Structural Code of the Philippines (NSCP) 2015, Volume I.
- A.2: National Building Code of the Philippines.
- A.3: Accessibility Law.
- A.4: Local Codes and Ordinances.

#### **B. Standard**

- B.1: American Concrete Institute (ACI).
- B.2: American Society for Testing Materials (ASTM).
- B.3: American Welding Society.
- B.4: American Institute of Steel Construction (AISC).

#### **C. Structural Design Criteria**

- C.1: The site shall be soil investigated to determine the actual soil bearing capacity.
- C.2: In summary, site suitability, conformity with structural code, shape and form subject to structural evaluation and monitoring shall be in effect.

### **4.4.1 SANITARY/PLUMBING DESIGN PARAMETERS**

**4.4.1 Codes and Standards.** The Sanitary/Plumbing Design shall be in accordance with the following Codes and Standards.

**A. Codes**

- A.1: National Building Code of the Philippines.
- A.2: Fire Code of the Philippines.
- A.3: National Plumbing Code of the Philippines (NPCP)
- A.4: Sanitation Code of the Philippines.
- A.5: Existing Local Code and Ordinances.

**B. Standards**

- B.1: National Water Resources Board (NWRB)
- B.2: National Plumbers Association of the Philippines (NAMPA)
- B.3: Philippine Society of Sanitary Engineers, Inc. (PSSE)

**4.4.2 Building Facilities Sanitary/Plumbing System**

- a. **Waterline System.** Provide complete water system. Complete with Pipes & Fittings and necessary accessories.

**4.4.3 Summary of Materials**

- a. SDR 11 HDPE pipe brass faucets for buildings water line.
- b. Plumbing fixtures including Trims, Fittings and accessories; (BPS Certified)
  - b.1: Water Closet-Tank Button-Type flush
  - b.2: Lavatory-(Pedestral/Counter Type)/semi-pedestral with faucet.

**4.5 ELECTRICAL DESIGN PARAMETERS**

**4.5.1 Codes and Standards.** The Electrical System Design Parameters shall be in accordance with the following Codes and Standards.

**A. Codes**

- A.1: Latest Edition of Philippine Electrical Code.
- A.2: National Electrical Code.
- A.3: New Fire Code of the Philippines.
- A.4: National Building Code of the Philippines and its New IRR
- A.5: Existing Local Codes and Ordinances

**B. Standards**

- B.1: Bureau of Product Standards (BPS)
- B.2: Underwriters Laboratory (UL)
- B.3: National Fire Protection Association
- B.4: International Electro-Mechanical Commission (IEC)
- B.5: Illumination Engineering Society (IES)
- B.6: National Electrical Manufacturer's Association (NEMA)

**4.5.2 Site Works.** Based on the proposed project plan, complete Electrical Layout shall be provided with the following.

- a. Panel Board Layout
- b. Electrical Devices
- c. Service Conductors and Conduit Layout
- d. Grounding System

#### 4.5.3 Building Facilities Electrical System

- a. Lighting System. Provide and install adequate normal branch circuits for Lighting System to all areas using the standard Lighting Design Analysis. Utilize the standard illumination requirements per area of concern using the preferred particular type of luminaries.
- b. Power System. Provide and install adequate normal branch circuits for the Power System.
- c. Provide Details of the following:
  - e1. Lighting Fixtures
  - e2. Panel board and Circuit Breakers
  - e3. Electrical Equipment
- d. Summary of Materials
- f. General Lighting. Fixtures type shall be as indicated on the Lighting Layout Plan.
  - f1. Lighting requirements shall be as approved by the implementing agency.
  - f2. **Wiring Devices:** Wiring devices shall be non-automatic control devices, the contract is guaranteed by the pressure of the special spiral springs.
    - f2.1 Switches shall be of 15A, 250V or 300V except as otherwise noted and approved. Terminals shall be screw-type or quick-connected type.
    - f2.2 General use receptacle shall be 15A, 240V grounding type unless otherwise indicated on the drawings.
  - f3. **Panel boards and Circuit Breakers:** The Panel Board and Circuit Breakers shall be equipped with molded-case circuit breakers and shall be the type as indicated in the panel board schedule and details.
    - f3.1 Provide molded-case circuit breakers of frame, trip rating and interrupting capacity as shown on the drawings. The circuit breakers shall be quick break, trip-indicating and shall have common trip on all multiple breakers with internal trip mechanism.
    - f3.2 All current-carrying parts of the panel boards shall be plated. Provide solid neutral (S/N) assembly when required. The assembly shall be isolated from the enclosure.

- f4. **Electrical Conduits, Boxes and Fittings:** All conduits, boxes and fittings shall be standard rigid steel, zinc coated or galvanized.
  - f4.1 Rigid Steel Conduits (RSC)
  - f4.2 Rigid Metal Conduits (RMC)
  - f4.3 Intermediate Metal Conduits (IMC)
  - f4.4 Electrical Metallic Tubing (EMT)
  - f4.5 Unplasticized Polyvinyl Chloride (uPVC) if required shall be schedule 40.
  
- f5. **Conductors:** Wires and cables shall be of the approval type and unless specified or indicated otherwise.
  - f5.1 The conductors used in wiring system shall be of soft-annealed copper having a conductivity of not less than 98% of that of pure copper and insulated for 60 degree temperatures.
  - f5.2 All conduits of convenience outlets and wire ways for lighting branch circuit homeruns shall be wired with a minimum 3.5 mm square in size.
  
- f6. **Fire Detection and Alarm System:**
  - f6.1 The Fire Detection and Alarm System shall be zonal conventional fire detection.
  - f6.2 Signaling system shall occur by manual pull station and fire detection shall be by automatic smoke or heat detector, sprinkler flow switch and tamper switch.

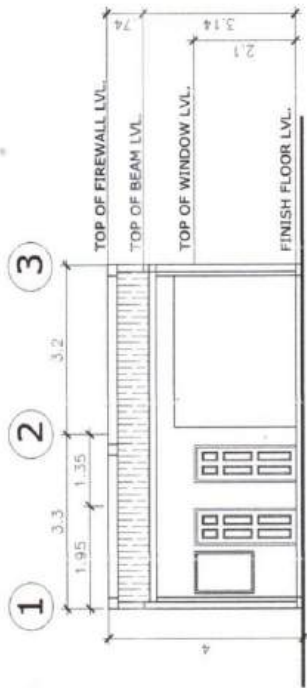
## 5.0 INSTALLATION AND WORKMANSHIP

- 5.1 The Key Personnel of the Contractor shall be specialists highly skilled in their respective trades, performing all labor according to first-class standards. The Contractor shall assign a full time Project Engineer/Architect/Foreman at the jobsite during the construction of the project.
- 5.2 All works to be subcontracted shall be declared by the Contractor in its Technical Proposal and shall be approved by Buenavista Water District.
- 5.3 The Contractor shall rectify, resubmit, and review any errors, omissions, inconsistencies, inadequacies or failure which do not comply with the requirements at its own cost. If the Contractor wishes to modify any design or document which has been previously submitted, reviewed, and approved, the Contractor shall notify the Buenavista Water District within a reasonable period of time and shall shoulder the cost of such changes.

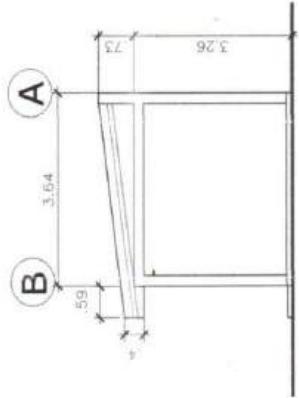
# Section VII. Drawings

## 1. PROPOSED PUMP HOUSE NUMBER 8

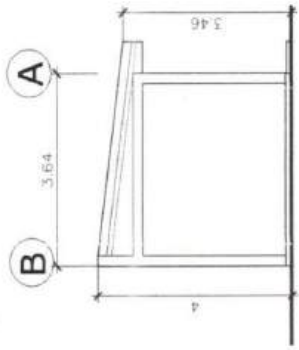
TABLE OF CONTENTS		REPUBLIC OF THE PHILIPPINES OFFICE OF THE DISTRICT ENGINEER BUENAVISTA, AGUSAN DEL NORTE	
SPT. NO.	DESCRIPTION	APPROVED :	SHEET NO.
1/6	PROSPECTIVE AND VIGNETTE PLAN VICINITY MAP		1 / 7
2/6	ARCHITECTURAL DRAWINGS		
3/6	STRUCTURAL DRAWINGS		
4/6	STRUCTURAL DRAWINGS		
5/6	ELECTRICAL DRAWINGS		
6/6	ELECTRICAL DRAWINGS		
6/6	PLUMBING DRAWINGS		
<p><b>PERSPECTIVE</b></p>		<p><b>SITE DEVELOPMENT PLAN</b> SCALE: 1:100</p>	<p><b>VICINITY MAP</b></p>
<p>REPUBLIC OF THE PHILIPPINES BUENAVISTA WATER DISTRICT BUENAVISTA, AGUSAN DEL NORTE</p>		<p>PROJECT :</p> <p><b>PROPOSED ONE-STORY PUMP HOUSE BLDG.</b></p> <p>LOCATION : PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE</p>	<p>RECOMMENDATION APPROVAL :</p> <p> <b>ELISA M. IBAY</b> GENERAL MANAGER</p>
<p>LEAD :</p> <p> <b>DANIEL S. RODRIGUEZ</b></p>		<p>APPROVED :</p> <p> <b>DIR. FLORIDA A. HORDISTA</b> BOO CHAIRMAN</p>	<p>CONTENT :</p> <p>ARCHITECTURAL DRAWINGS</p>
<p>CHECKED :</p> <p> <b>ENGR. BENJAMIN S. CHAN JR.</b> REGISTERED CIVIL ENGINEER</p>			
<p>LAND USE &amp; ZONING</p>			
<p>LINE &amp; GRADE</p>			
<p>ARCHITECTURAL</p>			
<p>STRUCTURAL</p>			
<p>SECTION</p>			
<p>ELECTRICAL</p>			
<p>MECHANICAL</p>			
<p>FIRE SAFETY</p>			
<p>REGULATIONS APPROVAL</p>			
<p>OTHER</p>			



