

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Government of the Republic of the Philippines

Province of Albay

CITY OF TABACO

Procurement of Infrastructure Projects

**Supply of Labor, Materials & Equipment
for the Construction of Wastewater
Treatment Facility
Slaughterhouse, San Carlos, Tabaco City**

Contract ID No. 18-11-2020-INFRA

November 20, 2020

**Sixth Edition
July 2020**

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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



Republic of the Philippines
Province of Albay
CITY GOVERNMENT OF TABACO
Tabaco City

Bids and Awards Committee

**Invitation to Bid for
Supply of Labor, Materials, and Equipment for the
Construction of Wastewater Treatment Facility
Slaughterhouse, San Carlos, Tabaco City
Contract ID No. 018-11-2020-INFRA**

1. The *City Government of Tabaco*, through the *General Fund 2019 (Supplemental Budget No. 1-2019, Capital Outlay)* intends to apply the sum of *Four Million Nine Hundred Ninety-Three Thousand Seven Hundred Thirty-Six Pesos and Seventy-Nine Centavos (Php 4,993,736.79)* being the Approved Budget for the Contract (ABC) to payments under the contract for *Supply of Labor, Materials and Equipment for the Construction of Wastewater Treatment Facility, Slaughterhouse, San Carlos, Tabaco City under Contract ID No. 018-11-2020-INFRA*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *City Government of Tabaco* now invites bids for the above Procurement Project. Completion of the Works is required *within 120 calendar days from receipt of Notice to Proceed*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from the *City Government of Tabaco* and inspect the Bidding Documents at the address given below from 9:00 A.M. to 4:00 P.M.
5. A complete set of Bidding Documents may be acquired by interested bidders on *November 20-December 11, 2020* from given address and website/s below *and upon payment of the applicable fee for the Bidding Documents*, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Five Thousand Pesos (P5,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The *City Government of Tabaco* will hold a Pre-Bid Conference on *December 01, 2020, 9:30am* at *BAC Conference Room, Mezz Flr., City Legal Office, 2F Annex Bldg., City Hall, Tabaco City*, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before **9:00AM, December 14, 2020**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **December 14, 2020, 9:30AM** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. **Other Necessary Information:**

Minimum PCAB License Category: General Engineering

Project Size Range: Water Treatment Plant and System – Small B

Minimum Manpower Requirements:

1 Project Manager	1 Project Engineer
1 Mechanical Engineer	1 Civil Engineer
1 Electrical Engineer	2 Certified Welder NC2
1 Construction Foreman	1 Safety Officer
1 First Aider	5 Skilled Worker

Minimum Equipment Required:

1 unit Boom Truck
 1 unit Dropside Elf
 1 unit Service Vehicle
 1 unit Dumptruck
 1 unit Genset
 2 units Welding Machine
 1 unit One Bagger Concrete Mixer
 2 units Concrete Vibrator
 1 unit Jackhammer
 1 unit Plate Compactor
 1 unit Bar Bender
 1 unit Bar Cutter
 1 unit Grinding Machine
 1 Unit Cut-Off Machine
 1 Unit Water Pump
 1 unit Portable Lifting Device
 I unit Air Compressor
 Enough Handtools

11. The **City Government of Tabaco** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

Atty. Jovito Bron Coderis, Jr.
BAC Chairman / City Legal Office
BAC Office / City Legal Office
2F Annex Bldg., Tabaco City Hall, Tabaco City
Email: **bactabaco16@gmail.com**
Website: tabacocity.gov.ph

Engr. Roland B. Garcia
BAC TWG / OIC-GSO
General Services Office
2F Annex Bldg., Tabaco City Hall, Tabaco City

13. You may visit the following websites:

For downloading of Bidding Documents:

www.tabacocity.com.ph
PhilGEPS Website

November 20, 2020

(Sgd.)
ATTY. JOVITO BRON CODERIS, JR.
BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *City Government of Tabaco* invites Bids for the *Supply of Labor, Materials and Equipment for the Construction of Wastewater Treatment Facility, Slaughterhouse, San Carlos, Tabaco City, with Project / Contract ID No. 018-11-2020-INFRA*.

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 2019 in the amount of *Five Million Pesos (Php 5,000,000.00)*.

2.2. The source of funding is LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

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 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 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 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 *March 31, 2021*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

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

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																																																										
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be <i>construction of wastewater treatment facility that passed the EMB DAO 2016-08 Parameters.</i>																																																									
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10.3	PCAB Registration Particular includes the following: Kind of Project and Size Range <i>Water Treatment Plant and System – Small B</i>																																																									
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12	Alternative Bids shall not be accepted.																																																									

15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> a. The amount of not less than <i>Php 99,874.74</i> [<i>two percent (2%) of ABC</i>], 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 <i>Php 249,686.74</i> [<i>five percent (5%) of ABC</i>] if bid security is in Surety Bond.
16	<p>Each Bidder shall submit one (1) original and two (2) copies of the first and second components of its bid. An electronic copy of the bid should also be submitted in <i>PDF file format (Technical and Financial Component) and a Microsoft Excel file format (Financial Component)</i> in a flash drive. Should there be discrepancies, the original copy would prevail.</p>
19.2	<p>Partial bids are not allowed.</p>
20	<p>None</p>
21	<p>Additional contract documents relevant to the Project:</p> <ol style="list-style-type: none"> 1. construction schedule and S-curve/ Bar Chart/ PERT CPM Network Diagram and detailed computation of contract time; 2. manpower schedule; 3. construction methods; 4. equipment utilization schedule; 5. construction safety and health program approved by the DOLE; and 6. Contractor's All Risk Insurance (CARI)

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

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

2. Sectional Completion of Works

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

3. Possession of Site

4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	No sectional completion.
4.1	Upon receipt of Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	Fifteen (15) years.
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within ten (10) calendar days days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <i>[insert amount]</i> .
13	The amount of the advance payment is 15% of the total contract price and schedule of payment.
14	Materials and equipment delivered on the site but not completely put in place shall not be included for payment.
15.1	The date by which operating and maintenance manuals are required is The date by which "as built" drawings are required is
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>[amount in local currency]</i> .

