

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Rebidding of Design and Build Services for the Upgrading Sewage Treatment Plant, Rehabilitation of Old STP and Construction of New 150CMD STP (EPA) (2025-23)

Government of the Republic of the Philippines

**Sixth Edition
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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 contract, 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 the Rebidding of Design and Build Services for the Upgrading Sewage Treatment Plant, Rehabilitation of Old STP, and Construction of New 150CMD STP (EPA)

1. The **Mariveles Mental Wellness and General Hospital** is conducting the **Rebidding of Design and Build Services for the Upgrading Sewage Treatment Plant, Rehabilitation of Old STP, and Construction of New 150CMD STP (EPA) / 2025-23**, through the early procurement activity (EPA) for Fiscal Year 2025, consistent to Section 7.6 of RA 9184, where the procuring entity is allowed to undertake the procurement activities short of award.

The **Mariveles Mental Wellness and General Hospital**, through the **National Expenditure Program of 2025** intends to apply the sum of **Twenty-Five Million Pesos Only (₱25,000,000.00)** being the ABC to payments under the contract for **Design and Build Services for the Upgrading Sewage Treatment Plant, Rehabilitation of Old STP and Construction of New 150CMD STP (EPA) / 2025-23**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The **Mariveles Mental Wellness and General Hospital** now invites bids for the above Procurement Project. Completion of the Works is required **180 calendar days**. Bidders should have completed a contract similar to the Project within **two (2) years** from the date of submission and receipt of bids. 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 **MMWGH** and inspect the Bidding Documents at the address given below from M-F; 8am-5pm, except holidays.
5. A complete set of Bidding Documents may be acquired by interested bidders on **July 29 - August 18, 2025**, from the given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **P25,000.00**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The **MMWGH** will hold a Pre-Bid Conference on **August 6, 2025, at 2:00 P.M.** at the given address below and/or through videoconferencing/webcasting *via Zoom*, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **August 19, 2025, at 10:00 A.M.** 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.
The MMWGH may request the bidders to extend the validity of the bid securities beyond one hundred twenty (120) calendar days, prior to the expiration, if the funding source has yet to be approved and made effective. A change in the form of bid security is allowed if this is made prior to the expiration of the bid validity sought to be extended. If the bidder refuses to extend the bid validity, the MMWGH shall reject the bid submitted by the said bidder.
9. Bid opening shall be on before **August 19, 2025, at 10:00 A.M.** at the given address below and/or via *Zoom*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Notice of Award (NOA) will only be issued upon the approval of the Awarding BAC Resolution and the Release of Sub-Allotment Advice from the Hospital Facilities Enhancement Program 2025.
11. For further information, please refer to:

MARY RODELINE M. CASUAYAN

BAC Secretariat

Procurement Unit

Mariveles Mental Wellness and General Hospital

P. Monroe Street, Mariveles, Bataan

Email Address: procurement@mmwgh.gov.ph

Website: www.mmwgh.com

Contact No.: +639-688545320 / (047) 613-6711

12. You may visit the following website(s):
For downloading of Bidding Documents: <https://mmwgh.com/invitation-to-bid/>

Date of Issue: July 29, 2025

sgd.

LAARNI D. MAGLAQUI, MBA

Chairperson, Bids and Awards Committee 3

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the 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 contract.

1. Scope of Bid

The Procuring Entity, **Mariveles Mental Wellness and General Hospital**, invites Bids for the **Design and Build Services for the Upgrading Sewage Treatment Plant, Rehabilitation of Old STP and Construction of New 150CMD STP (EPA)**, with Project Identification Number **2025-17**.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

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 **2025** in the amount of **Twenty-Five Million Pesos Only (₱25,000,000.00)**

2.2. The source of funding is:

a. NGA, the National Expenditure Program.

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

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

- a. Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **December 16, 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 its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

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

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

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 the 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

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Sewerage and Sewage Treatment/Disposal Plant		
10.4	The key personnel must meet the required minimum years of experience set below:		
	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>
	Project Manager (Engineer or Architect)	10 years of experience in Construction Management	Good oral and written communication skills, and experience in STP Construction
	Civil Engineer (CE)	Licensed Structural Engineer & Civil Engineer, atleast 5 years of experience in Building Construction.	With experience on STP Construction
	Electrical Engineer	Licensed Professional Electrical Engineer, preferably at least 5 years in experience	
	Mechanical Engineer	Licensed Professional Mechanical Engineer, preferably with at least 10 years of experience	Mechanical Works in STP Construction
	Sanitary Engineer	Licensed Sanitary Engineer, preferably with at least 10 years of experience	With experience in STP Construction/ Design
	CADD Operator	At least a Bachelor's Degree in Architecture or Engineering	
	Materials Engineer		Licensed Engineer & DPWH Accredited
	Quality Control Officer		Licensed Architect/Engineer
	Pollution Control Officer		DENR -EMB accredited

		Pollution Control Officer
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than <u>P500,000.00</u> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than <u>P 1,250,000.00</u> if bid security is in Surety Bond.	
20	<i>[List licenses and permits relevant to the Project and the corresponding law requiring it, e.g. Environmental Compliance Certificate, Certification that the project site is not within a geohazard zone, etc.]</i> - Category: Minimum PCAB License of General Building as Primary or Other Classification, License Category B with Sewerage and Sewage Treatment/Disposal Plant of Size Range: Small B	
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.	

Section IV. General Conditions of Contract

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**

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

4. **The Contractor's Obligations**

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V. Special Conditions of Contract

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 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>[If different dates are specified for completion of the Works by section, i.e. "sectional completion," these dates should be listed here.]</i></p> <p><i>Not applicable</i></p>
4.1	<p><i>[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]</i></p> <p><i>Site is ready for Construction.</i></p>
6	<p>The site investigation reports are: Site inspection and verification.</p>
11.1	<p>The Contractor shall submit the Program of Work to the Procuring Entity's Representative before the Bid opening.</p>
11.2	<p>The amount to be withheld for late submission of an updated Program of Work is <i>not applicable, late submission will cause outright rejection for the bids.</i></p>
13	<p>The amount of the advance payment <i>not exceed 15% of the total contract price.</i></p>
14	<p><i>[If allowed by the Procuring Entity, state:]</i> Materials and equipment delivered on the site but not completely put in place shall be included for 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.



TERMS OF REFERENCE

DESIGN AND BUILD SERVICES FOR THE UPGRADING OF SEWAGE TREATMENT PLANT (REHABILITATION OF OLD STP AND CONSTRUCTION OF NEW 150CMD STP)

I. BACKGROUND AND RATIONALE:

Pursuant to the provisions of the Clean Water Act of 2004 – An Act providing for a comprehensive water quality management and for other purposes, the state shall pursue a policy of economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine waters.

This Act shall apply to water quality management in all water bodies, provided, that it shall primarily apply to the abatement and control of pollution from land-based sources, provided further, that the water quality standards and regulations under this Act shall be enforced irrespective of sources of pollution.

II. PROJECT OBJECTIVES:

- A. To comply with the provisions of RA 9275 (An Act Providing for the Comprehensive Water Quality Management and for other purposes) known as Clean Water Act of 2004;
- B. To improve the Sewerage System Network of the Hospital, connecting the rehabilitated old STP of 150CMD to New 150CMD STP to have a combined capacity of 300CMD.
- C. To make MMWGH compliant to RA 9275 and PD 1586 or the Philippines Environmental Impact Statement System.

III. DELIVERABLES:

- A. Schematic diagram based on existing site conditions and development plan.
- B. Detailed Architectural and Engineering Design (DAED), Piping and Instrumentation Diagram (P&ID), Process Flow Diagram, Logic Diagram (if applicable), Detailed Bill of Quantities and Cost Estimates, Technical Specifications, and Design Computations.
- C. Proof that the proposed technology adheres to EMB's set parameters for water quality guidelines (Site previously installed with the same technology and their recent ROLA for the parameters which corresponds to MMWGH's)



- D. Supply of electrical equipment/devices, electro-mechanical works, electrical works including main feeder line and tapping to emergency power and all necessary works to make the STP functional and operational;
- E. Upgrading of existing Sewage System Network including excavation, chipping works, restoration, junction boxes/Manholes (w/ cast iron cover sealed type), installation of pipes and fittings (150mm diameter minimum) to connect all the existing septic tanks within the hospital to the STP facility;
- F. Training of STP operator/s to meet the minimum requirements:
 - Operations and maintenance (technology) of the STP
 - To conduct the various tests on wastewater samples. Must attain passing results based on the standard parameters issued by DENR-EMB under DAO 2016-08 & 2021-19.
 - Knowledge on working/operating procedures of electro-mechanical components installed in the treatment plant.
- G. Provision of Operation and Maintenance Manual for the Sewage Treatment Plant;
- H. Two (2) year warranty on labor and parts on Electro-Mechanical equipment, parts and system;
- I. One (1) year monitoring of start-up operations;
- J. Identification and general information of the vendor of spare parts within the Philippines, preferably within Metro Manila or in the local area.
- K. Old STP and New STP will have separate discharge points
- L. Permits (2 Discharge permits for old and new STP, and other applicable permits if needed)
- M. Documents needed for application of Discharge Permit (Engineer's Report, Water Balance Report)
- N. As Built Plan of the project
- O. One year inclusion of chemicals / other consumables to properly operate both STPs.