**FRONT ELEVATION**  
SCALE: 1:100



**LEFT SIDE ELEVATION**  
SCALE: 1:100



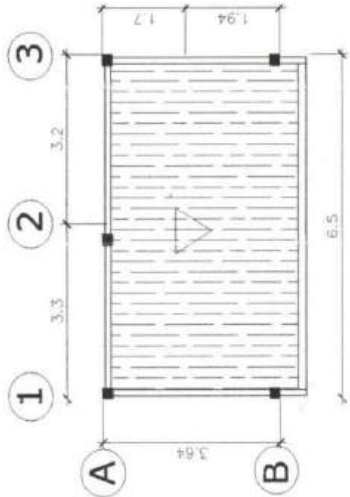
**RIGHT SIDE ELEVATION**  
SCALE: 1:100



**FLOOR PLAN**  
SCALE: 1:100



**REAR ELEVATION**  
SCALE: 1:100



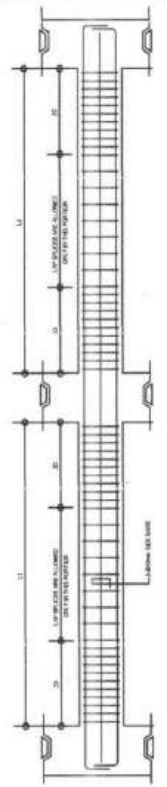
**ROOF PLAN**  
SCALE: 1:100

PROJECT: <b>REPUBLIC OF THE PHILIPPINES</b> <b>BUENAVISTA WATER DISTRICT</b> BUENAVISTA, AGUSAN DEL NORTE	PROPOSED ONE-STORY PUMP HOUSE BLDG. LOCATION : PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE		RECOMMENDATION APPROVAL:  <b>ELISA M. MABAYO</b> GENERAL MANAGER	APPROVED:  <b>DIR. FLORINDA A. HORDISTA</b> BOD CHAIRMAN	CONTENT: ARCHITECTURAL DRAWINGS	SHEET NO. <b>2 / 7</b>
			DAD:  <b>ENGR. SALVADOR S. CHAN JR.</b> CHECKED: <b>ENGR. BERNARD B. BURHAG</b>			

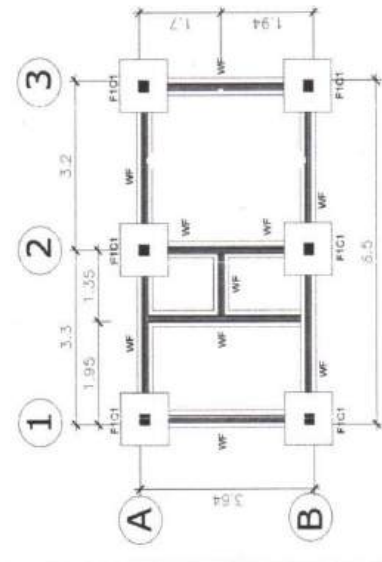


### B E A M S C H E D U L E

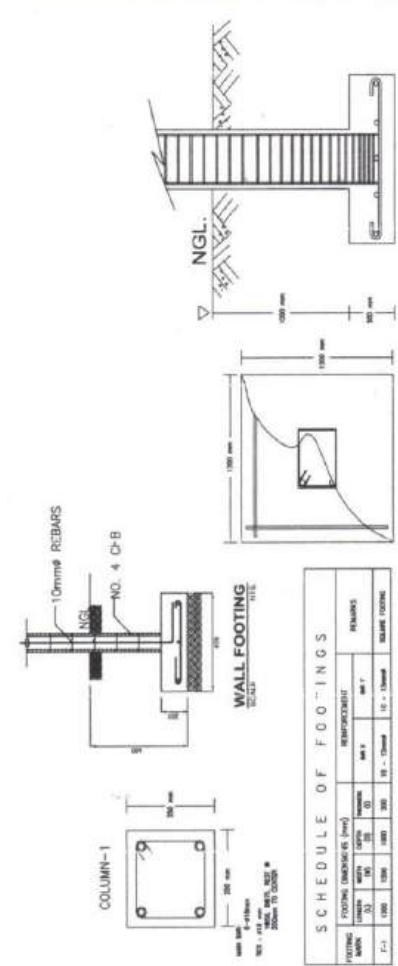
FLOOR TO ROOF LEVEL	BEAM MARK	DIMENSIONS (mm)		STEEL REINFORCEMENTS						STIRRUPS (Circular shape section) 10G50, 10G100, 10G150, 10G200
		a	b	REBAR (mm #)	LEFT	MID SPAN	RIGHT	TOP	BOTTOM	
BM1	200	300	#12mm	2	2	2	2	2	2	2



**TYPICAL BEAM DETAIL**  
SCALE: N.T.S.

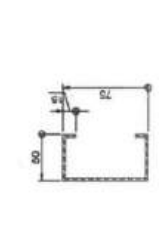


**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

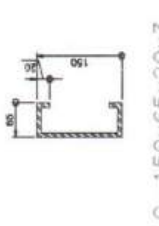


**COLUMN & FOOTING DETAIL**  
SCALE: N.T.S.

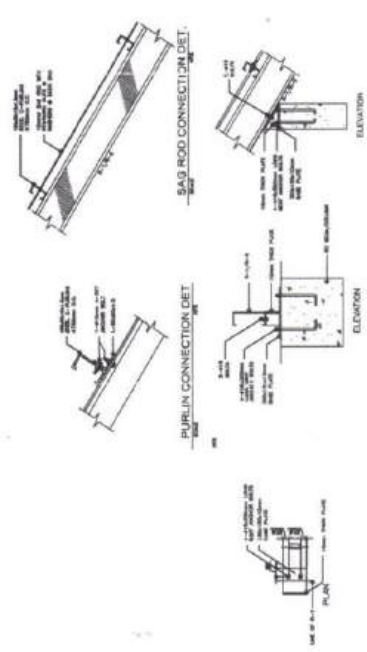
PROJECT: <b>REPUBLIC OF THE PHILIPPINES BUENAVISTA WATER DISTRICT BUENAVISTA, AGUJAN DEL NORTE</b>	LOAD: <b>DANIEL S. BORBITO</b> CHECKED:	RECOMMENDATION APPROVAL: <b>ELISA M. MABAY</b> GENERAL MANAGER	APPROVED: <b>DIR. FLORENDO A. HORDISTA</b> BOB CHAIRMAN	CONTENT: <b>STRUCTURAL DRAWINGS</b>	SHEET NO. <b>3 / 7</b>
	LOCATION: <b>PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUJAN DEL NORTE</b>	CHECKED: <b>ENGR. SAMUEL S. CHAN JR.</b>			



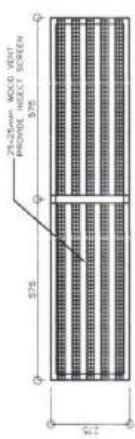
LC-75x50x15x1.2  
DETAIL OF PURLINS  
SCALE: NTS



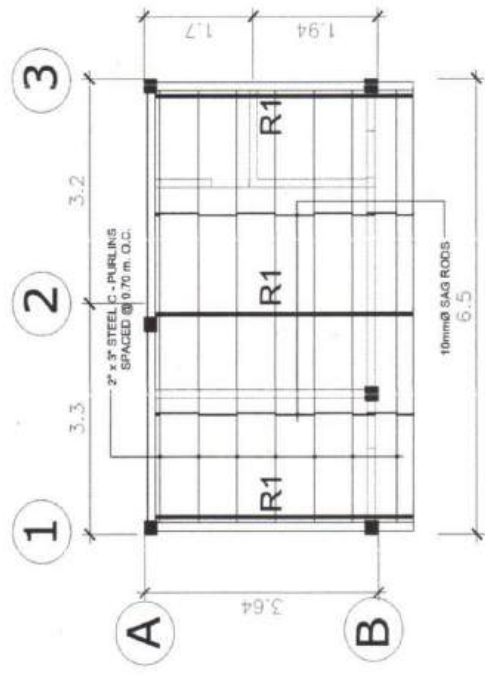
LC-150x65x20x3  
R-1  
DETAIL OF RAFTER-1  
SCALE: NTS