Section VI. Specifications

SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

A. GENERAL NOTE

DENR Administration Order No.2016-08 Water Quality Guidelines and General Effluent standards of 2016. Pursuant to section 19E and 19F of the Republic Act (RA 9275), otherwise known As the Philippine clean Water Act of 2004, and Executive Order 192 (Providing the Reorganization of the Department of Environment and Natural Resources (DENR) dated 10 June 1987, the Department of Environment and Natural Resources (DENR), hereby adopts and promulgates these Water Quality Guidelines (WQG) and General Effluent Standards (GES).

The General Conditions for specific project applies to all work under this section of the specifications. The contractor shall provide all items, articles, materials, operations or methods listed, mentioned or scheduled on the drawings and/or herein including all labor, materials, equipment and incidentals necessary and required for their completion.

B. SCOPE OF WORKS

The following scope of works are included within this project:

1. Process and equipment design of WWTF SBR System with capacity and characteristics as indicated in the design basis.
2. Site clearing and area preparation
3. Soil excavation and compaction works.
4. Construction of embedded reinforced concrete tanks
5. Construction of blower house / control room.
6. Painting works
7. Supply and installation of mechanical equipment, electrical and piping system.
8. Testing, start-up and months commissioning of the wastewater treatment facility equipment and its appurtenances.
9. Training of Personnel from WWTF operation and maintenance procedure.
10. Assistance for securing WWTF discharge permit and preparation of WWTF Engineers Report.

For this specific project excludes the following:

1. Emergency generator.
2. Supply of main feeder line and circuit breaker from the power source to the SBR WWTP Motor Control Center (MCC).
3. Utilities during construction such as power and water.
4. Construction of Septic Tank
5. Maintenance chemicals for wastewater treatment facility such as (GRN222, BIO150, GRN-BAC101, GRN-BIO111 and GRN001).
6. Offsite disposal of sludge during commissioning and after turnover.
7. Operation and maintenance of the treatment facilities after final turn over.

C. METHODOLOGY

The proposed wastewater treatment plant consists of bar screen, oil and grease separator, collecting pit, equalization tank, sequencing batch reactor, aerobic sludge digester, reaction tank, sludge drying bed, filtration system, chlorination system and control system.

BAR SCREEN

A bar screen is installed to remove large solids that may clog the process equipment downstream.

OIL AND GREASE SEPERATOR

This device designed to separate gross amounts of oil and suspended solids from the wastewater effluent of any commercial establishments and other industrial oil water resources.

COLLECTING PIT

A sump pit or collecting pit is a low space that collects often undesirable liquid such as wastewater of leachate.

EQUALIZATION TANK (EQT)

The equalization tank is used to stabilize the variations in flow and influent characteristics. This is too achieved by providing sufficient retention time in the tank and installing a mixing system to ensure uniform effluent quantity at a predetermined flow volume. The tank is also installed with submersible pumps with level switches to regulate the flow going in to the sequencing batch reactor.

SEQUENCING BATCH REACTIR (SBR)

The sequencing batch reactor (SBR) process is the most advanced activated sludge process used today. It is a system that operates by batch and allows microorganism, to biodegrade the fluctuating and high organic matter and converts them to stable gases such as carbon dioxide, nitrogen and water under the aerobic, anoxic and anaerobic conditions. It had combined carbon oxidation and nitrification/denitrification process in the reactor ensuring the total treatment of biological waste. The various operating mode of the SBR are Fill, React and Settle, Decant and Idle. Because of the non-off operation of equipment is inherent in SBR, it therefore allows organic pollutants to undergo a complete cycle, from aerobic oxidation to anaerobic degradation. The SBR shall be installed to provide the biological removal of carbonaceous substances.

AEROBIC SLUDGE DIGESTER (ASD)

The waste sludge from the SBR shall be pumped to the aerobic sludge digester by submersible non-clog pump. The tank shall be aerated by a positive displacement blower that diffuses through non-clog coarse bubble diffusers. After digestion, the volume of volatile suspended solids (digested sludge) shall be reduced/oxidized to

stable forms by about 40% to 50%. The digested sludge shall then be pumped to the dewatering equipment prior to disposal.

REACTION TANK (RT)

A reaction tank is where chemicals like flocculants, coagulants and ph enhancers are injected into the system by mechanical means.

SLUDGE DRYING BED

A sludge drying bed is a shallow tank with a system underdrainage overlaid with filtering media. Liquid sludge is discharge onto the surface of the medium and dewatering occurs as a result of water entering the under-drainage system. Water is also removed from the surface by decantation and evaporation. The layout and construction of sludge drying beds are variable but are mainly influenced by the method of removal of cake, i.e. by hand or by machine. The drainage tile system is usually covered with a layer of gravel, 150mm thick, and this is topped by a layer of sand, 100mm thick, which is replenished when required.

FILTRATION SYSTEM

Carbon filter is made from Activated Carbon and its primary function is the chemical absorption of contaminant and impurities.

CHLORINATION SYSTEM (CS)

Decanted sewage from the SBR will be treated with hypochlorite solution to remove any remaining color and kill-off pathogenic bacteria and coliform.