IV. SEWAGE TREATMENT FACILITY REQUIREMENTS:

A. EFFLUENT STANDARD PARAMETERS:

The wastewater effluent from the Sewage Treatment Plant (STP) shall meet the Effluent Standard set by DENR per Administrative Order No. 2016-08 and DAO 2021-19 and as reflected in MMWGH's Discharge Permit last 2024 as follows:

Significant Parameters	Standards	Significant Parameters	Standards
Ammonia (as NH ₃ -N)	3 mg/L	Surfactants (MBAS)	15 mg/L
BOD ₅	30 mg/L	Temperature	3 °C change
Color	150 TCU	Total Suspended Solids	70 mg/L
Nitrate (as NO ₃ -N)	14 mg/L	Oil and Grease	5 mg/L
pH (range)	6.0 - 9.5	Fecal Coliform	200 MPN/100 ml
Phosphate	2 mg/L		



However, once the new Discharge Permit applied is in effect, these parameters may or may not be changed and operation must be adjusted accordingly.

B. PROCESS

The wastewater to be discharged from the plant has to be treated by any up-to-date technology available, economical and advantageous in terms of operational expenses. The design/technology must be adherent to the latest effluent parameters set by DENR-EMB for hospitals.

The existing STP's technology is a Sequential Batch Reactor, on which the technology must be rehabilitated and upgraded to a newer technology, leaving the structure intact to ensure compliance to the latest DAO of EMB.

C. DESIGN CAPACITY OF THE UPGRADING OF STP

The proposed upgrade is designed to treat wastewater with the estimated capacity of a combined 300 cu. m/ day of the existing STP and to be constructed STP.

The design must have a sampling collection point on the upstream and downstream of the STPs, with corresponding flow meters on both.

D. PRE-PROCESS OPERATION

Before the conduct of actual process operation of the plant, the commissioning procedures have to be followed, including the commissioning and test run of equipment, pumps and other mechanical equipment. In all these procedures, the designer-contractor shall be responsible up to the start-up operation and will assist in the monitoring of parameters.

E. PROCESS START-UP

Start-up of the sewage treatment plant shall proceed with the presence of the Pollution Control Officer, hospital representatives/ staff in charge of the operation/ engineers.

F. PLANT MONITORING

When the STP is in operation, the parameters listed below shall be monitored on a quarterly basis including waste water analysis for the purpose of compliance with the regulatory body of the government, DAO 2016-08 & 2021-19. The corresponding Summary Monitoring Report shall be submitted to the Pollution Control Officer of the hospital. The contractor will monitor the STP's operation and provide Results of Laboratory Analysis (ROLA) of effluent quarterly within the one (1) year warranty of the project. The effluent parameters to be monitored will be reflected once the newly applied Discharge Permit is in effect.



G. PLANT MAINTENANCE

There has to be routine maintenance of equipment and items found in the STP including the electric motors, bearings, valves, seals, drives, generators, use of lubricants and protective coatings. The contractor shall perform overall quarterly preventive maintenance of the STP within the one (1) year warranty of the project.

H. SAFETY AND HEALTH

In the operation of STP, safety and health have to be given utmost importance. The responsibility for health and safety lies not only with the top management but also with the supervisor and staffs.

V. ELEGIBILITY REQUIREMENT

A. BASIC

1. The eligibility requirements for Design and Build Scheme shall comply with the applicable provisions of Section 12.1 (a) of the ITB and 12.1 (a) of the BDS of this bidding document.
2. A modified set of requirements integrating eligibility documents and criteria for infrastructure projects and consulting services shall be adopted in accordance with Annex G - Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects Annex "G" of IRR of RA 9184.
3. The Design and Build Contractor must have completed and turned over projects similar to the proposed project of at least fifty percent (50% of the ABC).

B. SPECIALIZED

1. The contractor shall have the minimum number of professionals for the project as shown below for:
 - a. Project Manager
 - i. Licensed Engineer or Architect
 - ii. At least 10 years of experience in construction management
 - iii. Good oral and written communication skills
 - b. Civil Engineer
 - ii. Licensed Structural Engineer & Civil Engineer
 - iii. Preferably at least 5 years in experience
 - c. Electrical Engineer
 - ii. Licensed Professional Electrical Engineer
 - iii. Preferably at least 5 years in experience



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- b. Mechanical Engineer
 - i. Licensed Professional Mechanical Engineer
 - ii. Preferably at least 10 years' experience in hospital and hospital-related projects
- d. Sanitary Engineer
 - i. Licensed Sanitary Engineer
 - ii. Preferably at least 10 years in experience
- e. CADD Operator
 - i. At least Bachelor's Degree in Architecture or Engineering
- f. Materials Engineer
 - i. Licensed Engineer
 - ii. DPWH Accredited
- g. Quality Control Officer
 - i. Licensed Architect/Engineer
- h. Pollution Control Officer
 - i. DENR -EMB accredited Pollution Control Officer

VI. APPROVED BUDGET COST

The approved budget cost for the project is Twenty-Five Million Pesos (P25,000,000.00)

Construction of New 150 CMD-STP	15,200,000.00
Rehabilitation of Existing STP	9,800,000.00
Total	25,000,000.00

VII. TIME FRAME:

The overall duration of the project is 180 Calendar Days including design proposal, construction, commissioning, effluent analysis, and up to turnover.

Prepared:


MEYNARD ANTHONY V. BANZON, ECE
Engineer II/ Pollution Control Officer

Recommending Approval:


VINCENT A. ISIP, MPA
Chief Administrative Officer

Checked:


MELVIN JAY A. YABUT, CE, MPA
Engineer IV

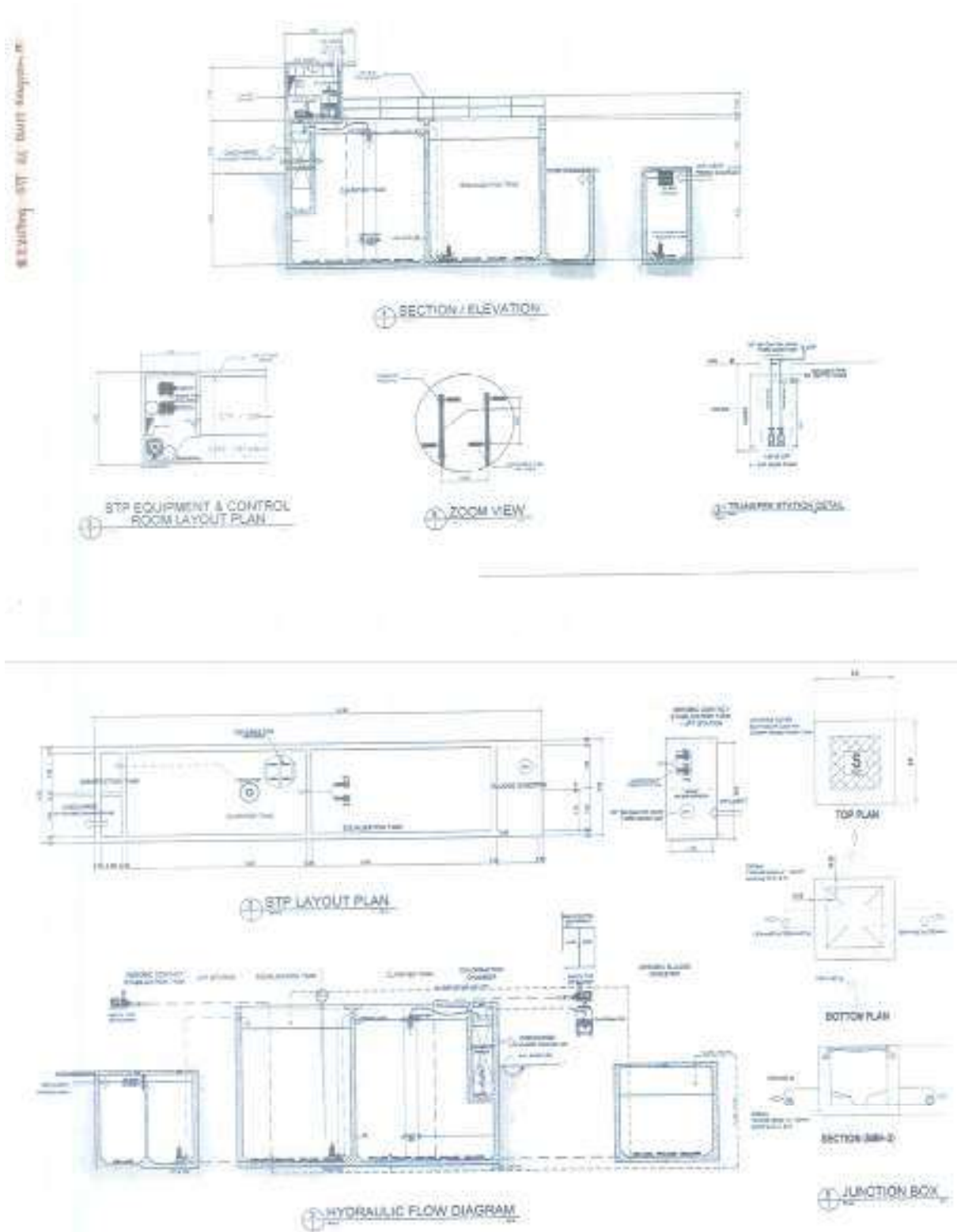
Approved by:


DENNIS DAYAO L. ORDOÑA, MD
Medical Center Chief II

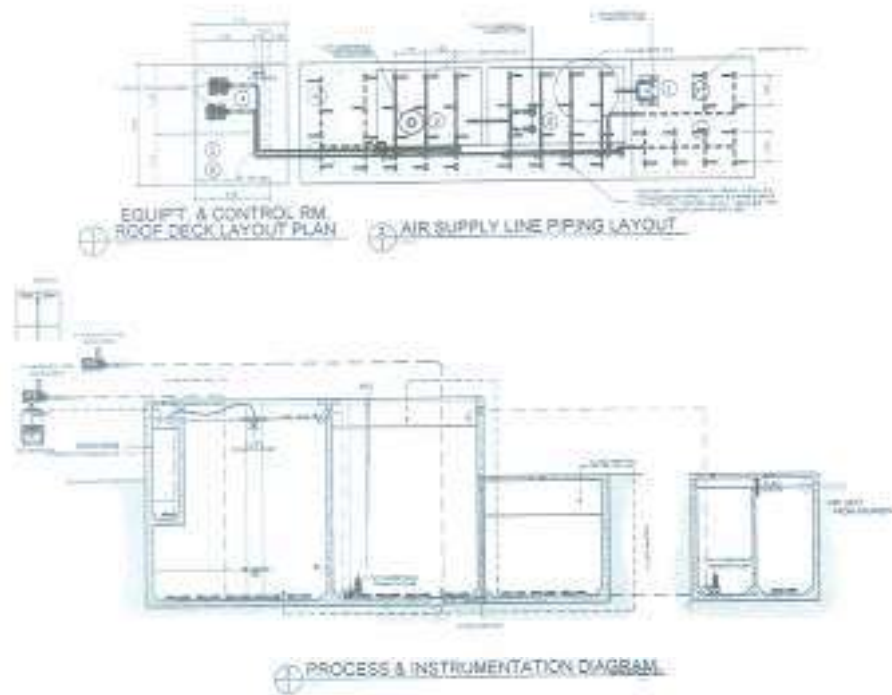
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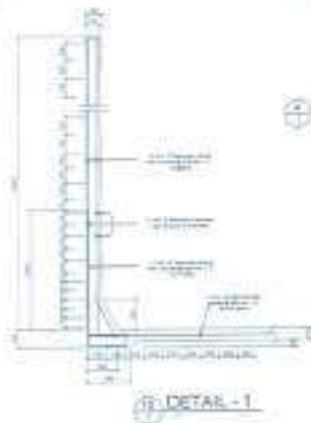
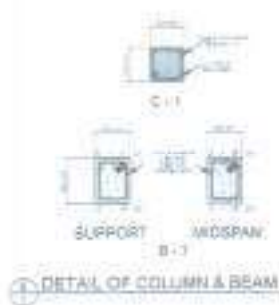
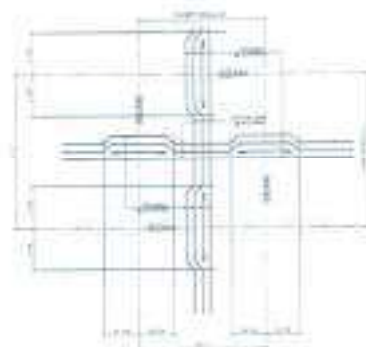
Section VII. Drawings

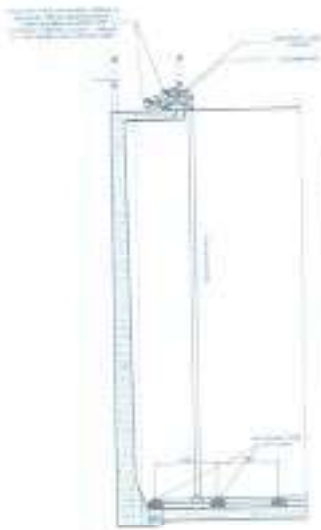






SCHEDULE OF SLAB, Thickness = 150 mm.				
MARK	LONG SPAN REINFORCEMENT & SUPPORT	SHORT SPAN REINFORCEMENT & SUPPORT	REMARKS	
S-1	1000 mm	1000 mm	1000 mm	
S-2	1000 mm	1000 mm	1000 mm	





ALL WOOD & METAL ARE COATED INTERNALLY
WITH AN EPOXY RESIN FOR CORROSION RESISTANCE
AND SHALL BE 20' DIA. MIN.

DETAIL M-1

ITEM	QTY	CAPACITY	DESCRIPTION
(1) LIFT STATION PUMP	2 - UNITS	50 HP	SUBMERSIBLE PUMP, 200V, 3 PH, 60 HZ
(2) EQ TANK TRANSFER PUMP	2 - UNITS	50 HP	SUBMERSIBLE PUMP, 200V, 3 PH, 60 HZ
(3) BOREWATER TRANSFER PUMP	1 - UNIT	50 HP	SUBMERSIBLE PUMP, 200V, 3 PH, 60 HZ
(4) AIR BLOWER	2 - UNITS	50 HP	ROOTS TYPE AIR BLOWER, 220V, 3 PH, 60 HZ
(5) CHLORINATOR DOSING PUMP	1 - UNIT	1/4 HP	METERING PUMP 450 GPM, 1/2 TPA, 60 HZ
(6) CHEMICAL MIXER	1 - UNIT	1/2 HP	CHEMICAL STIRrer IN STAINLESS STEEL SHAFING AND IMPELLER COATED WITH P.V.C. COAT, 110 RPM

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.



Project Name: **Design And Build Services for the Upgrading of Sewage Treatment Plant (Rehabilitation of Old STP and Construction of New 150CMD STP)**
Location of the Project: **MMWGH Compound, Mariveles, Bataan**

BILL OF QUANTITIES

Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)
SPL.	GENERAL REQUIREMENT - Design Cost - Permit Cost	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____
I	CIVIL/ STRUCTURAL WORKS - Clearing and Grubbing - Removal of structures and obstructions - Structure Excavation - Embankment - Reinforced Concrete - Portland Cement - Metal Reinforcement	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____
II	SEWER LINE	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____



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Project Name: **Design And Build Services for the Upgrading of Sewage Treatment Plant (Rehabilitation of Old STP and Construction of New 150CMD STP)**
Location of the Project: **MMWGH Compound, Mariveles, Bataan**

III	ELECTRICAL - Conduits, Boxes and Fittings - Wires and Wiring Devices - Power Load Center, Switchgear and Panel Boards	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____
IV	PROTECTIVE WORKS AND ACCESSORIES	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____
V	ELECTROMECHANICAL WORKS/ MAJOR EQUIPMENT/ DEVICES/ ACCESSORIES	1.0	1s.	In words: Pesos _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ In figures: Php _____ _____ _____

Total Bid Amount in Figures: _____

Total Bid Amount in Words: _____

CONTRACTOR/BIDDER

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) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- ☐ (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;
 - ☐ d. Duly Signed Manpower Utilization Schedule
 - ☐ e. Duly Signed Key Personnel Certificate/Contract of Employment
 - ☐ f. Duly Signed Key Personnel Bio-Data with PRC License/Accreditation, Latest Professional Tax Receipt (PTR)
 - ☐ g. Duly Signed Construction Schedule & S-Curve
 - ☐ h. Duly Signed Narrative Description of Construction Methods
 - ☐ i. Duly Signed Construction Safety and Health Program.
 - ☐ j. Value Engineering analysis of design and construction method.
 - ☐ k. Preliminary Conceptual Design Plans in accordance with the degree of details specified by the Procuring Entity.
 - ☐ l. Recent acceptable Result of Laboratory Analysis (ROLA) for effluent parameters adhering to the parameters set by DENR-EMB (should match with the parameters stated in the Terms of Reference) of the proposed design.

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

Class "B" Documents

- ☐ (j) 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.

Additional Documentary Requirements

- ☐ (k) Certificate of Site Inspection

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

- ☐ (m) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- ☐ (n) 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
- ☐ (o) Cash Flow by Quarter.

Note: Any missing document in the above-mentioned checklist is a ground for outright rejection of the bid.

Post Qualification Documents

- ☐ 1. BIR Form 2303 (BIR Registration Certificate)
- ☐ 2. Business and Income Tax Return

Note: It is encouraged to submit the above-mentioned Post Qualification documents during Bid Opening to expedite the bidding process.

Requirements if Awarded the Contract

1. Cash or Letter of Credit issued by a Universal or Commercial Bank: Provided, however, That the Letter of Credit shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. – Five percent (5%) of the Total Contract Price.
or
2. Bank guarantee confirmed by a Universal or Commercial Bank. – Ten percent (10%) of the Total Contract Price.
or
3. Surety bond callable upon demand issued by GSIS or a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security. – Thirty percent (30%) of the Total Contract Price



TERMS OF REFERENCE

DESIGN AND BUILD SERVICES FOR THE UPGRADING OF SEWAGE TREATMENT PLANT (REHABILITATION OF OLD STP AND CONSTRUCTION OF NEW 150CMD STP)

I. BACKGROUND AND RATIONALE:

Pursuant to the provisions of the Clean Water Act of 2004 – An Act providing for a comprehensive water quality management and for other purposes, the state shall pursue a policy of economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine waters.