TYPICAL RAFTER ANCHORAGE DETAIL  
SCALE: NTS



PLAN  
TYP. CLG. VENT PLAN DETAIL  
SCALE: NTS

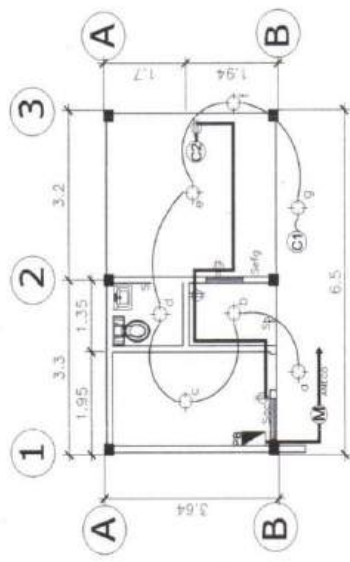


FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

PROJECT: <b>PROPOSED ONE-STOREY PUMP HOUSE BLDG.</b> LOCATION: PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE	RECOMMENDATION APPROVAL:  <b>ELISA B. HORDISTA</b> GENERAL MANAGER	APPROVED:  <b>DIR. FLORIDA A. HORDISTA</b> BOB CHAIRMAN	CONTENT: STRUCTURAL DRAWINGS	SHEET NO. <b>417</b>
	LEAD:  <b>DIANNE B. BERNAL</b> ENR. SAL. CHAN JR. ENR. SAL. CHAN JR.			

## SCHEDULE OF LOAD :

CKT. NO.	DESCRIPTION	NO. OF OUTLET	VOLTS	UNIT VA	UNIT AMPS	TOTAL VA	OCPD	WIRE SIZE	CONDUIT
C-0	MAIN CB	-	220	-	-	-	40A	8.0mm <sup>2</sup> TW	13mmØ
C-1	LIGHTING OUTLET	7	220	40	1.27	240	15A	8.0mm <sup>2</sup> TW	13mmØ
C-2	CONVENIENCE OUTLET	4	220	180	0.82	720	20A	8.0mm <sup>2</sup> TW	13mmØ
C-3	SPARE								



**POWER & LIGHTING LAY-OUT**  
SCALE: 1/8"=1'-0"

### COMPUTATION :

FEEDER WIRE SIZE :

$$I = (0.82) 1.25 + 3(0.82) + 7(0.18)$$

$$= 1.025 + 2.46 + 1.26$$

$$I = 4.74 \text{ AMPS}$$

USE 8.0mm<sup>2</sup> TW, CUPPER WIRE STRANDED

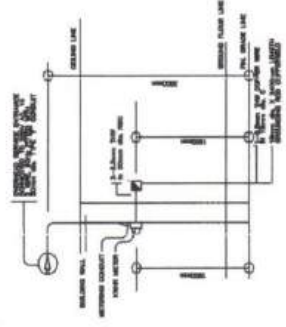
FEEDER CIRCUIT BREAKER PROTECTION:

$$I = (0.82) 2 + 3(0.82) + 6(0.18)$$

$$= 1.64 + 2.46 + 1.08$$

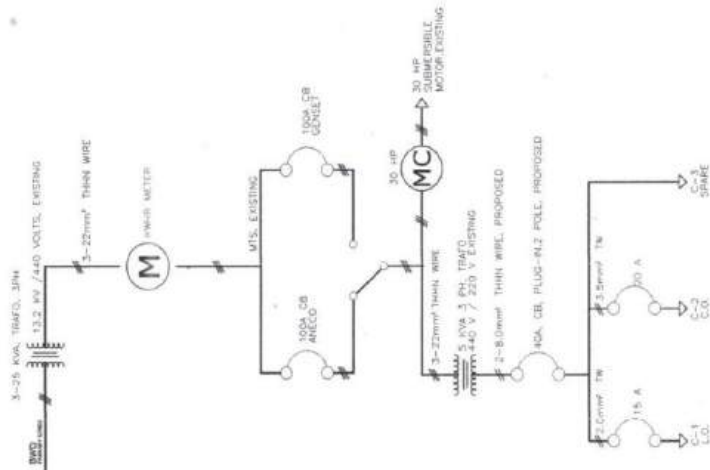
$$I = 5.18 \text{ AMPS}$$

USE 40 AMPS CIRCUIT BREAKER, 2 POLE PLUG-IN



**ELECTRICAL RISER DIAGRAM**

PROJECT : <b>REPUBLIC OF THE PHILIPPINES</b> <b>BUENAVISTA WATER DISTRICT</b> BUENAVISTA, AGUSAN DEL NORTE	PROPOSED ONE-STOREY PUMP HOUSE BLDG. LOCATION : FS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE	CHECKED BY : ENGR. <b>WALTER S. CHAN, JR.</b>	RECOMMENDATION APPROVAL : ELISA <b>ALIBAY</b> GENERAL MANAGER	APPROVED : DIR. <b>FLORENCE A. HORDISTA</b> BOO CHAIRMAN	SHEET NO. <b>5 / 7</b>
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**SINGLE LINE DIAGRAM**

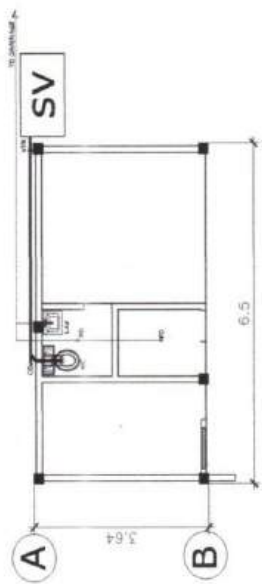
**GENERAL NOTES**

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :
  - a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
  - b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
  - c. BRANCH CKT., & AUXILIARY - SCH. 40
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN, THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.0mm AND INSULATED FOR 800 VOLTS. SMALLEST RACEWAY SHALL BE 15mm TRADE/NOMINAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
  - a. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
  - b. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
  - c. PANELBOARD - 1.80 M ABOVE FINISH FLOOR

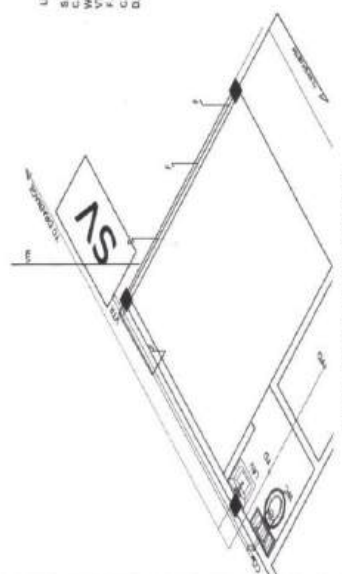
**LEGEND**

SYMBOL	DESCRIPTION
□	- CEILING LIGHT OUTLET
(S)	- ONE GANG DEVICE SWITCH
(S)	- TWO-GANG DEVICE SWITCH
—	- RACEWAY CONDUIT CONCEALED UNDER FLOOR
■	- PANELBOARD
⊕	- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 V WITH MODERN PLATE COVER
⊕	- HOMERUN DIRECT TO PANEL BOARD
⊕	- CIRCUIT BREAKER, RATING AS INDICATED
⊕	- ELECTRIC SERVICE METER
⊕	- SERVICE ENTRANCE

PROJECT : <b>REPUBLIC OF THE PHILIPPINES          BUENAVISTA WATER DISTRICT</b> BUENAVISTA, AGUSAN DEL NORTE	PROJECT : <b>PROPOSED ONE-STOREY PUMP HOUSE BLDG.</b> LOCATION : PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE	CAD :  DARREL S. BORRAO CHECKED BY :  ENGR. SALVADOR S. CHAN JR. <small>REGISTERED ELECTRICAL ENGINEER</small>	RECOMMENDATION APPROVAL :  ELIS B. ALIBAY GENERAL MANAGER	APPROVED :  DIR. FLORIDA A. HORDISTA BOO CHAIRMAN	CONTENT : ELECTRICAL DRAWINGS	SHEET NO. <b>6 / 7</b>
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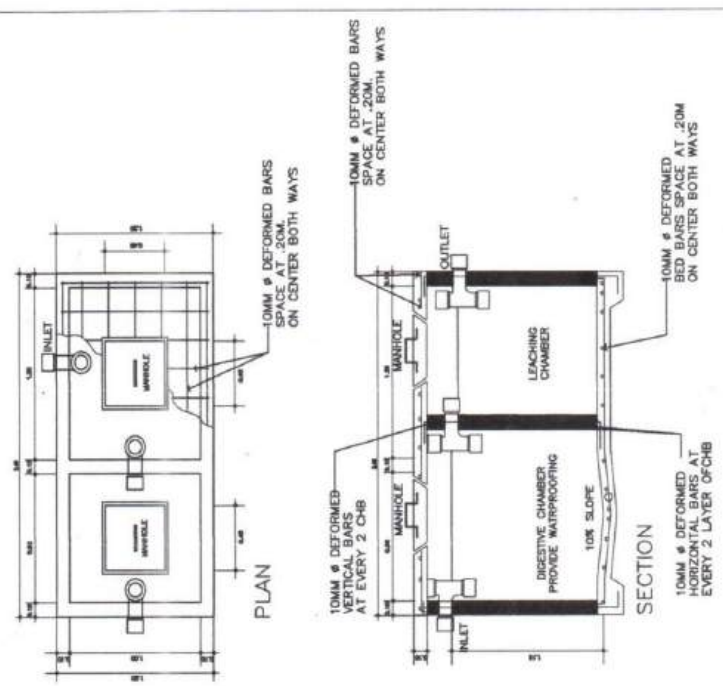
PLUMBING PLAN  
SCALE 1:100 M



PLUMBING ISOMETRIC DIAGRAM  
SCALE N.T.S.