CONTROL SYSTEM

The operation of the equipment as well as process control will be carried out by a Programmable Logic Control (PLC) system placed in NEMA enclosure control panel. This will detect and signal any equipment operation and failure, and will automatically take action, so that the system may resume operation using the remaining basin. The unit control of each equipment is also provided with manual override.

D. DESIGN BASIS

The process and equipment design of the proposed wastewater treatment facility was based on the following design criteria and parameters.

Design Flow Rate

Unit	Unit	Value
Flow Rate	M3/day	15

E. PERFORMANCE GUARANTEE

Parameter	Unit	Guaranteed Effluent Quality	DENR Set Standards “Class SC In-land Water”
Color	TCU	<150 <150	<150
Temperature	°C	<3	<3
pH	Range	<6.0 9.5	<6.0-9.5
Biochemical Oxygen Demand	mg/L	<50	≤50
Total Suspended Solids	mg/L	<100	<100
Fecal Coliform	MPN/100ml	<400	400
Ammonia as NH3-N	mg/L	<0.5	0.5
Nitrate as NO3-N	mg/L	<14	14
Phosphate	mg/L	<1	1
Oil and Grease	mg/L	<5	≤5
Surfactants	MBAS	<15	<15

F. LIST SUPPLIED ELECTROMECHANICAL EQUIPMENT

- One (1) lot **Bar Screen**
- One (1) lot **Roots Blower** Positive Displacement type, complete with standard accessories,
TEFC electric motor.
- One (1) lot **Activated Carbon Filter System**
- One (1) lot **Transfer Pump**, Submersible non-clog pump
- One (1) lot **Decanter Pump**, Submersible non-clog pump
- One (1) lot **Vertical Pump**
- One (1) lot **WAS pump**, Submersible non-clog pump
- One (1) lot **RAS pump**, Submersible non-clog pump
- One (1) lot **Membrane Diffuser**, Membrane type, fine bubble PVC body with EPDM
Membrane
- One (1) lot **Programmable Logic Control (PLC)**
- One (1) lot **Automated Feeder Pump**
- One (1) lot **Online Ph Controller**
- One (1) lot **Motor Control Center (MCC)**, NEMA standard control panel complete with
Motor controller lights and switches
- One (1) lot **PVC, G.I, B.I pipe**, fittings and saddle clamp connectors

G. EQUIPMENT GUARANTEE

The contractor shall process equipment for a period of one (1) year from the date of acceptance of the wastewater treatment facility.

This warranty is subjected to the following conditions:

- a. All design, system parameters and flow rate of the influent area strictly observed at all times within the specified limit as the data provided in our design;
- b. The equipment shall be properly, maintenance manual and has never been subjected to external damages, overload conditions that may cause its early failure and void the guarantee.

H. Bunkhouse and Other Facilities

All facilities provided by the Contractor shall be near the job site, where necessary and shall conform to the best standard for the required types. On completion of the Contract, the facilities provided by the Contractor including utilities and communication facilities shall revert to the Government including office equipment, apparatus, pieces of furniture, laboratory equipment, etc, unless otherwise specified in the Contract documents.

I. Fabrication / Installation of Billboard

This scope of works includes fabrication and installation of one (1) unit 4' x 8' tarpaulin on 2" x 2" coco lumber frameworks (please refer to the DPWH standard).