This Act shall apply to water quality management in all water bodies, provided, that it shall primarily apply to the abatement and control of pollution from land-based sources, provided further, that the water quality standards and regulations under this Act shall be enforced irrespective of sources of pollution.

II. PROJECT OBJECTIVES:

- A. To comply with the provisions of RA 9275 (An Act Providing for the Comprehensive Water Quality Management and for other purposes) known as Clean Water Act of 2004;
- B. To improve the Sewerage System Network of the Hospital, connecting the rehabilitated old STP of 150CMD to New 150CMD STP to have a combined capacity of 300CMD.
- C. To make MMWGH compliant to RA 9275 and PD 1586 or the Philippines Environmental Impact Statement System.

III. DELIVERABLES:

- A. Schematic diagram based on existing site conditions and development plan.
- B. Detailed Architectural and Engineering Design (DAED), Piping and Instrumentation Diagram (P&ID), Process Flow Diagram, Logic Diagram (if applicable), Detailed Bill of Quantities and Cost Estimates, Technical Specifications, and Design Computations.
- C. Proof that the proposed technology adheres to EMB's set parameters for water quality guidelines (Site previously installed with the same technology and their recent ROLA for the parameters which corresponds to MMWGH's)
- D. Supply of electrical equipment/devices, electro-mechanical works, electrical works including main feeder line and tapping to emergency power and all necessary works to make the STP functional and operational;

Department of Health
Central Luzon Center for Health Development
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL
P. Monroe Street, Poblacion, Mariveles, Bataan, Philippines, 2105
Mobile: 0968-8525-604; Office of the COH: 0968-852-6726 mail@mmwgh.gov.ph mmwgh.gov.ph

- E. Upgrading of existing Sewage System Network including excavation, chipping works, restoration, junction boxes/Manholes (w/ cast iron cover sealed type), installation of pipes and fittings (150mm diameter minimum) to connect all the existing septic tanks within the hospital to the STP facility;
- F. Training of STP operator/s to meet the minimum requirements:
 - Operations and maintenance (technology) of the STP
 - To conduct the various tests on wastewater samples. Must attain passing results based on the standard parameters issued by DENR-EMB under DAO 2016-08 & 2021-19.
 - Knowledge on working/operating procedures of electro-mechanical components installed in the treatment plant.
- G. Provision of Operation and Maintenance Manual for the Sewage Treatment Plant;
- H. Two (2) year warranty on labor and parts on Electro-Mechanical equipment, parts and system;
- I. One (1) year monitoring of start-up operations;
- J. Identification and general information of the vendor of spare parts within the Philippines, preferably within Metro Manila or in the local area.
- K. Old STP and New STP will have separate discharge points
- L. Permits (2 Discharge permits for old and new STP, and other applicable permits if needed)
- M. Documents needed for application of Discharge Permit (Engineer's Report, Water Balance Report)
- N. As Built Plan of the project
- O. One year inclusion of chemicals / other consumables to properly operate both STPs.

IV. SEWAGE TREATMENT FACILITY REQUIREMENTS:

A. EFFLUENT STANDARD PARAMETERS:

The wastewater effluent from the Sewage Treatment Plant (STP) shall meet the Effluent Standard set by DENR per Administrative Order No. 2016-08 and DAO 2021-19 and as reflected in MMWGH's Discharge Permit last 2024 as follows:

However, once the new Discharge Permit applied is in effect, these parameters may or may not be changed and operation must be adjusted accordingly.

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B. PROCESS

The wastewater to be discharged from the plant has to be treated by any up-to-date technology available.

The design/technology must be adherent to the latest effluent parameters set by DENR-EMB for hospitals.

The existing STP's technology is a Sequential Batch Reactor, on which the technology must be rehabilitated and upgraded to a newer technology, leaving the structure intact to ensure compliance to the latest DAO of EMB.

C. DESIGN CAPACITY OF THE UPGRADING OF STP

The proposed upgrade is designed to treat wastewater with the estimated capacity of a combined 300 cu. m/ day of the existing STP and to be constructed STP.

The design must have a sampling collection point on the upstream and downstream of the STPs, with corresponding flow meters on both.

D. PRE-PROCESS OPERATION

Before the conduct of actual process operation of the plant, the commissioning procedures have to be followed, including the commissioning and test run of equipment, pumps and other mechanical equipment. In all these procedures, the designer-contractor shall be responsible up to the start-up operation and will assist in the monitoring of parameters.

E. PROCESS START-UP

Start-up of the sewage treatment plant shall proceed with the presence of the Pollution Control Officer, hospital representatives/ staff in charge of the operation/ engineers.

F. PLANT MONITORING

When the STP is in operation, the parameters listed below shall be monitored on a quarterly basis including waste water analysis for the purpose of compliance with the regulatory body of the government, DAO 2016-08 & 2021-19 The corresponding Summary Monitoring Report shall be submitted to the Pollution Control Officer of the hospital. The contractor will monitor the STP's operation and provide Results of Laboratory Analysis (ROLA) of effluent quarterly within the one (1) year warranty of the project. The effluent parameters to be monitored will be reflected once the newly applied Discharge Permit is in effect.

G. PLANT MAINTENANCE

Department of Health
Central Luzon Center for Health Development
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There has to be routine maintenance of equipment and items found in the STP including the electric motors, bearings, valves, seals, drives, generators, use of lubricants and protective coatings. The contractor shall perform overall quarterly preventive maintenance of the STP within the one (1) year warranty of the project.

H. SAFETY AND HEALTH

In the operation of STP, safety and health have to be given utmost importance. The responsibility for health and safety lies not only with the top management but also with the supervisor and staffs.

V. ELEGIBILITY REQUIREMENT

A. BASIC

1. The eligibility requirements for Design and Build Scheme shall comply with the applicable provisions of Section 12.1 (a) of the ITB and 12.1 (a) of the BDS of this bidding document.
2. A modified set of requirements integrating eligibility documents and criteria for infrastructure projects and consulting services shall be adopted in accordance with Annex G - Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects Annex "G" of IRR of RA 9184
3. The Design and Build Contractor must have completed and turned over projects similar to the proposed project of at least fifty percent (50% of the ABC).

B. SPECIALIZED

1. The contractor shall have the minimum number of professionals for the project as shown below for:
 - a. Project Manager
 - i. Licensed Engineer or Architect
 - ii. At least 10 years of experience in construction management
 - iii. Good oral and written communication skills
 - b. Civil Engineer
 - ii. Licensed Structural Engineer & Civil Engineer
 - iii. Preferably at least 5 years in experience
 - c. Electrical Engineer
 - ii. Licensed Professional Electrical Engineer
 - iii. Preferably at least 5 years in experience
 - b. Mechanical Engineer
 - i. Licensed Professional Mechanical Engineer

Department of Health
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- ii. Preferably at least 10 years' experience in hospital and hospital-related projects
- d. Sanitary Engineer
 - i. Licensed Sanitary Engineer
 - ii. Preferably at least 10 years in experience
- e. CADD Operator
 - i. At least Bachelor's Degree in Architecture or Engineering
- f. Materials Engineer
 - i. Licensed Engineer
 - ii. DPWH Accredited
- g. Quality Control Officer
 - i. Licensed Architect/Engineer
- h. Pollution Control Officer
 - i. DENR -EMB accredited Pollution Control Officer

VI. APPROVED BUDGET COST

The approved budget cost for the project is **Twenty-Five Million Pesos (P25,000,000.00)**

Construction of New 150 CMD-STP	15,200,000.00
Rehabilitation of Existing STP	9,800,000.00
Total	25,000,000.00

VII. TIME FRAME:

The overall duration of the project is 180 Calendar Days, including design proposal, construction, commissioning, effluent analysis, and up to turnover.

Prepared:

sgd.

MEYNARD ANTHONY V. BANZON, ECE
Engineer II/ Pollution Control Officer

Checked:

sgd.

MELVIN JAN A. YABUT, CE, MPA
Engineer IV

Recommending Approval:

sgd.

VINCENT A. ISIP, MPA
Chief Administrative Officer

Approved by:

sgd.