- LEGEND:
- S.V. SEPTIC VAULT
  - C.O. CLEAN OUT
  - V.P. VENT THROUGH ROOF
  - F.D. FLOOR DRAIN
  - C.B. CATCH BASIN
  - D.S. DOWN SPOUT

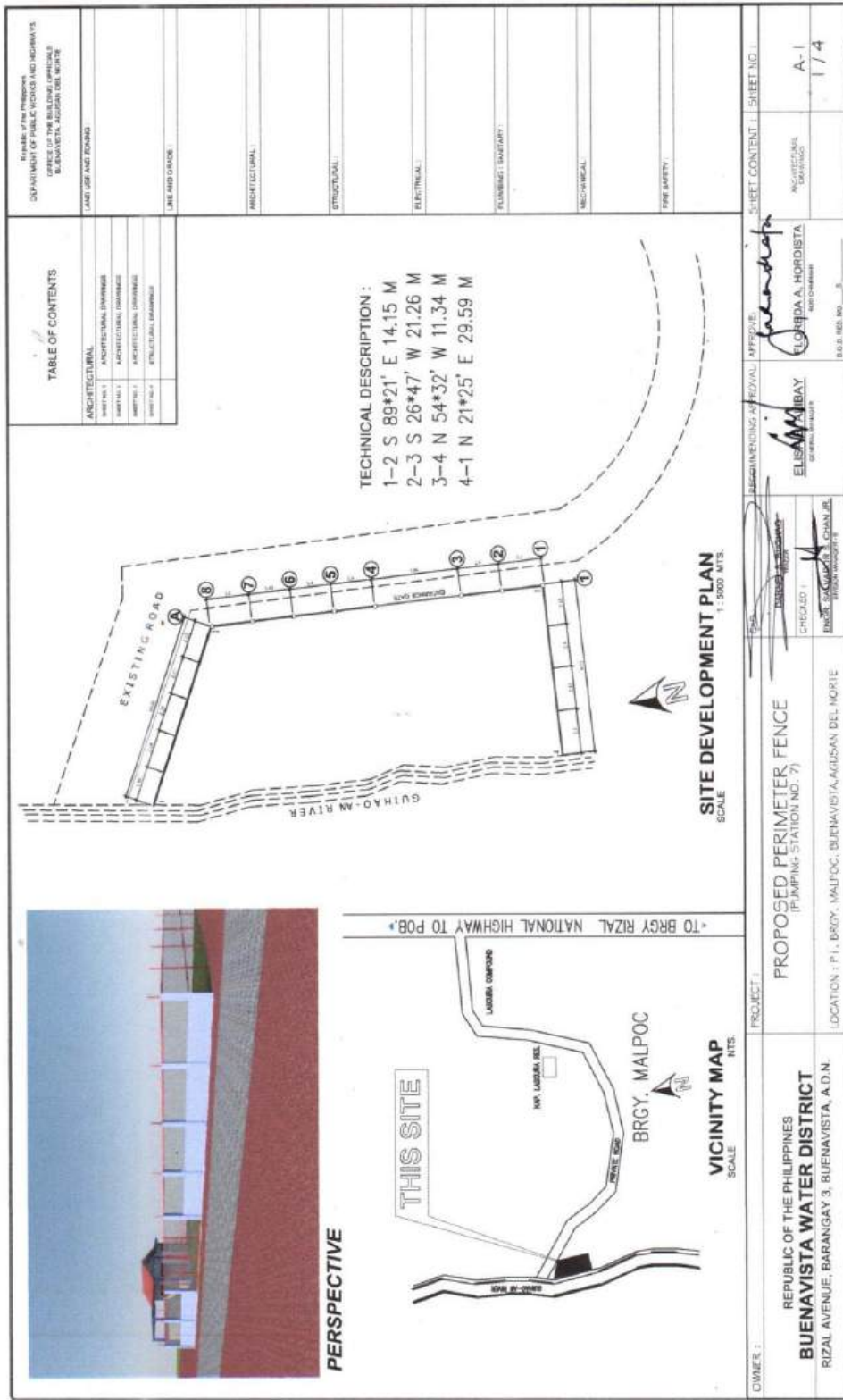
- F. FAUCET
- L. LAVATORY
- S. SINK
- U. URINAL
- U.R. URINAL ROW
- W. WATER LINE
- S. SANITARY LINE

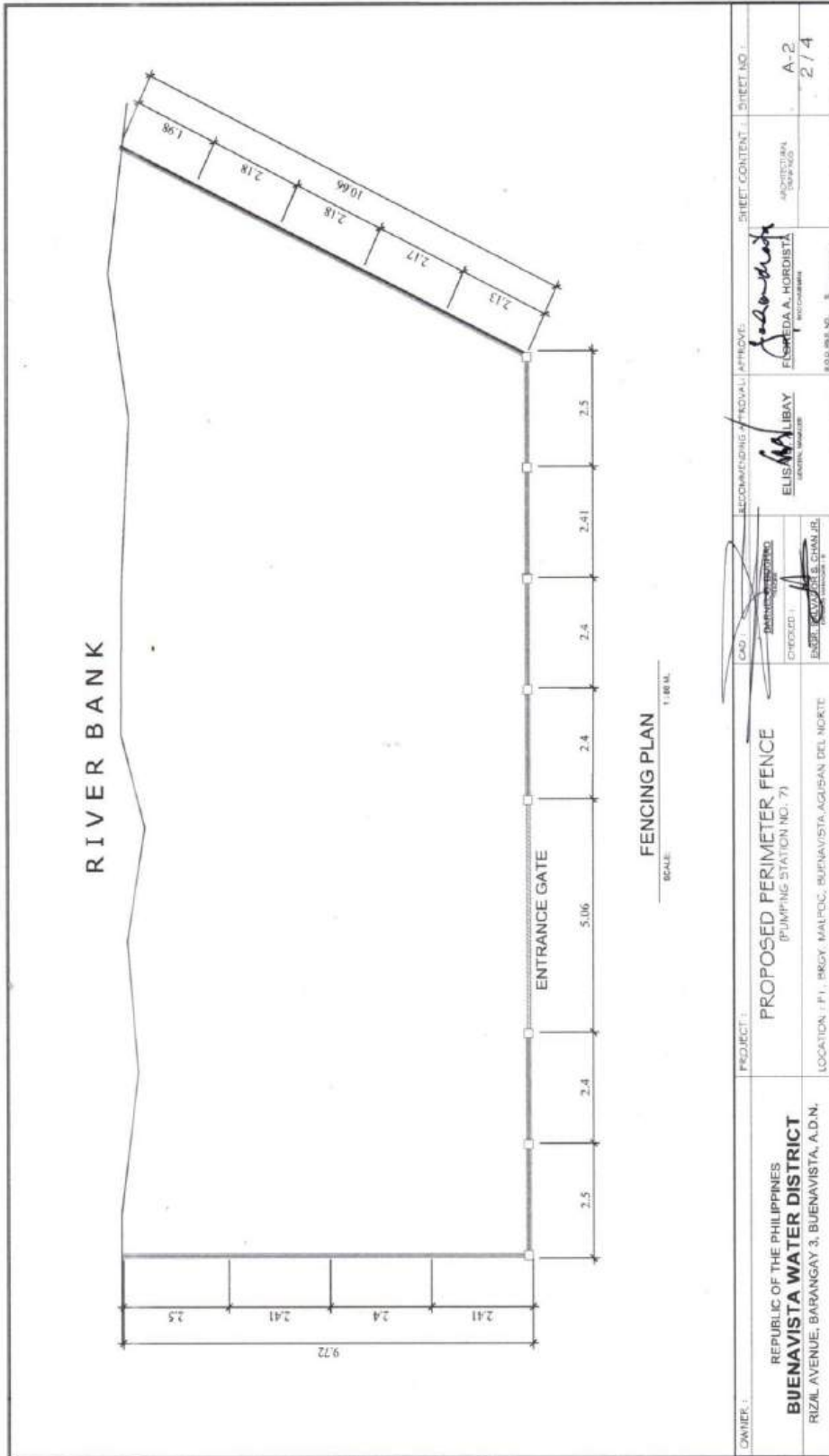


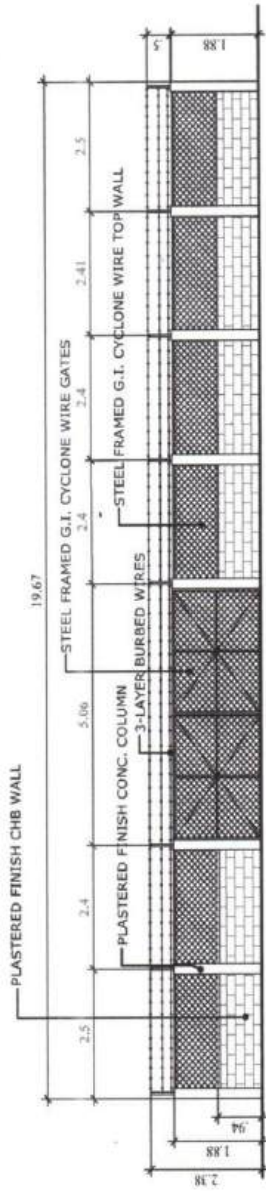
SEPTIC VAULT DETAIL  
SCALE N.T.S.