J. Occupational Construction Safety and Health

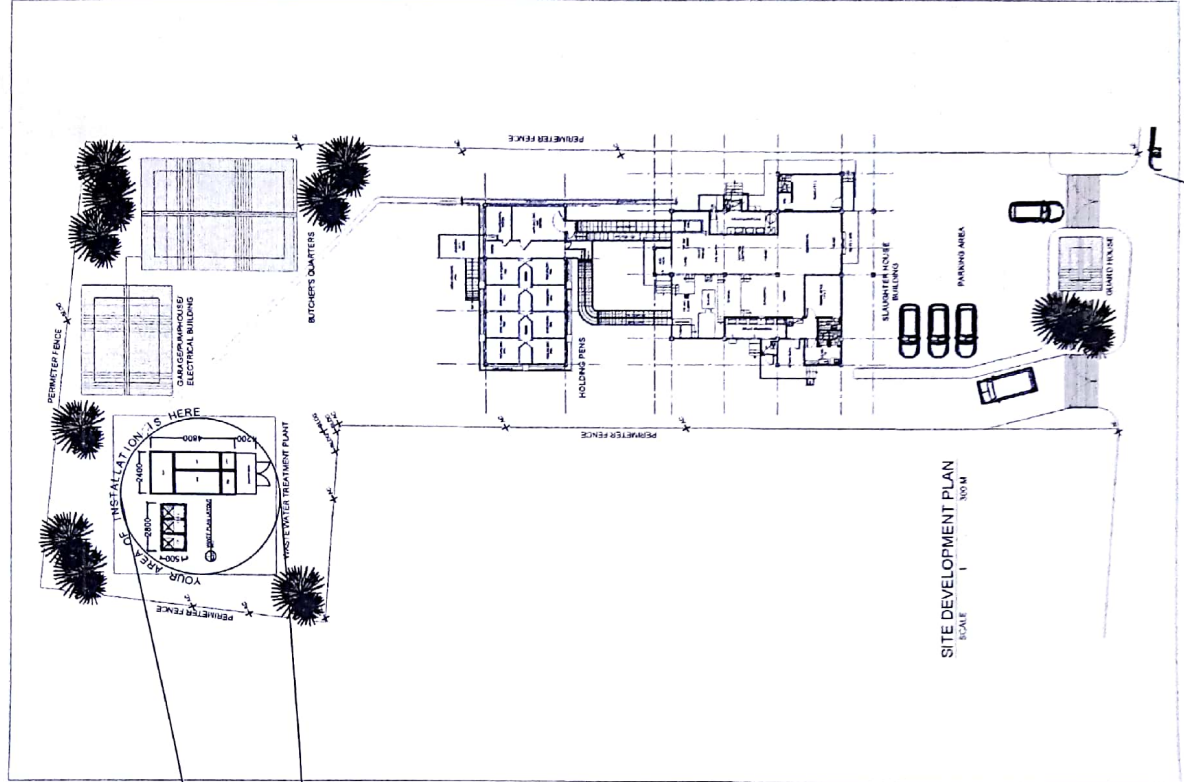
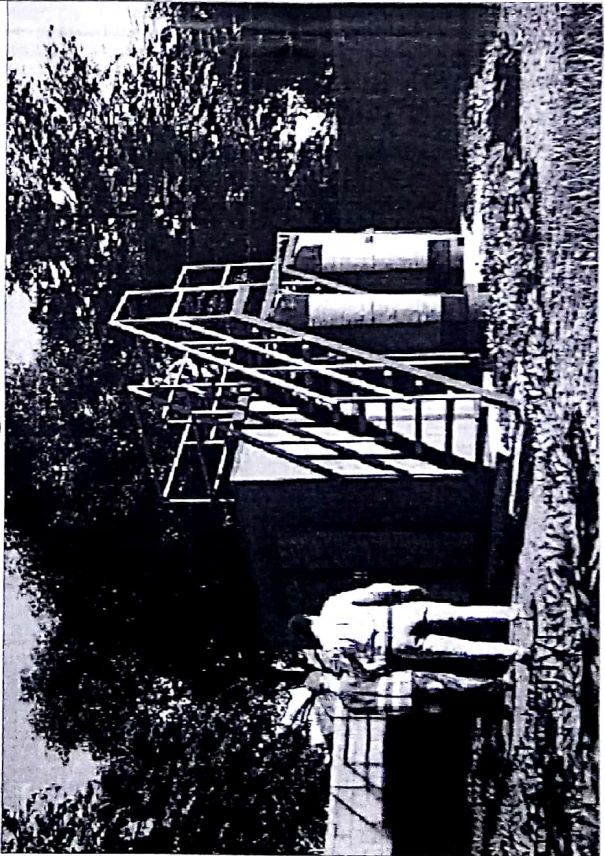
Safety precautions shall be used at all times during the progress of the work. As appropriate, workmen shall be furnished with hard hats, safety shoes, respirators, and any other safety apparel that will reduce the possibility of injury from accidents. All Occupational Safety and Health Act requirements shall be observed.

Section VII. Drawings

Waste Water PAC



LOCATION MAP
SCALE NTS



<p>REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TABACO TABACO CITY-ABAY</p> <p>OFFICE OF THE CITY ARCHITECT/ OFFICE OF THE CITY ENGINEER</p> <p><i>Orlando Ponce, City Hall Annex Building, Tabaco City 4511</i></p>	<p>PROJECT TITLE: CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE</p> <p>LOCATION: BAY CARLOS, TABACO CITY</p>	<p>PREPARED BY: <i>ZERNAN SERRANO</i> ZERNAN SERRANO ENVIRONMENTAL SPECIALIST</p>	<p>CHECKED BY: <i>ROLAND B. GARCIA</i> ROLAND B. GARCIA DIPLOMA - DSO</p>	<p>REVIEWED BY: <i>FRANCO B. RITE</i> FRANCO B. RITE CITY ARCHITECT</p>	<p>RECOMMENDING APPROVAL: <i>DINIO B. BORGALOSA</i> DINIO B. BORGALOSA CIC CITY ENGINEER</p>	<p>APPROVED BY: <i>Hon. CIELO KANGSA LAGMAN-LUSTRO</i> Hon. CIELO KANGSA LAGMAN-LUSTRO CITY MAYOR</p>	<p>CONTROL NO.:</p> <p>SHEET NO.:</p>
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PROJECT TITLE
**CONST. OF WASTE
 WATER TREATMENT FACILITY
 SLAUGHTER HOUSE**