DENNIS DAYAO L. ORDOÑA, MD
Medical Center Chief II

Results of Analyses

Mariveles Mental Wellness & General Hospital

P. Monroe St., Poblacion, Mariveles, Bataan
Contact No.: 09321968964

SN: F00131643.002



Date Received: 12/10/2024

Project Name: Not Supplied
Attention: Mr. Melvin Jan A. Yabut, CE, MPA

Lab No.: P00163318



Test Description	Results	Units	Test Methods	Date Analyzed	By
Sample No.: P00163318-01			DateSampled: 12-10-24 10:14		
Sample ID: STP Effluent			Matrix: Wastewater		
-Microbiology-					
Fecal Coliforms	2.0	MPN/100mL	Multiple Tube Fermentation Technique (SMEWW 9221 E)	12/11/24	KBS
-Wet Chemistry-					
pH, onsite	7.5	-	Electrometric Method (SMEWW 4500-H+ B)	12/10/24	-
Temperature, onsite	30.9	°C	Laboratory & Field Method (SMEWW 2550 B)	12/10/24	-
Color @ pH = 7.5	25	TCU	Visual Comparison Method (SMEWW 2120B)	12/12/24	MPT
Biological Oxygen Demand	1	mg/L	5-Day BOD Test (SMEWW 5210 B)	12/10/24	WCN
Surfactants (MBAS as LAS, MW=348.48 g/mol)	0.4	mg/L	Anionic Surfactants as MBAS (SMEWW 5540C)	12/12/24	WBD
Total Suspended Solids	17	mg/L	Gravimetric, Dried at 103 - 105 °C (SMEWW 2540D)	12/13/24	MSD
Oil and Grease	0.9	mg/L	Liquid - Liquid, Partition - Gravimetric Method (SMEWW 5520B)	12/20/24	PJAA
Ammonia as NH3-N	0.3	mg/L	Phenate Method (SMEWW 4500-NH3 F)	12/12/24	HRTV
Nitrate as Nitrate - N	3.5	mg/L	Colorimetric - Brucine (USEPA 352.1)	12/11/24	HRTV
Phosphate - P	6.7	mg/L	Stannous Chloride Method (SMEWW 4500-P D)	12/11/24	CMP

MPN = Most Probable Number

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



Results of Analyses

Mariveles Mental Wellness & General Hospital

P. Monroe St., Poblacion, Mariveles, Bataan
Contact No.: 09321968964

Project Name: Not Supplied
Attention: Mr. Melvin Jan A. Yabut, CE, MPA

SN: F00128184.001



Date Received: 09/19/2024

Lab No.: P00159734



Test Description	Results	Units	Test Methods	Date Analyzed	By
Sample No.: P00159734-01			DateSampled: 09-19-24 10:45		
Sample ID: Effluent			Matrix: Wastewater		
-Microbiology-					
Fecal Coliforms	120	MPN/100mL	Multiple Tube Fermentation Technique (SMEWW 9221 E)	09/19/24	TNCR
-Wet Chemistry-					
pH, Laboratory	7.5	-	Electrometric Method (SMEWW 4500-H+ B)	09/20/24	SMTA
Temperature, Laboratory	25.0	°C	Laboratory & Field Method (SMEWW 2550 B)	09/20/24	SMTA
Color @ pH = 7.8	25	TCU	Visual Comparison Method (SMEWW 2120B)	09/20/24	MPT
Biological Oxygen Demand	2	mg/L	5-Day BOD Test (SMEWW 5210 B)	09/20/24	SMTA
Surfactants (MBAS as LAS, MW=348.48 g/mol)	0.2	mg/L	Anionic Surfactants as MBAS (SMEWW 5540C)	09/20/24	WBD
Total Suspended Solids	3.3	mg/L	Gravimetric, Dried at 103 - 105 °C (SMEWW 2540D)	09/20/24	MSD
Oil and Grease	1.9	mg/L	Liquid - Liquid, Partition - Gravimetric Method (SMEWW 5520B)	09/24/24	SEZS
Ammonia as NH3-N	0.06	mg/L	Phenate Method (SMEWW 4500-NH3 F)	09/21/24	HRTV
Nitrate as Nitrate - N	6.4	mg/L	Colorimetric - Brucine (USEPA 352.1)	09/20/24	HRTV
Phosphate - P	3.8	mg/L	Stannous Chloride Method (SMEWW 4500-P D)	09/20/24	CMP

MPN = Most Probable Number

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



Results of Analyses

Mariveles Mental Wellness & General Hospital

P. Monroe St., Poblacion, Mariveles, Bataan
Contact No.: 09321968964

SN: F00123741.001

Date Received: 06/04/2024

Project Name: Not Supplied
Attention: Engr. Meynard Anthony V. Banzon

Lab No.: P00155185

Test Description	Results	Units	Test Methods	Date Analyzed	By
Sample No.: P00155185-01			DateSampled: 06-04-24 10:20		
Sample ID: STP Effluent			Matrix: Wastewater		
-Microbiology-					
Fecal Coliforms	920,000	MPN/100mL	Multiple Tube Fermentation Technique (SMEWW 9221 E)	06/04/24	TNCR
-Wet Chemistry-					
pH, onsite	7.4	-	Electrometric Method (SMEWW 4500-H+ B)	06/04/24	-
Temperature, onsite	29.8	°C	Laboratory & Field Method (SMEWW 2550 B)	06/04/24	-
Color @ pH = 8.7	80	TCU	Visual Comparison (SMEWW 2120B)	06/04/24	MPT
Biological Oxygen Demand	76	mg/L	5-Day BOD Test (SMEWW 5210 B)	06/05/24	SMTA
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.4	mg/L	Anionic Surfactants as MBAS (SMEWW 5540C)	06/05/24	WBD
Total Suspended Solids	39	mg/L	Gravimetry (SMEWW 2540 D)	06/06/24	MSD
Oil & Grease	2.7	mg/L	Gravimetry (n-Hexane Extraction) (SMEWW 5520 B)	06/09/24	SEZS
Ammonia - N	6.3	mg/L	Phenate Method (SMEWW 4500-NH3 F)	06/05/24	HRTV
Nitrate - N	0.3	mg/L	Colorimetry - Brucine (EPA 352.1)	06/05/24	HRTV
Phosphate - P	0.07	mg/L	Stannous Chloride Method (SMEWW 4500-P D)	06/05/24	CMP

MPN = Most Probable Number

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



Results of Analyses

Mariveles Mental Wellness & General Hospital

P. Monroe St., Poblacion, Mariveles, Bataan
Contact No.: 09321968964

SN: F00120953.001



Date Received:

03/20/2024

Lab No.: P00152234



Project Name: Not Supplied

Attention: Mr. Meynard Anthony Banzon

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00152234-01			Date Sampled: 03-20-24 11:06			
Sample ID: Effluent			Matrix: Wastewater			
-Microbiology-						
Fecal Coliforms	1,300,000	MPN/100mL	Multiple Tube Fermentation Technique (SMEWW 9221 E)	03/21/24	HBS	
-Wet Chemistry-						
pH, onsite	7.4	-	Electrometric Method (SMEWW 4500-H+ B)	03/20/24	-	
Temperature, onsite	29.2	°C	Laboratory & Field Method (SMEWW 2550 B)	03/20/24	-	
Color	40	TCU	Visual Comparison (SMEWW 2120B)	03/21/24	MPT	
Biological Oxygen Demand	85	mg/L	5-Day BOD Test (SMEWW 5210 B)	03/22/24	SMTA	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.6	mg/L	Anionic Surfactants as MBAS (SMEWW 5540C)	03/21/24	RLCL	
Total Suspended Solids	21	mg/L	Gravimetry (SMEWW 2540 D)	03/23/24	MSD	
Oil & Grease	2.4	mg/L	Gravimetry (n-Hexane Extraction) (SMEWW 5520 B)	04/08/24	WBD	
Ammonia - N	6.5	mg/L	Phenate Method (SMEWW 4500-NH3 F)	04/05/24	HRTV	
Nitrate - N	0.4	mg/L	Colorimetry - Brucine (EPA 352.1)	03/21/24	HRTV	
Phosphate - P	5.2	mg/L	Stannous Chloride Method (SMEWW 4500-P D)	03/21/24	CMP	