REPUBLIC OF THE PHILIPPINES <b>BUENAVISTA WATER DISTRICT</b> BUENAVISTA, AGUSAN DEL NORTE	PROJECT : <b>PROPOSED ONE-STOREY PUMP HOUSE BLDG.</b>		RECOMMENDATION APPROVAL :  <b>ELISA ALBAY</b> GENERAL MANAGER	APPROVED :  <b>DIR. FLORIDA A. HORDISTA</b> BOB CHAIRMAN	CONTENT : PLUMBING DRAWINGS	SHEET NO <b>717</b>
	LOCATION : PS NO. 8, BRGY. RIZAL, BUENAVISTA, AGUSAN DEL NORTE		CHECKED :  <b>BARBET S. BORRAJO</b> ENGR.	DRAWN :  <b>ENGR. SALVADOR S. CHAN JR.</b>		

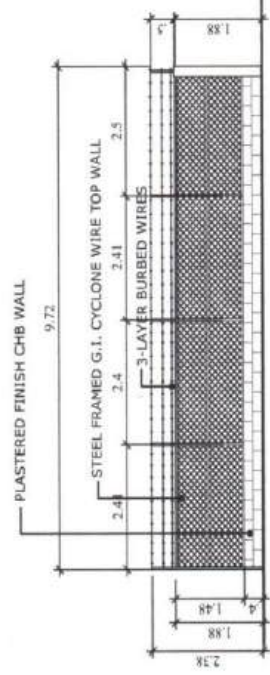
2. a. PROPOSED PERIMETER FENCE FOR PUMP STATION NO. 7



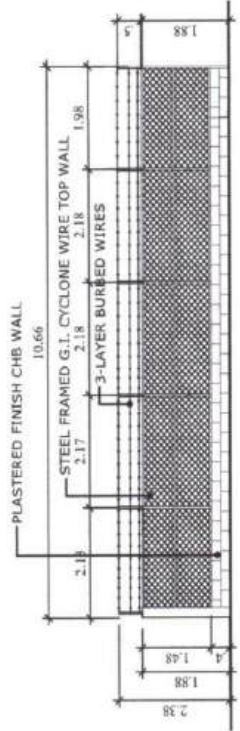




FRONT SIDE SECTION  
SCALE: 1 IN. = 1 M.



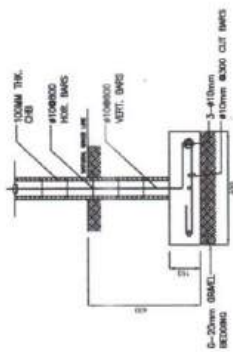
LEFT SIDE SECTION  
SCALE: 1 IN. = 1 M.



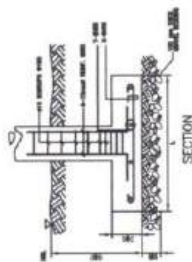
RIGHT SIDE SECTION  
SCALE: 1 IN. = 1 M.

OWNER :	PROJECT :	DESIGNING / PREPARED / APPROVAL / APPROVE :	SHEET CONTENT :	SHEET NO. :
REPUBLIC OF THE PHILIPPINES <b>BUENAVISTA WATER DISTRICT</b> RIZAL AVENUE, BARANGAY 3, BUENAVISTA, A.D.N.	<b>PROPOSED PERIMETER FENCE</b> (PUMPING STATION NO. 7)	<i>[Signature]</i> DANIEL E. BUDIAQ CHECKED : ENGR. ELIADAR A. GONZ JR. REGISTERED PROFESSIONAL ENGINEER	ARCHITECTURAL DRAWING	A-3 3 / 4
	LOCATION : P. 1, BRGY. MALPOC, BUENAVISTA, AGUIGAN DEL NORTE	ELISA A. LABAY REGISTERED PROFESSIONAL ARCHITECT	FLORIDA A. HORDISTA REGISTERED PROFESSIONAL ARCHITECT	PROJ. RES. NO. _____

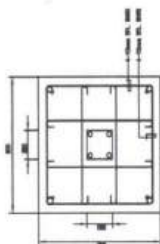




DETAIL OF WF

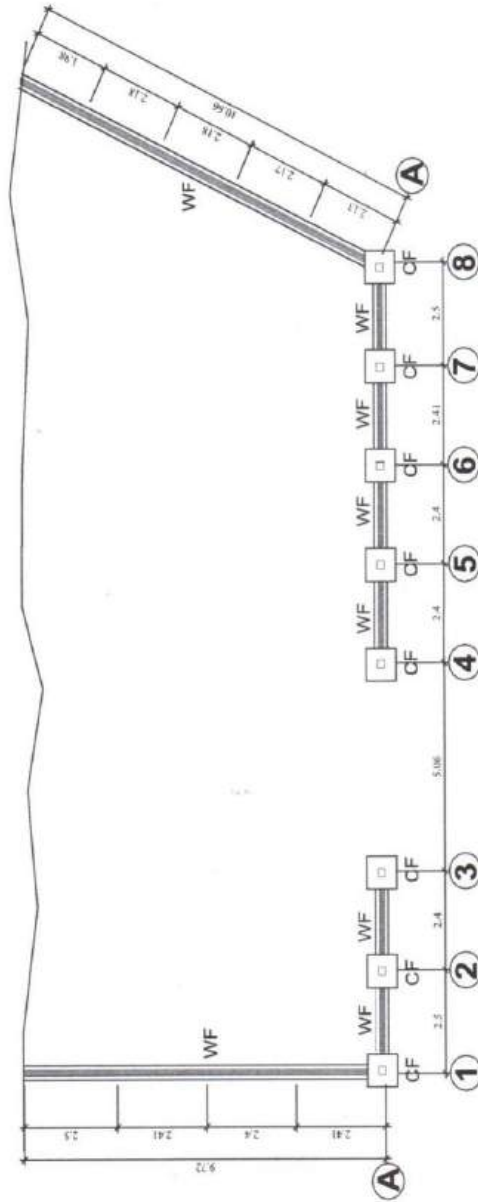


SECTION



PLAN

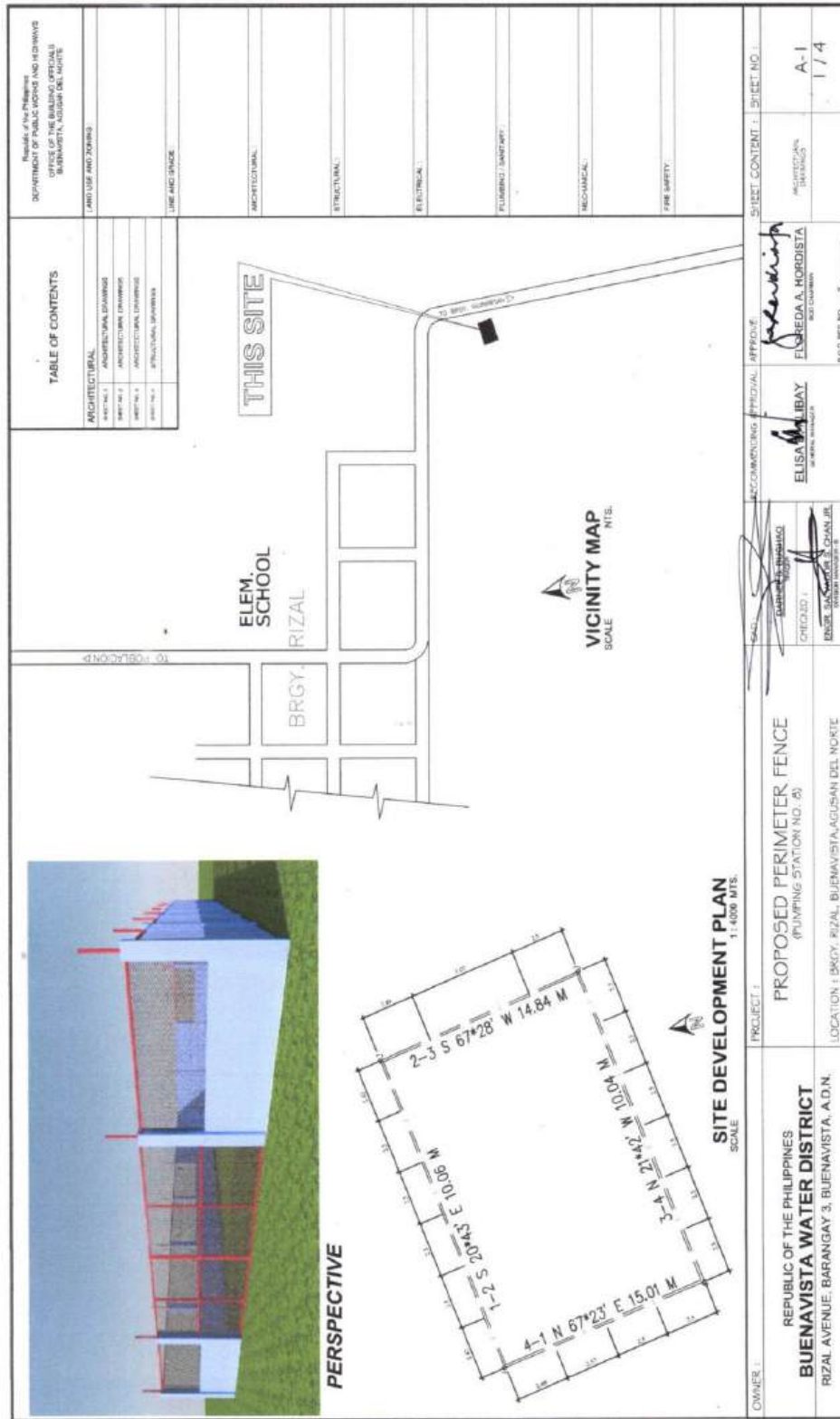
FOOTING & COLUMN DETAILS  
H.E.L.