PREPARED BY:
 ZERRIAN ZERRANO
 ENVIRONMENTAL SCIENTIST I

CHECKED BY:
 ROJALYN B. GARCIA
 OIC. QSO

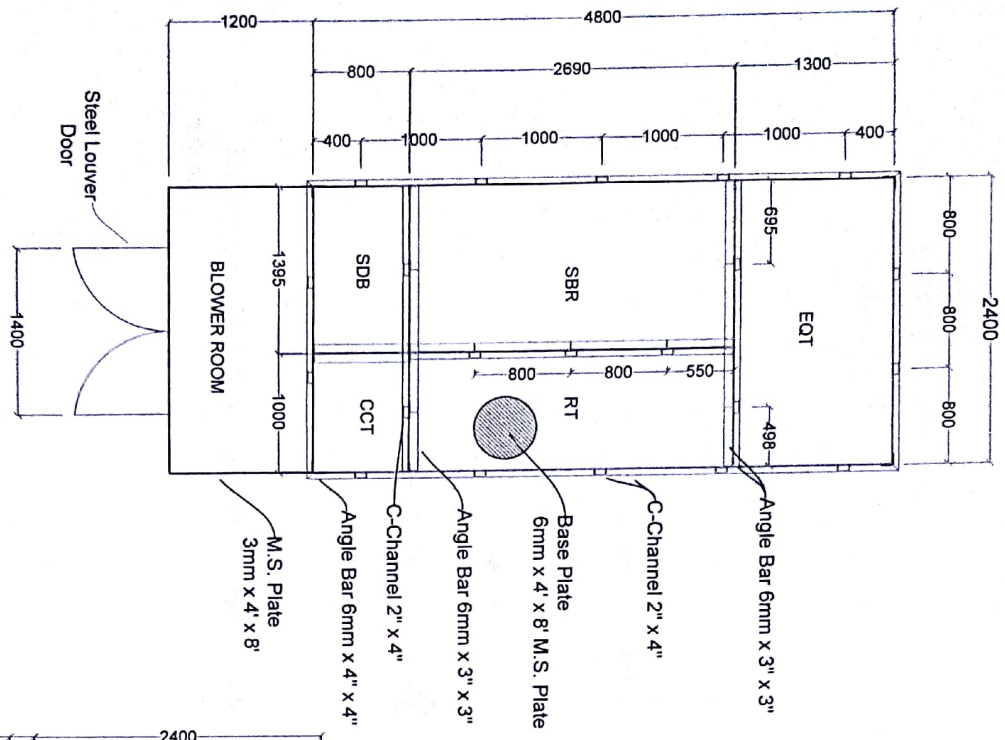
REVIEWED BY:
 FRANCO B. BITE
 CITY ARCHITECT

RECOMMENDING APPROVAL:
 DINDO B. RONCALOSA
 OIC. CITY ENGINEER

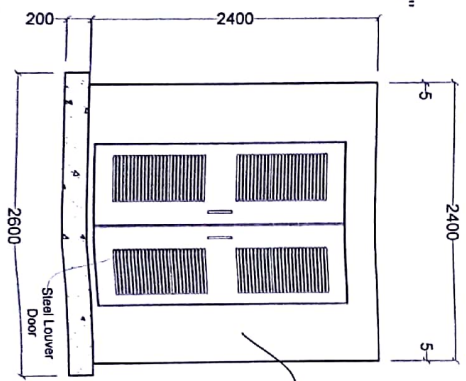
APPROVED BY:
 Hon. CIELO KRIBEL LAGMAN-LUSTRO
 CITY MAAYOR

CONTROL NO.
 SHEET NO.

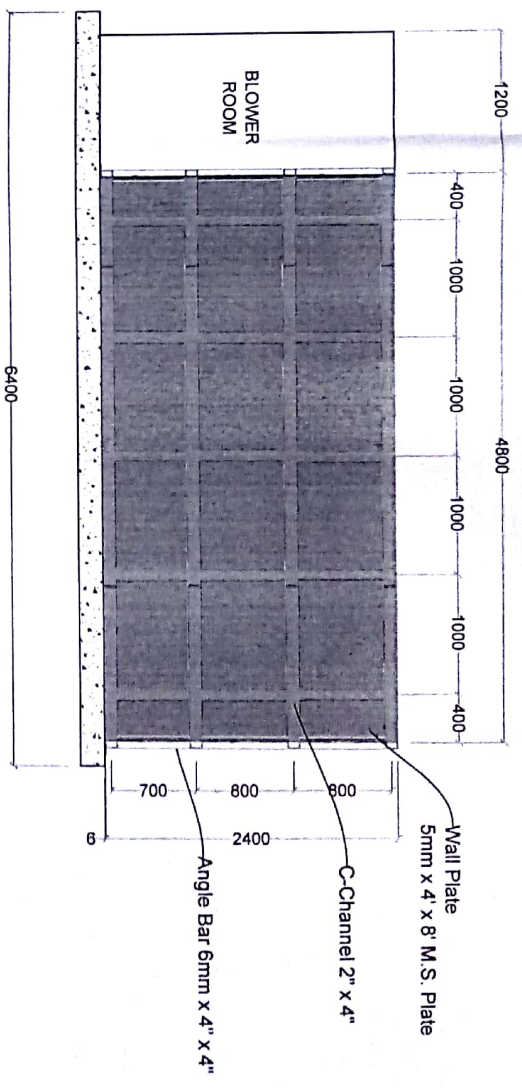
1 STRUCTURAL KEY PLAN
 S-02 SCALE 1:40MM



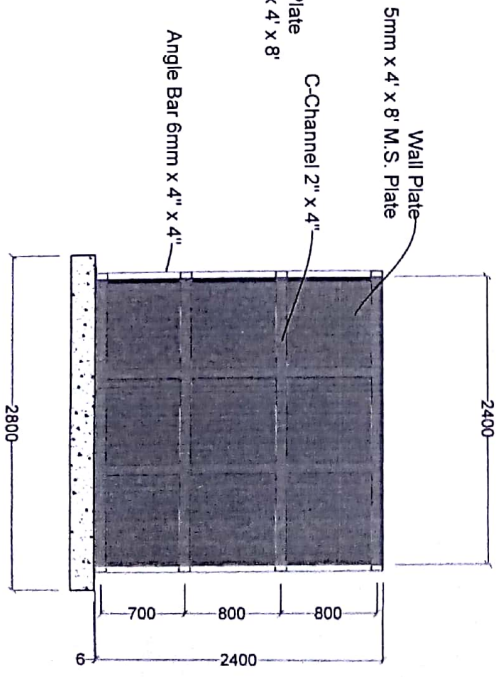
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 S-02 SCALE 1:40MM