>>> end of result set for Sample No.:P00152234-01 <<<

>>> end of result set for Lab No.:P00152234; Total no. of sample analyzed: 1 <<<

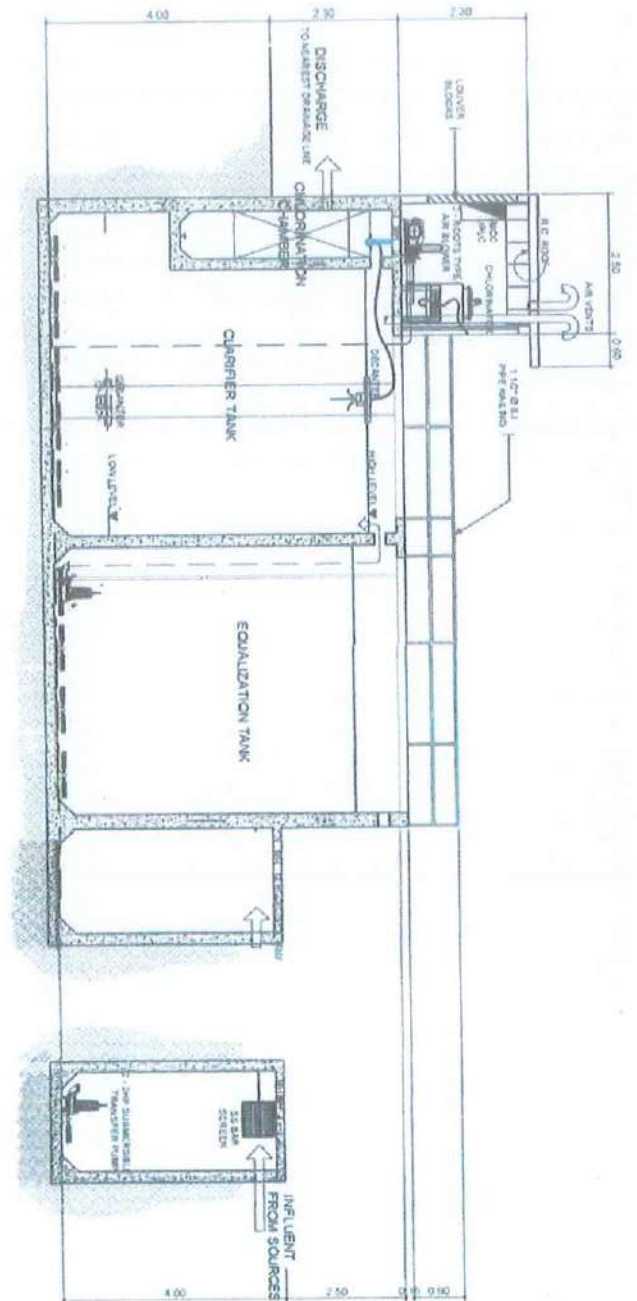
MPN = Most Probable Number

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

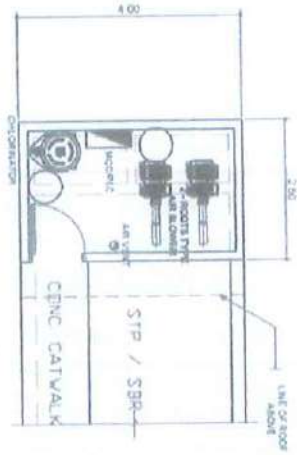
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



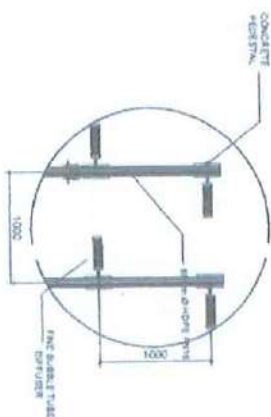
* Existing STP as built diagram *



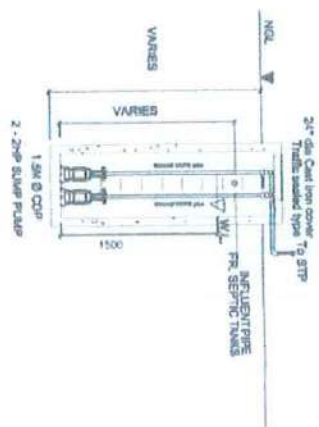
4 SECTION / ELEVATION



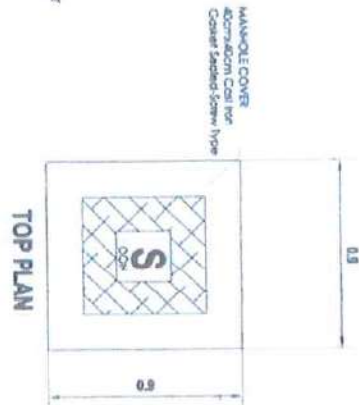
5 STP EQUIPMENT & CONTROL ROOM LAYOUT PLAN