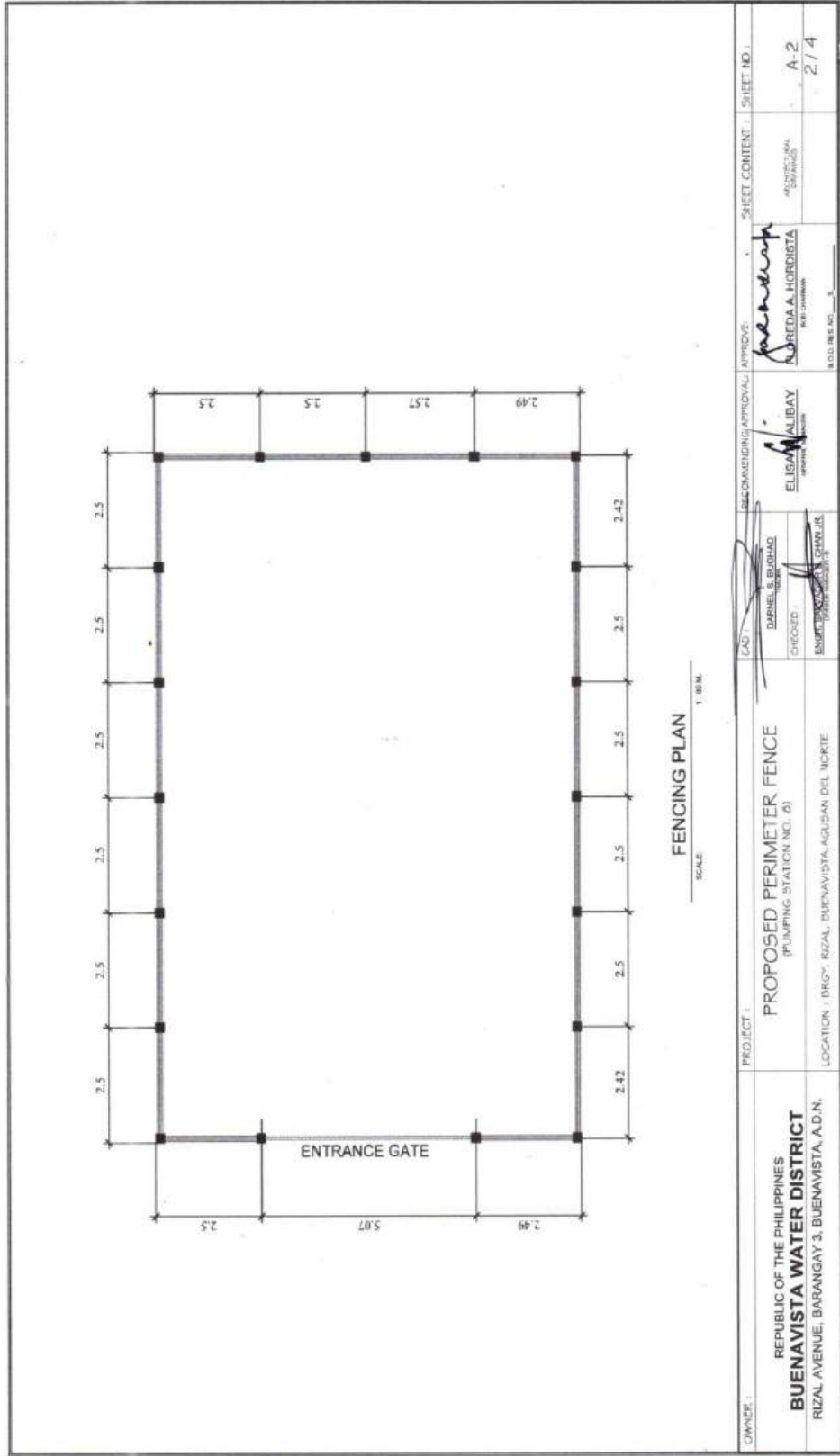


FOUNDATION PLAN  
SCALE 1:100 M

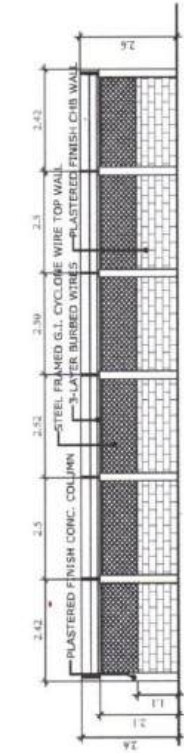
OWNER :	PROJECT :	RECOMMENDING APPROVAL (PREPARE):	SHEET CONTENT :	SHEET NO. :
REPUBLIC OF THE PHILIPPINES <b>BUENAVISTA WATER DISTRICT</b> RIZAL AVENUE, BARANGAY 3, BUENAVISTA, A.D.N.	PROPOSED PERIMETER FENCE (PUMPING STATION NO. 7) LOCATION: P.I., BRGY. MALPOC, BUENAVISTA, AGUSAN DEL NORTE	ELISA M. SIBAY REGISTERED CIVIL ENGINEER	PROPOSED PERIMETER FENCE	5-1 4/4
		APPROVED: <i>[Signature]</i> SABEDA A. HORDISTA REGISTERED CIVIL ENGINEER		
		CHECKED: <i>[Signature]</i> ELISA M. SIBAY REGISTERED CIVIL ENGINEER		
		DESIGNED: <i>[Signature]</i> ELISA M. SIBAY REGISTERED CIVIL ENGINEER		

**b. PROPOSED PERIMETER FENCE FOR PUMP STATION NO. 8**

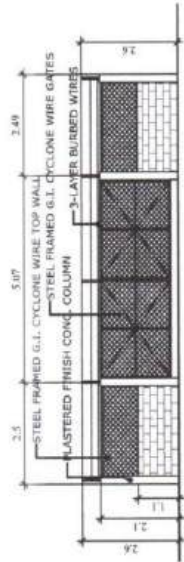




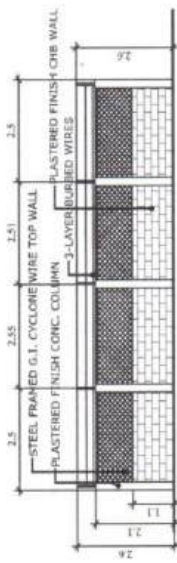
DWAYER : <b>REPUBLIC OF THE PHILIPPINES</b> <b>BUENAVISTA WATER DISTRICT</b> RIZAL AVENUE, BARANGAY 3, BUENAVISTA, A.D.N.	PROJECT : <b>PROPOSED PERIMETER FENCE</b> (PUMPING STATION NO. 0)  LOCATION : DRG <sup>o</sup> , RIZAL, BUENAVISTA, AGUSAN DEL NORTE	CHECKED : DANIEL S. BUDHAO ENGINEER	RECOMMENDING / APPROVAL / APPROVE : ELISA MALIBAY ENGINEER	SHEET CONTENT : ELECTRICAL DRAWINGS	SHEET NO. : A-2 2 / 4
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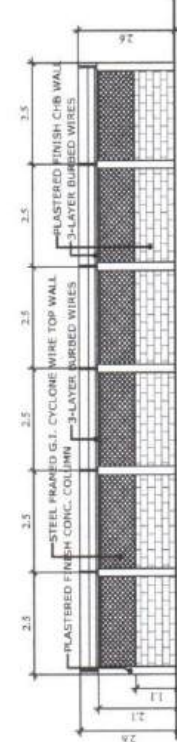
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FRONT SIDE SECTION  
SCALE: 1:100 M