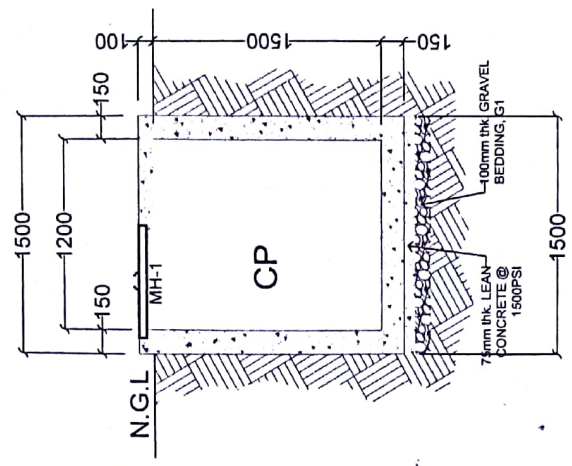


2 RIGHT & LEFT SIDE ELEVATION FRAMING PLAN
 S-02 SCALE 1:40MM

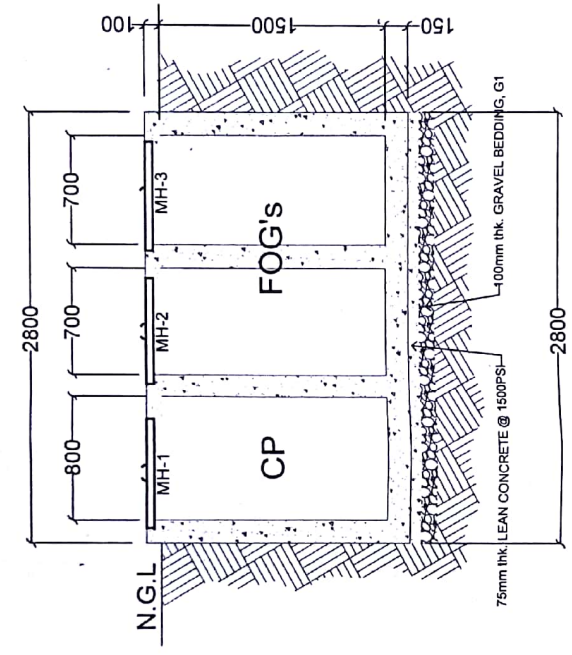


4 REAR & FRONT ELEVATION FRAMING PLAN