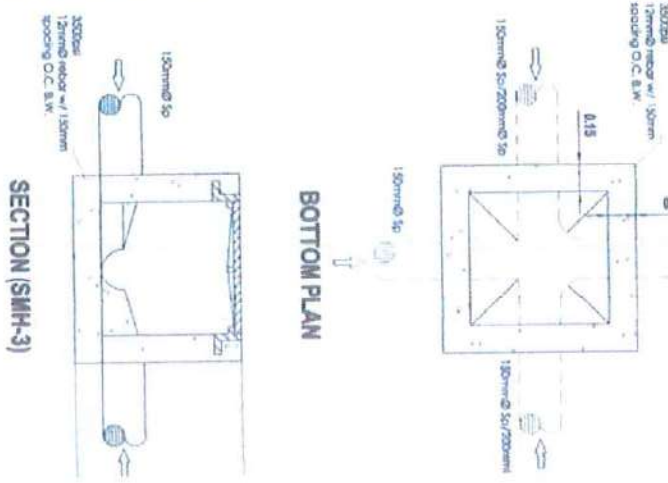
6 ZOOM VIEW



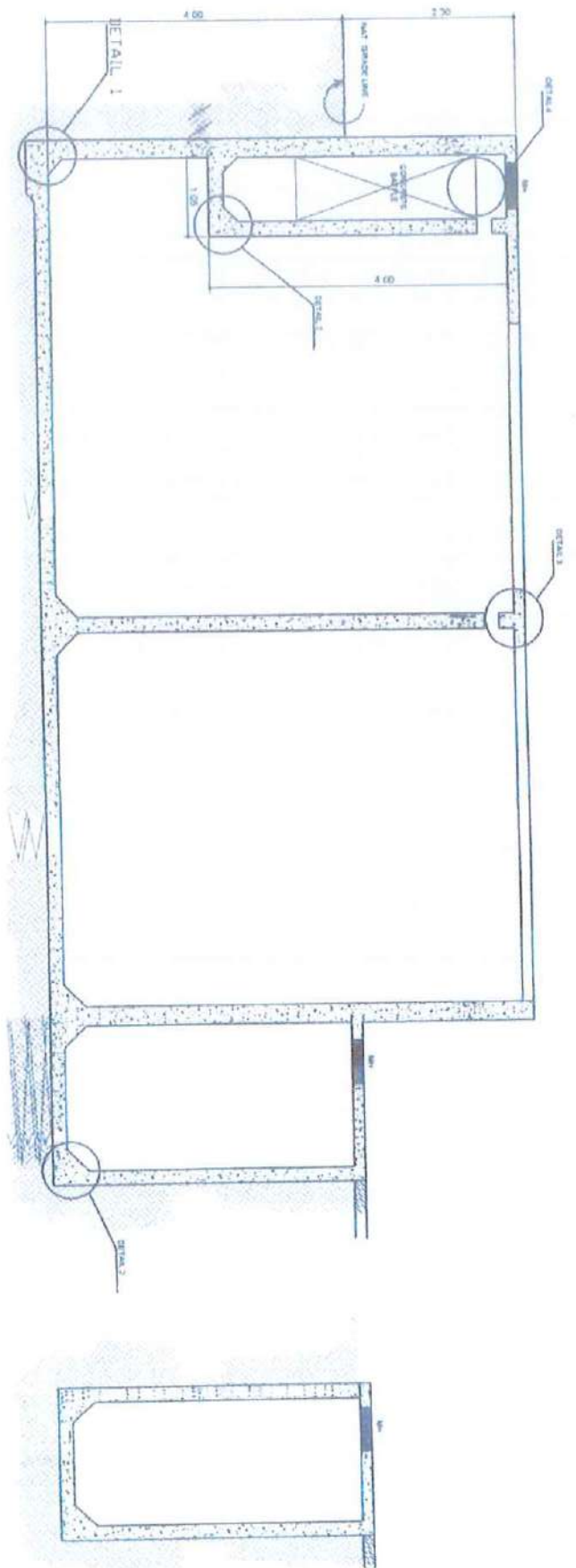
8 TRANSFER STATION DETAIL



BOTTOM PLAN

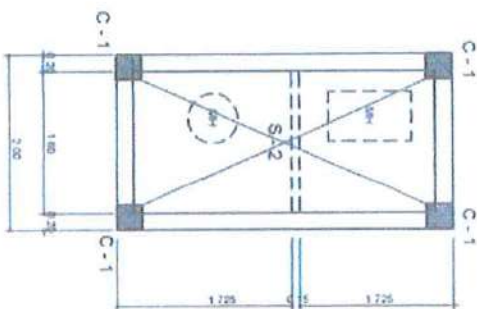
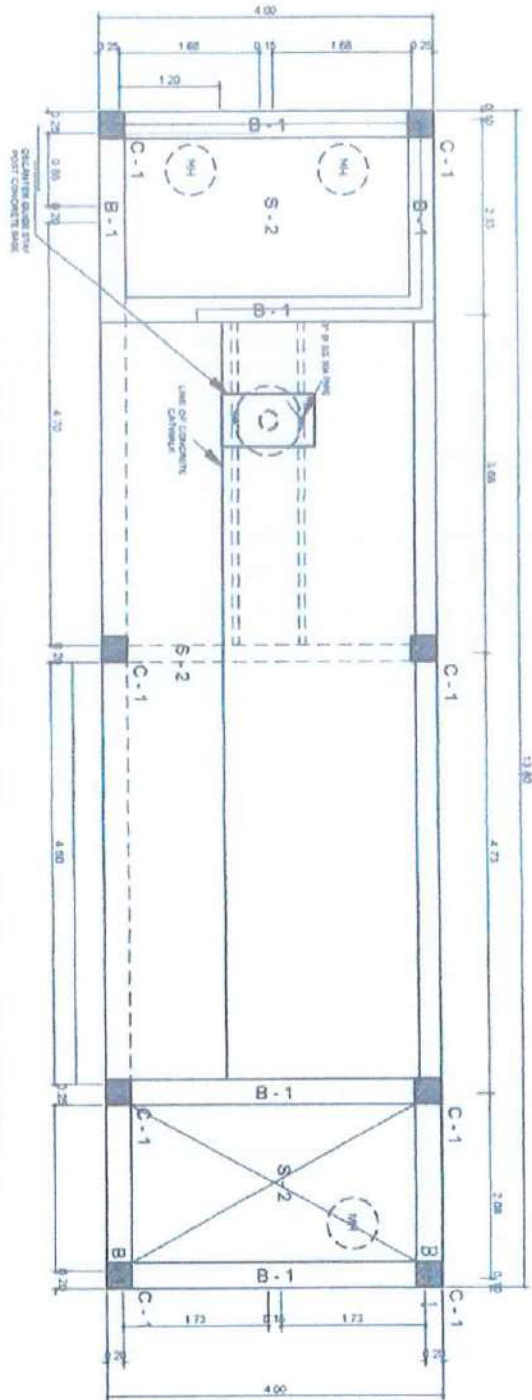
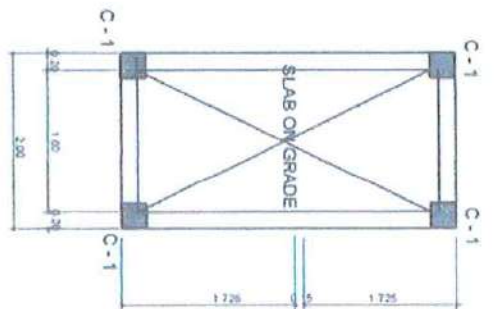
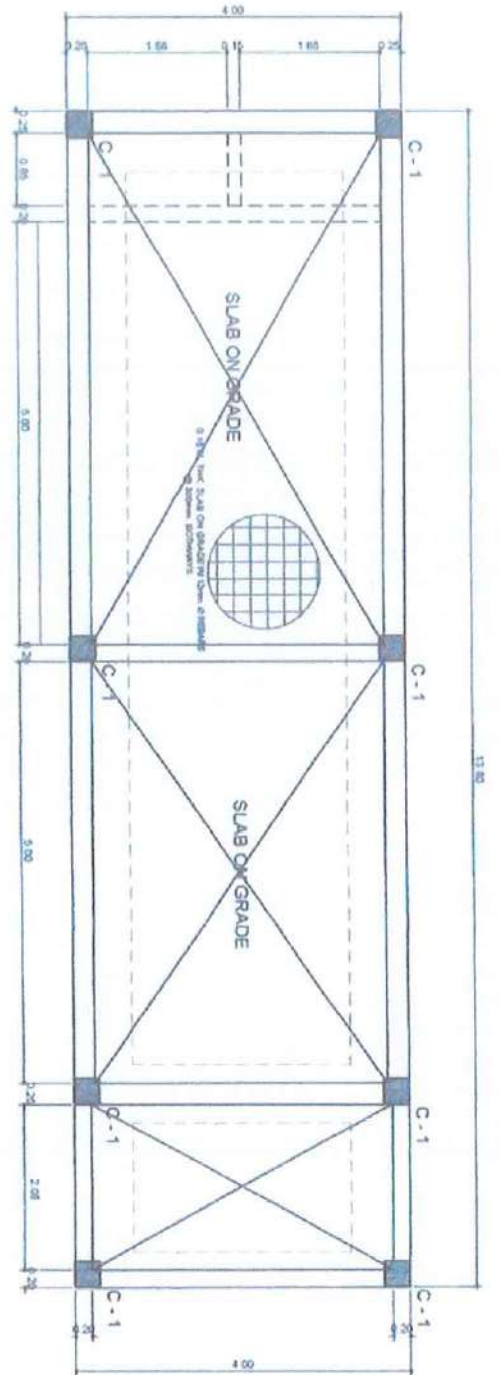


5 JUNCTION BOX



3 SECTION "A" - "A"

FOUNDATION PLAN



2 CONCRETE COVER SLAB STRUCTURAL LAY-OUT PLAN

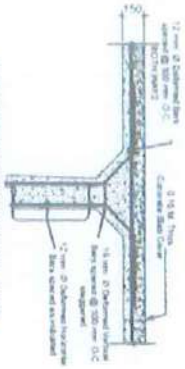


SCHEDULE OF SLABS, thickness = 150 mm.					
MARK	LONG SPAN REINFORCEMENT		SHORT SPAN REINFORCEMENT		REMARKS
	⊗ SUPPORT	⊗ MID SPAN	⊗ SUPPORT	⊗ MID SPAN	
S - 1	12 ⊗ 0.15 M OC	12 ⊗ 0.20 M OC	12 ⊗ 0.15 M OC	12 ⊗ 0.20 M OC	TWO WAY
S - 2	12 ⊗ 0.20 M OC	12 ⊗ 0.20 M OC	12 ⊗ 0.20 M OC	12 ⊗ 0.20 M OC	TWO WAY & BEAM END CONNECTION