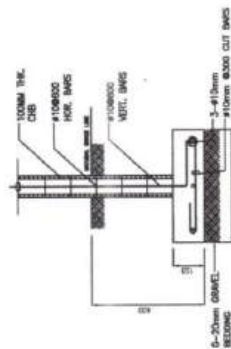


REAR ELEVATION  
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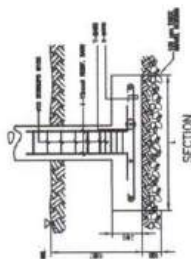


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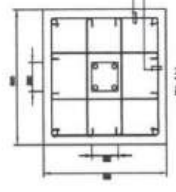
OWNER: <b>REPUBLIC OF THE PHILIPPINES BUENAVISTA WATER DISTRICT RIZAL AVENUE, BARANGAY 3, BUENAVISTA, A.D.N.</b>	PROJECT: <b>PROPOSED PERIMETER FENCE (PUMPING STATION NO. 8)</b>	DATE: APRIL 2018	RECORDING OFFICIAL APPROVE: <i>Elisbeth Sibay</i> <b>ELISABETH SIBAY</b> REGISTERED ARCHITECT	SHEET CONTENT - SHEET NO. 1: <b>A-3</b> <b>3/4</b>
	LOCATION: BRGY. RIZAL, BUENAVISTA, ACUSAN DEL NORTE	ENGINEER: <i>Edgardo A. Horvista</i> <b>EDGARDO A. HORVISTA</b> REGISTERED ARCHITECT	REGISTERED ARCHITECT APPROVE: <i>Edgardo A. Horvista</i> <b>EDGARDO A. HORVISTA</b> REGISTERED ARCHITECT	



DETAIL OF WF

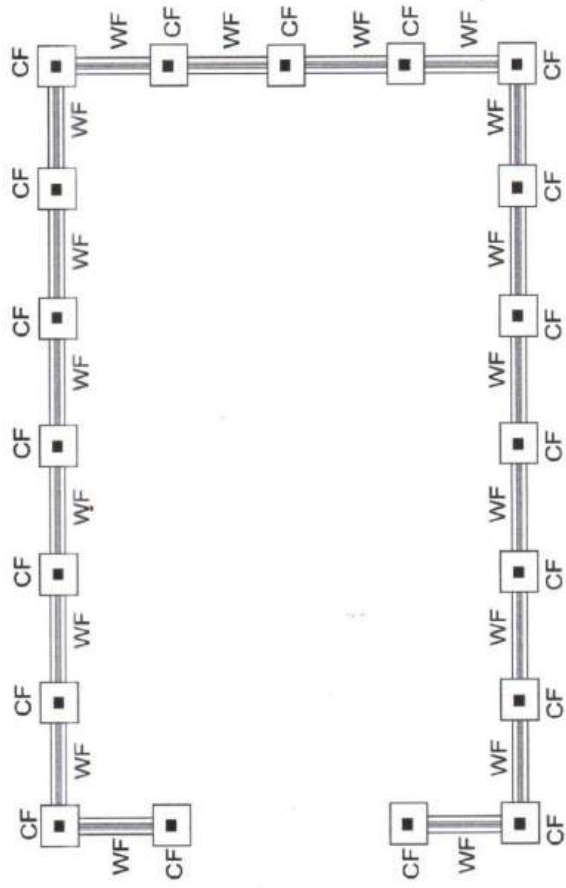


SECTION



PLAN

FOOTING & COLUMN DETAILS  
NTE.



FOUNDATION PLAN  
SCALE 1:100M

OWNER :	REPUBLIC OF THE PHILIPPINES <b>BUENAVISTA WATER DISTRICT</b> RIZAL AVENUE, BARANGAY 3, BUENAVISTA, A.D.N.	PROJECT :	PROPOSED PERIMETER FENCE (PUMPING STATION NO. 8)	LOCATION :	DRGV, RIZAL, BUENAVISTA, AGUSAN DEL NORTE	DATE :	2024.05.08	CHECKED :	ENR. SA. CARLOS CHAN JR. REGISTERED CIVIL ENGINEER	DESIGNED :	ELISA ALIBAY REGISTERED CIVIL ENGINEER	APPROVED :	FLOREDA A. HORDISTA REGISTERED CIVIL ENGINEER	SHEET CONTENT :	5-1 4/4	SHEET NO. :	
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## **Section VIII. Bill of Quantities**

### **Notes on the Bill of Quantities**

#### **Objectives**

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

#### **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

#### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals

as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

### **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

## BILL OF QUANTITIES

### 1. PROPOSED PUMP HOUSE NUMBER 8

ITEM NO.	ITEM DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL
I	<b>PREPARATION OF PLANS, ANALYSIS, PERMITS, LICENSING, ETC</b>	1	Lot		
	Engineering Designs, complete detailed Plans, Permits, etc.	1	Lot		
	<b>TOTAL FOR REINFORCING STEEL BARS</b>				
II	<b>SITE WORKS</b>	14.168	cu.m.		
	a. Clearing & Excavation				
	Construction Foreman - 1	3	days		
	Laborers - 4	3	days		
	b. EMBANKMENT				
	Filling Materials	20	cu.m.		
	Labor				
	Construction Foreman - 1	2	days		
	Laborers - 4	2	days		
<b>TOTAL FOR SITE WORKS</b>					
III	<b>CONCRETE WORKS</b>	9.16	cu.m.		
	a. Materials:				
	Portland Cement (40 kgs)	85	bags		
	Washed Gravel 3/4 dia	9	cu.m.		
	Washed Sand	5	cu.m.		
	b. Labor				
	Labor Cost (40% of material Cost)				
<b>TOTAL FOR CONCRETE WORKS</b>					
IV	<b>REINFORCING STEEL BARS</b>	188	lengths		
	a. Materials:				
	12 mm dia x 6 m RSB	102	lengths		
	10 mm dia x 6 m RSB	86	lengths		
	# 16 G.I. Tie Wire	22	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR REINFORCING STEEL BARS</b>					
V	<b>MASONRY WORKS w/ PLASTER FINISH</b>	82.13	sq.m.		
	a. Materials:				
	4" CHB	920	pcs		
	Skim Coat	5	pcs		
	10 mm dia x 6 m RSB	28	lengths		
	#16 G.I. TIE WIRE	3	kgs.		
	Portland Cement (40 kgs)	90	bags		
	Washed Sand	9	cu.m.		
	b. Labor:				



	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR MASONRY WORKS</b>					
<b>VI</b>	<b>FORMWORKS &amp; SCAFFOLDINGS</b>	51.44	sq.m.		
	a. Materials:				
	1/4" Thick Ordinary Plywood	18	pcs.		
	180 - 2" X 2' X 10' Coco Lumber	600	bd.ft.		
	20 - 2" X 3' X 10' Coco Lumber	100	bd.ft.		
	1" x 2" x 8' Sticks	20	bdl		
	Assorted CWN	20	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR FORMWORKS &amp; SCAFFOLDINGS</b>					
<b>VII</b>	<b>TILE WORKS</b>				
	a. Materials:				
	40 X 40 cm Glazed Ceramic Tiles	45	pcs.		
	40 X 40 cm Unglazed Ceramic Tiles	20	pc.		
	ABC Grout	3	bags		
	Portland Cement (40 kgs)	5	bags		
	Washed Sand	0.5	cu.m.		
	Tile Trim	3	pcs.		
	Tile Adhesive	5	bags		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR TILE WORKS</b>					
<b>VIII</b>	<b>ELECTRICAL WORKS</b>	1	lot		
	a. Materials				
	Electrical works complete w/ bulbs, receptacles, switches & other appurtenances	1	lot		
<b>TOTAL FOR ELECTRICAL WORKS</b>					
<b>IX</b>	<b>PLUMBING WORKS</b>	1	lot		
	a. Materials:				
	Plumbing works complete w/ sanitary pipes, faucets, pipelines and other appurtenances.	1	lot		
<b>TOTAL FOR PLUMBING WORKS</b>					
<b>X</b>	<b>PAINTING WORKS</b>	93.99	sq.m.		
	a. Materials:				
	Wall putty (Glazing)	1	gal.		
	Skim Coat	11	bags		
	Concrete Neutralizer	2	gal.		
	Flat Latex (White)	5	gal.		
	Semi-gloss Latex (Blue)	5	gal.		
	Quick Drying Enamel Paint (White)	2	gals.		
	Paint Thinner	2	lit		
	Mixing Pan	2	pcs.		
	6" Paint Roller w/ Handle	2	sets		