 S-02 SCALE 1:40MM

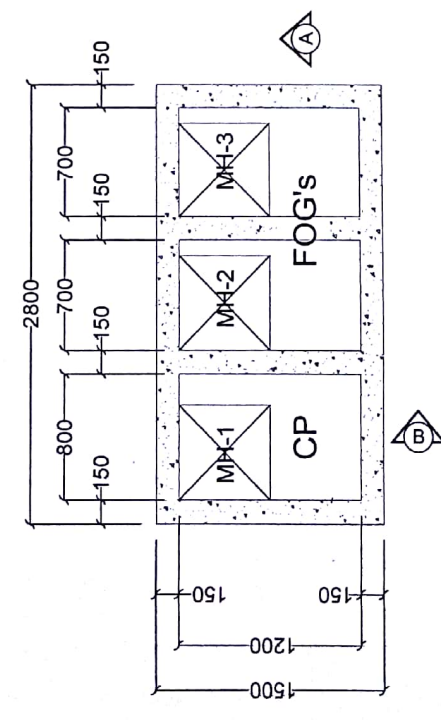




3 SECTION THRU BB
S-03 SCALE: 1:30MM

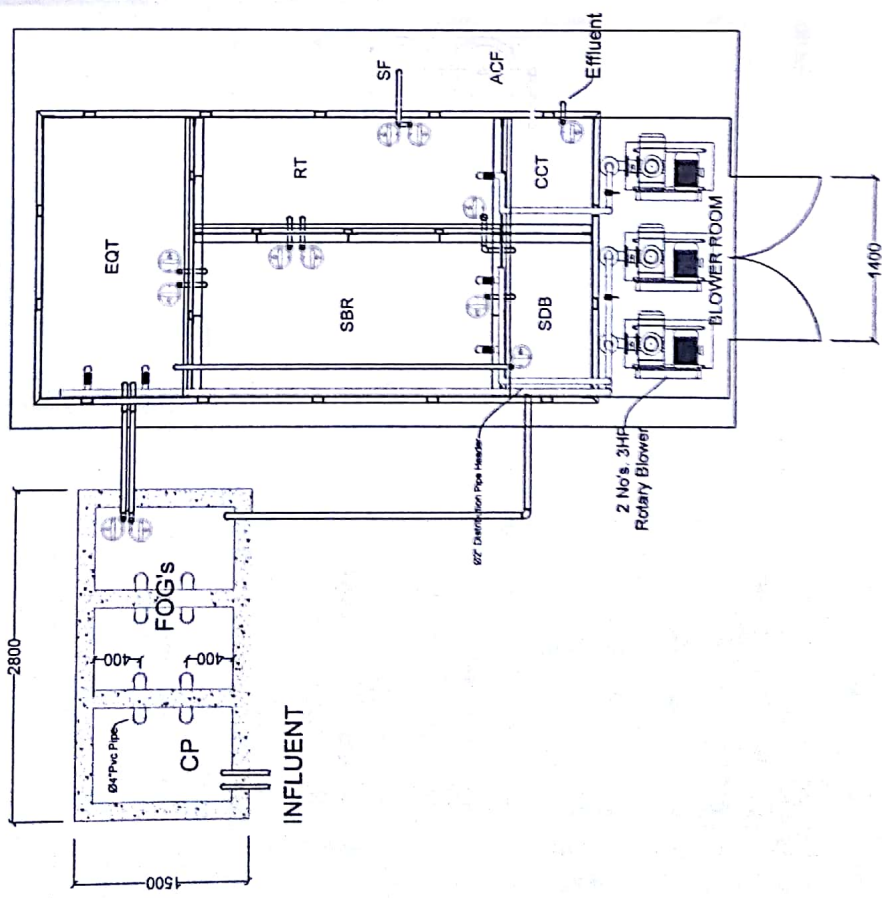
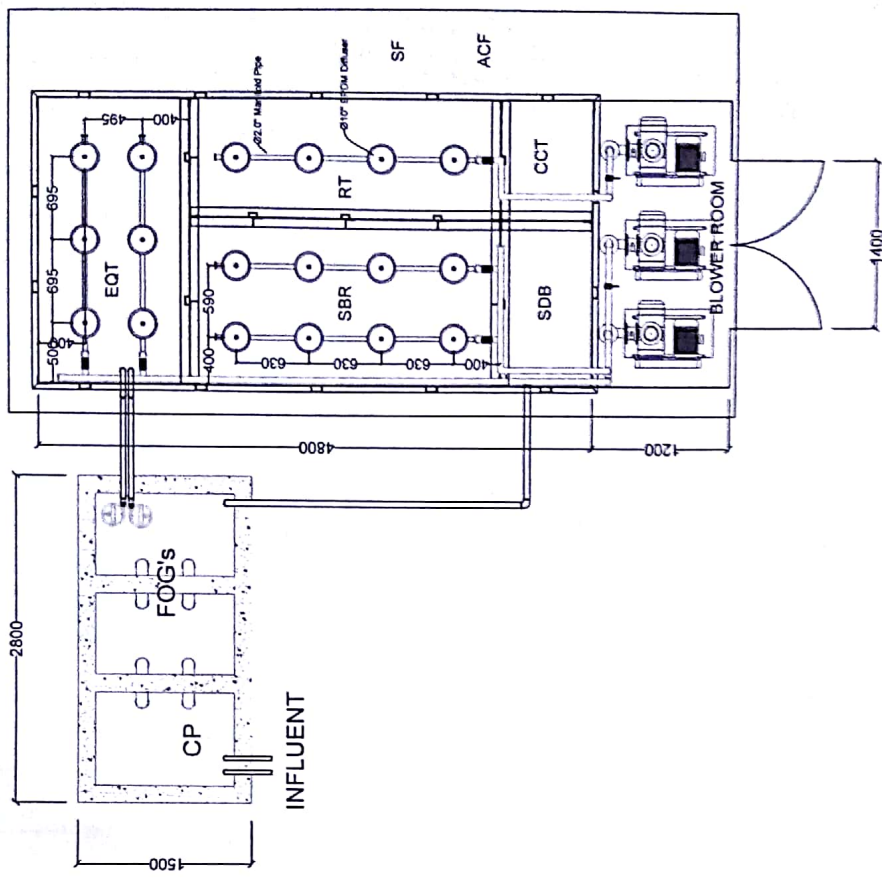