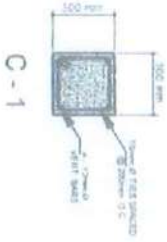
CONCRETE BAFFLE DETAILS

7
DETAIL - 4



CONCRETE CATWALK WALL SLAB CONNECTION DETAILS

8
DETAIL - 3



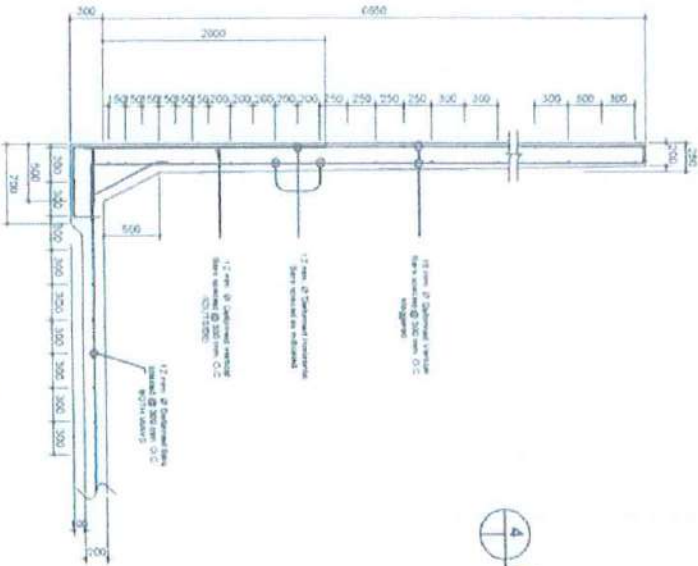
C - 1



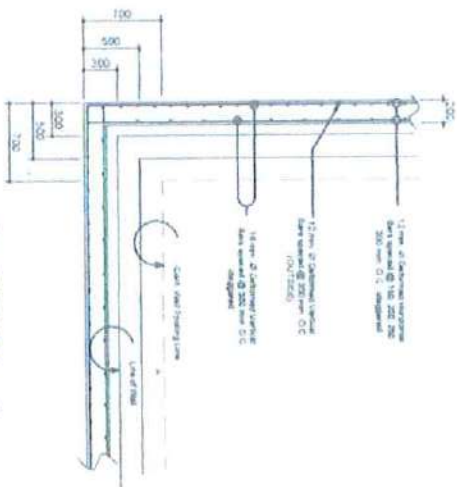
SUPPORT MIDSPAN

B - 1

5
DETAIL OF COLUMN & BEAM

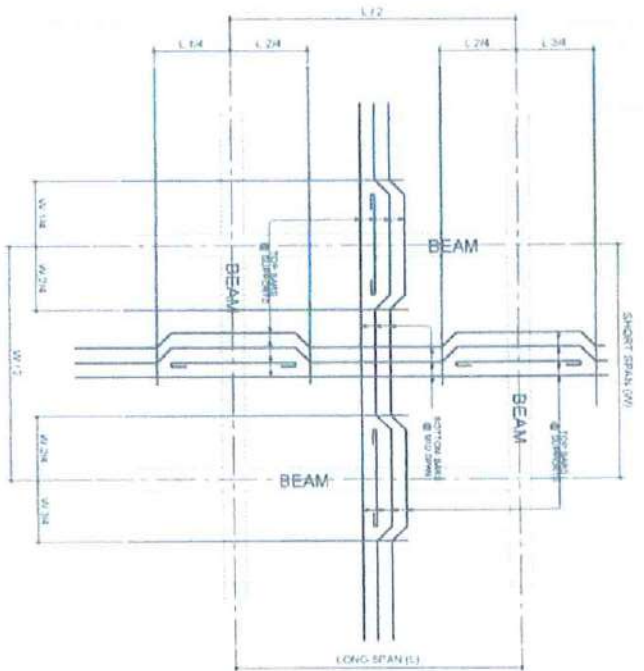


10
DETAIL - 1



9
DETAIL - 1

4
DETAIL OF TWO WAY SLAB - S-1 & S-2



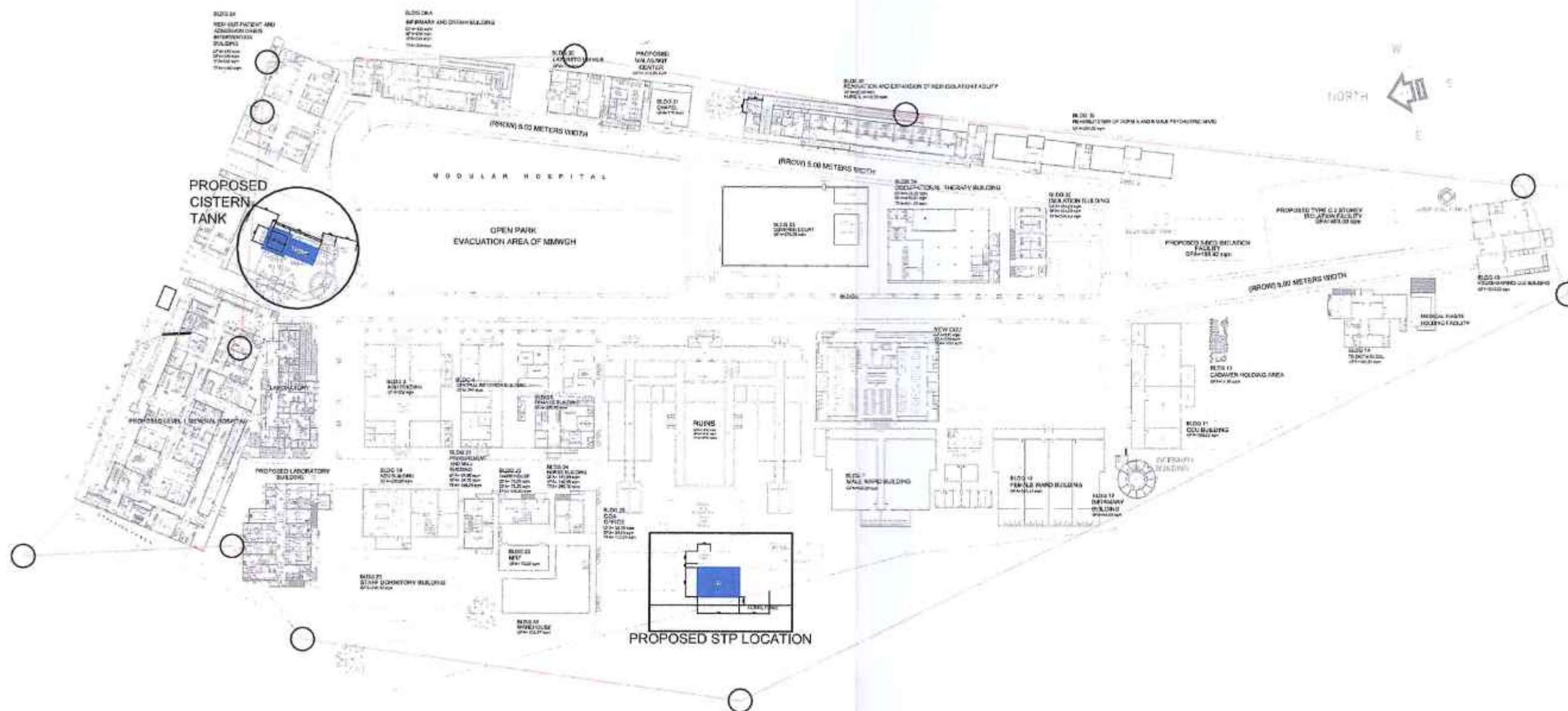
AIR HEADER B.I. PIPES, AIR CONTROL BUTTERFLY VALVES (UNWETTED PARTS) PVC BLUE PIPES AND FINE BUBBLE TUBE DIFFUSER ASSEMBLY

7
DETAIL M-1

NOTE TO THE
END USER:
Please review the
plan before signing
as approval.

REMARKS:

1. FINAL LOCATION OF CISTERN
TANK AND SEWAGE
TREATMENT PLANT.




NOTE:

Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job. The designer must be notified immediately of any variations from the dimensions and conditions shown by these drawings.

RA 9266 SECTION 33

Drawings and specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the architect whether the object for which they are made is executed or not. It shall be unlawful for any person to duplicate or make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF HEALTH MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL BONBENT, Poblacion, Mariveles, Bataan</p>	<p>PROJECT TITLE</p> <p>CONSTRUCTION OF GENERAL HOSPITAL-CISTERN TANK AND SEWAGE TREATMENT PLANT</p> <p>LOCATION: MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL, P. MONROE ST., POBLACION, MARIVELES BATAAN</p>	<p>DESIGNED BY:</p> <p>AR. PAULO V. PAGUA, UAP ADMIN. OFFICER I</p> <p>DRAWN BY:</p> <p>AR. PAULO V. PAGUA, UAP ADMIN. ASSISTANT I</p>	<p>ARCHITECT</p> <p>AR. PAULO V. PAGUA, UAP ADMINISTRATIVE OFFICER I HEALTH FACILITY DEVELOPMENT UNIT</p> <p>PRC REG. No.: 02446 Validity: 01/1/2024 IAPGA No.: 38888 O.R. No.: 322388 Date: 08/21/2023 PTR No.: 124428 Date: JAN. 12, 2023 Place: MARIVELES, BATAAN TBN: 321-023-824-0000</p>	<p>NOTED BY:</p> <p>CRISTAL GAY F. SUSI ADMINISTRATIVE OFFICER IV PLANNING UNIT</p>	<p>COORDINATED WITH:</p> <p>ENGR. MELVIN JAN A. YABUT ENGINEER IV CIVIL ENGINEERING WORKS, REPAIRS AND MAINTENANCE</p>	<p>RECOMMENDING APPROVAL:</p> <p>VINCENT A. ISIP OFFICER IN CHARGE HOSPITAL OPERATION PATIENT SUPPORT SERVICE</p>	<p>APPROVED BY:</p> <p>MARIA LOURDES L. EVANGELISTA, MD, FPPA MEDICAL CENTER CHIEF II MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL</p>	<p>SHEET CONTENTS</p> <p>AS SHOWN</p> <p>REVISION NO.</p> <p>00 SHEET NO. 01 of</p> <p>DATE PUBLISHED: 1/23/2024</p>
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MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL

P. Monroe Street, Poblacion, Mariveles, Bataan, Philippines, 2105
Mobile: 0968-8525-604; Office of the COH: 0968-852-6726 mail@mmwgh.gov.ph mmwgh.gov.ph



Project Name: **Design And Build Services for the Upgrading of Sewage Treatment Plant (Rehabilitation of Old STP and Construction of New 150CMD STP)**
Location of the Project: **MMWGH Compound, Mariveles, Bataan**

BILL OF QUANTITIES

Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)
SPL	GENERAL REQUIREMENT - Design Cost - Permit Cost	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____ _____
I	CIVIL/ STRUCTURAL WORKS - Clearing and Grubbing - Removal of structures and obstructions - Structure Excavation - Embankment - Reinforced Concrete - Portland Cement - Metal Reinforcement	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____ _____
II	SEWER LINE	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____ _____



Department of Health
Central Luzon Center for Health Development

MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL

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III	ELECTRICAL - Conduits, Boxes and Fittings - Wires and Wiring Devices - Power Load Center, Switchgear and Panel Boards	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____
IV	PROTECTIVE WORKS AND ACCESSORIES	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____
V	ELECTROMECHANICAL WORKS/ MAJOR EQUIPMENT/ DEVICES/ ACCESSORIES	1.0	l.s.	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____	In words: Pesos _____ _____ _____ In figures: Php _____ _____ _____

Total Bid Amount in Figures: _____

Total Bid Amount in Words: _____

CONTRACTOR/BIDDER

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

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

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

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

¹ currently based on GPPB Resolution No. 09-2020

representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].

- I. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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

Statement of all Ongoing Government & Private contracts including contracts awarded but not yet started

Business Name : _____

Business Address : _____

Name of Contract/ Project Cost	Date of Contract	Contract Duration	Owner's Name and Address	Kinds of Goods	Date of Delivery	Amount		End user's acceptance or official receipt(s) or sales invoice issued for the contract
						Contract	Value of Outstanding Contract	
<u>Government</u>								
<u>Private</u>								
						Total Cost		

Note: This statement shall be supported with:

- 1 Notice of Award , Contract, NTP, and other docs, if necessary

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____

Statement of all completed Government & private contracts which are similar in nature and complexity to the Contract to be Bid

Business Name : _____
Business Address : _____

Name of Contract/ Project Cost	Date of Contract	Contract Duration	Owner's Name and Address	Kinds of Goods	Date of Delivery	Contract Amount	End user's acceptance or official receipt(s) or sales invoice issued for the contract
Government							
Private							
Note: This statement shall be supported with:							

- 1 Notice of Award, Contract, NTP, and other docs, if necessary

Submitted by : _____
(Printed Name & Signature)
Designation : _____
Date : _____

Statement of Bidder's Single Largest Completed Contract (SLCC)

Business Name : _____

Business Address : _____

Name of Contract/ Project Cost	Date of Contract	Contract Duration	Owner's Name and Address	Kinds of Goods	Date of Delivery	Amount of completed contracts, adjusted by the Bidder	End user's acceptance or official receipt(s) and sales invoice issued for the contract
<u>Government</u>							
<u>Private</u>							
						Total Cost	

Note: This statement shall be supported with:

- 1 Notice of Award, Contract, NTP, and other docs, if necessary

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____