	4" Paint Brush	2	pcs.		
	2" Paint Brush	2	pcs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR PAINTING WORKS</b>					
<b>XI</b>	<b>ROOFING WORKS</b>	28.42	sq.m.		
	a. Materials:				
	Corr. G.I. Sheets 0.40 mm (8')	20	pcs.		
	G.I. Sheets Ga. 24 Plain (8')	3	pcs.		
	Tek Screw #14 x 2"	250	pcs.		
	Elasto Seal (Sachet)	2	pcs.		
	Red Oxide	2	gal.		
	LC- 100mm X 50 mm X 15 mm X 1.50 mm	8	pcs.		
	LC- 75mm X 50 mm X 15 mm X 1.50 mm	10	pcs.		
	Angle Bars 1" X 1" X 1/4" thick	4	pcs.		
	Welding Rod	10	kgs.		
	b. Labor				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR ROOFING WORKS</b>					
<b>XII</b>	<b>DOORS</b>	5	sets		
	a. Materials:				
	PVC Flush Door 2.10 X .60 m complete with PVC Jamb and Doorknobs	1	set		
	Aluminum Framed Sliding Glass Door (2.10 X .95)	1	set		
	2.10 X .70 m Wooden Panel Door	1	set		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR DOORS</b>					
<b>XIII</b>	<b>SLIDING GLASS WINDOW</b>	5.87	sq.m.		
	Installation of Sliding Glass Window 1/4" thick complete w/ aluminum frames & accessories	5.87	sq.m.		
<b>TOTAL FOR SLIDING GLASS WINDOW</b>					
<b>XIV</b>	<b>SEPTIC VAULT</b>	1	lot		
	Construction of Septic Vault (materials & labor)	1	lot		
<b>TOTAL FOR SEPTIC VAULT</b>					
<b>Total Cost of Pump House no. 8</b>				<b>P</b>	

## 2. a. PROPOSED PERIMETER FENCE FOR PUMP STATION NO.7

ITEM NO.	ITEM DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL
I	PREPARATION OF PLANS, ANALYSIS, PERMITS, LICENSING, ETC	1	lot		

	Engineering Designs, complete detailed Plans, Permits, etc.	1	lot		
<b>TOTAL FOR PREPARATION OF PLANS, ANALYSIS, PERMITS, LICENSING, ETC</b>					
II	<b>SITE WORKS</b>	9	cu.m.		
	a. Clearing and Excavation				
	Clearing and Excavation	1	lot		
	B. Labor				
	1 - Construction Foreman	3	days		
	2 - Laborers	3	days		
<b>TOTAL FOR SITE WORKS</b>					
III	<b>CONCRETE WORKS</b>	3.76	cu.m.		
	A. Materials:				
	Portland Cement (40 kgs)	38	bags		
	Washed Gravel 3/4 dia	4	cu.m.		
	Washed Sand	2	cu.m.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR CONCRETE WORKS</b>					
IV	<b>REINFORCING STEEL BARS</b>	93	lengths		
	a. Materials:				
	12 mm dia x 6 m RSB	52	lengths		
	10 mm dia x 6 m RSB	31	lengths		
	# 16 G.I. Tie Wire	10	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR REINFORCING STEEL BARS</b>					
V	<b>MASONRY WORKS</b>	43.3	sq.m.		
	a. Materials:				
	4" Concrete Hollow Blocks HB	542	pcs		
	10 mm dia x 6 m RSB	43	lengths		
	#16 G.I. TIE WIRE	4	kgs.		
	Portland Cement (40 kgs)	40	bags		
	Washed Sand	4	cu.m.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR MASONRY WORKS</b>					
VI	<b>FORMWORKS &amp; SCAOLDINGS</b>	33.6	sq.m.		
	a. Materials:				
	Plywood 1/4" thick Ordinary	12	pcs.		
	Lumber 1"x2"x8'	8	bundle		
	Coco Lumber 15- 2" X 2' X 10'	50	bd.ft.		
	Assorted CWN	15	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR FORMWORKS &amp; SCAOLDINGS</b>					
VII	<b>STEEL WORKS</b>	18	lengths		
	a. Materials:				

	G.I. Pipe 1-1/2"Ø	18	lengths		
	Cyclone Wire 6' X 8m X 2" holes	27	m		
	GI Barbed Wire	9	rolls		
	Welding Rod	5	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR STEEL WORKS</b>					
<b>VIII</b>	<b>PAINTING WORKS</b>	73.29	sq.m.		
	a. Materials:				
	Semi-Gloss Latex Paint (Blue)	8	gal.		
	Red Oxide Paint (Primer)	2	gal.		
	Mixing Pan	2	pcs.		
	Paint Thinner	2	lit		
	6" Paint Roller with Handle	4	pcs.		
	2" Paint Brush	4	pcs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR PAINTING WORKS</b>					
<b>IX</b>	<b>ENTRANCE GATE W/ MANHOLE</b>	1	lot		
	Fabrication and Installation of STEEL GATE 4.85m x 2.2m with Manhole including Painting.	1	lot		
<b>TOTAL FOR ENTRANCE GATE W/ MANHOLE</b>					
<b>Total Cost of Perimeter Fence of Pump Station 7</b>				<b>P</b>	

#### b. PROPOSED PERIMETER FENCE FOR PUMP STATION NO.8

ITEM NO.	ITEM DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL
<b>I</b>	<b>PREPARATION OF PLANS, ANALYSIS, PERMITS, LICENSING, ETC</b>	1	lot		
	Engineering Designs, complete detailed Plans, Permits, etc.	1	lot		
<b>TOTAL FOR PREPARATION OF PLANS, ANALYSIS, PERMITS, LICENSING, ETC</b>					
<b>II</b>	<b>SITE WORKS</b>	12.16	cu.m.		
	a. Clearing and Excavation				
	Clearing and Excavation	1	lot		
	B. Labor	4	days		
	1 - Construction Foreman	4	days		
	2 - Laborers				
<b>TOTAL FOR SITE WORKS</b>					
<b>II</b>	<b>CONCRETE WORKS</b>	5.472	cu.m.		
	a. Materials:				
	Portland Cement (40 kgs)	55	bags		
	Washed Gravel 3/4 dia	6	cu.m.		
	Washed Sand	4	cu.m.		

	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
	<b>TOTAL FOR CONCRETE WORKS</b>				
<b>III</b>	<b>REINFORCING STEEL BARS</b>	213	lengths		
	a. Materials:				
	12 mm dia x 6 m RSB	114	lengths		
	10 mm dia x 6 m RSB	76	lengths		
	# 16 G.I. Tie Wire	23	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
	<b>TOTAL FOR REINFORCING STEEL BARS</b>				
<b>IV</b>	<b>MASONRY WORKS</b>	78.28	sq.m.		
	a. Materials:				
	Concrete Hollow Blocks 4" (HB)	979	pcs		
	10 mm dia x 6 m RSB	79	lengths		
	#16 G.I. Tie Wire	7	kgs.		
	Portland Cement (40 kgs)	79	bags		
	Washed Sand	8	cu.m.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
	<b>TOTAL FOR MASONRY WORKS</b>				
<b>V</b>	<b>FORMWORKS &amp; SCAFFOLDINGS</b>	45.6	sq.m.		
	a. Materials:				
	Plywood 1/4" Thick - Ordinary	10	pcs.		
	Lumber 1"x2"x8'	14	bundle		
	Coco Lumber 2" X 2' X 10' - 30	100	bd.ft.		
	Assorted CWN	20	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
	<b>TOTAL FOR FORMWORKS &amp; SCAFFOLDINGS</b>				
<b>VI</b>	<b>STEEL WORKS</b>	10	lengths		
	a. Materials:				
	1 - 1/2"Ø G.I. Pipe	10	lengths		
	Cyclone Wire 6' x 8 m x 2" holes	23	m		
	GI Barbed Wire	9	rolls		
	Welding Rod	5	kgs.		
	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
	<b>TOTAL FOR STEEL WORKS</b>				
<b>VII</b>	<b>PAINTING WORKS</b>	67.5	sq.m.		
	a. Materials:				
	Semi-Gloss Latex Paint (Blue)	8	gal.		
	Red Oxide Paint (Primer)	1	gal.		
	Mixing Pan	2	pcs.		
	Paint Thinner	2	lit		
	Paint Roller 6" w/ Handle	4	pcs.		
	Paint Brush 2"	4	pcs.		

	b. Labor:				
	Labor Cost (40% of material Cost)	1	lot		
<b>TOTAL FOR PAINTING WORKS</b>					
<b>VIII</b>	<b>ENTRANCE GATE W/ MANHOLE</b>	1	lot		
	a. Materials:				
	STEEL GATE 4.85m x 2.2m with Manhole including Painting, Fabrication and Installation	1	lot		
<b>TOTAL FOR ENTRANCE GATE W/ MANHOLE</b>					
<b>Total Cost of Perimeter Fence of Pump Station 8</b>				<b>P</b>	
<b>TOTAL PROJECT COST</b>					
				<b>P</b>	

## **Section IX. Checklist of Technical and Financial Documents**

### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### Class "A" Documents

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

#### 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; **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; **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, submit also a certification issued by the Insurance Commission **or** original copy of Notarized Bid Securing Declaration; **and**
- (f) 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**
- (g) 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

- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

**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 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**

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

Other documentary requirements under RA No. 9184

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

Republic of the Philippines



Government Procurement Policy Board