2 SECTION THRU AA
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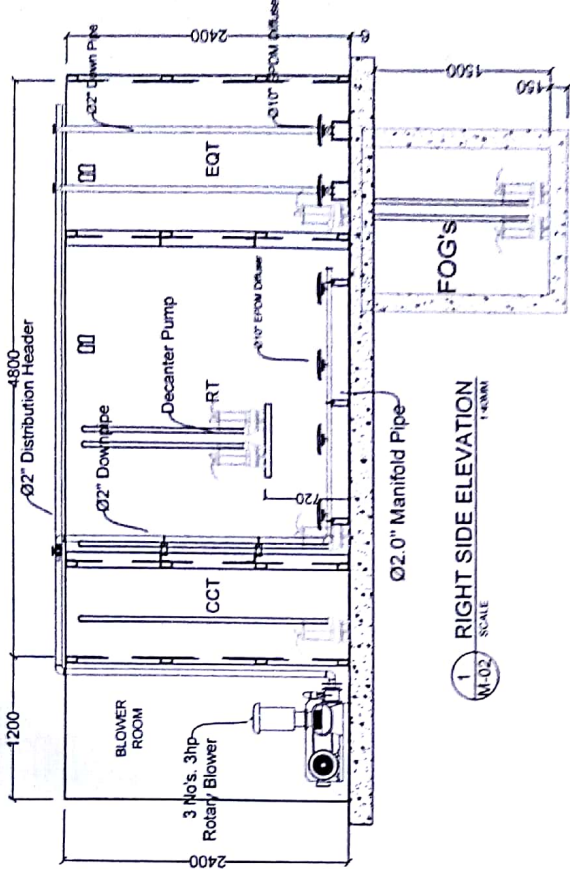


1 REINFORCED CONCRETE TANK PLAN
S-03 SCALE: 1:30MM

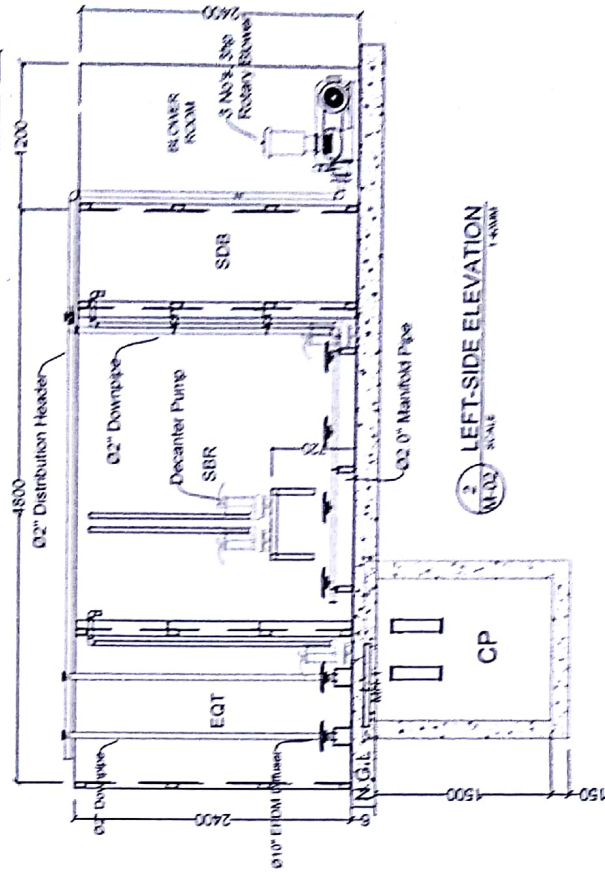
REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TABACO TABACO CITY-ALBAT	PROJECT TITLE: CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE	PREPARED BY: ZERNAN SERRANO ENVIRONMENTAL SPECIALIST I	CHECKED BY: RODOLFO B. GARCIA O.C. (GSO)	REVIEWED BY: FRANCO B. BITE CITY ARCHITECT	RECOMMENDING APPROVAL: DINDO B. BONGALOSA OIC-CITY ENGINEER	APPROVED BY: Hon. CIELO KRISBEL LAGAMAN-LUISTRO CITY MAYOR	CONTROL NO.:	SHEET NO.:
OFFICE OF THE CITY ARCHITECT/ OFFICE OF THE CITY ENGINEER Ground Floor, City Hall Annex Building, Tabaco City-4511	LOCATION: SAN CARLOS, TABACO CITY							



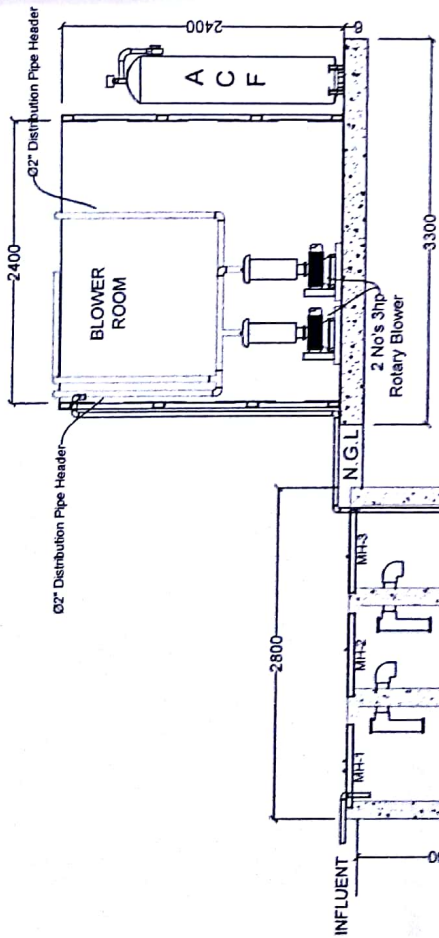
REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TARAOK TARAOK CITY GOVT	OFFICE OF THE CITY ARCHITECT/ OFFICE OF THE CITY ENGINEER	PROJECT TITLE: CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE	LOCATION: SANTELA/CA, TARAOK CITY	PREPARED BY: JERMIAN SERRANO ELECTRICAL SPECIALIST	CHECKED BY: JOSE B. GARCIA ME. ENG.	REVIEWED BY: FRANCIS W. BIE CITY ARCHITECT	RECOMMENDING APPROVAL: DR. JIMMY B. BUCALOSA CIVIL CITY ENGINEER	APPROVED BY: Hon. CECILIO MUREL LAGMAN-LUSTRO CITY MAYOR	CONTROL NO.:	SHEET NO.:
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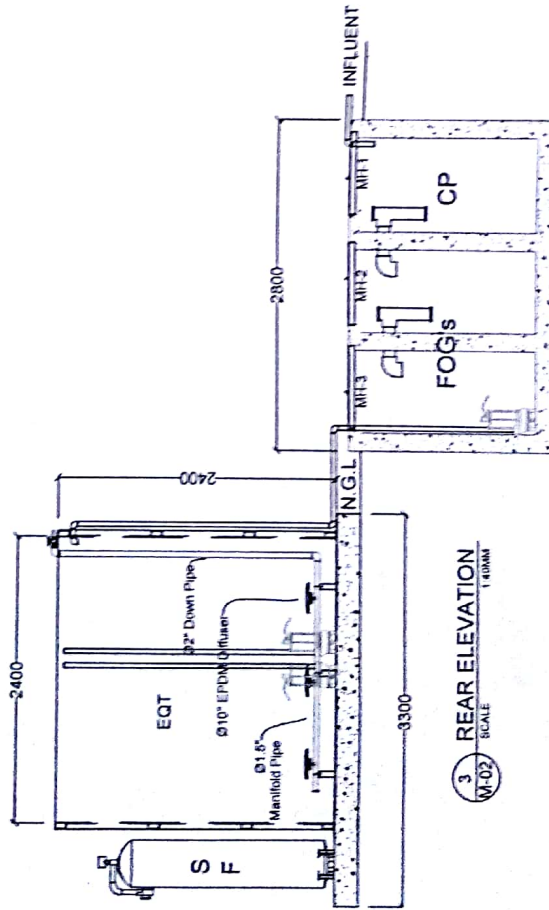
1 RIGHT SIDE ELEVATION
SCALE 1/8"=1'-0"



2 LEFT SIDE ELEVATION
SCALE 1/8"=1'-0"



4 FRONT ELEVATION
SCALE 1/8"=1'-0"

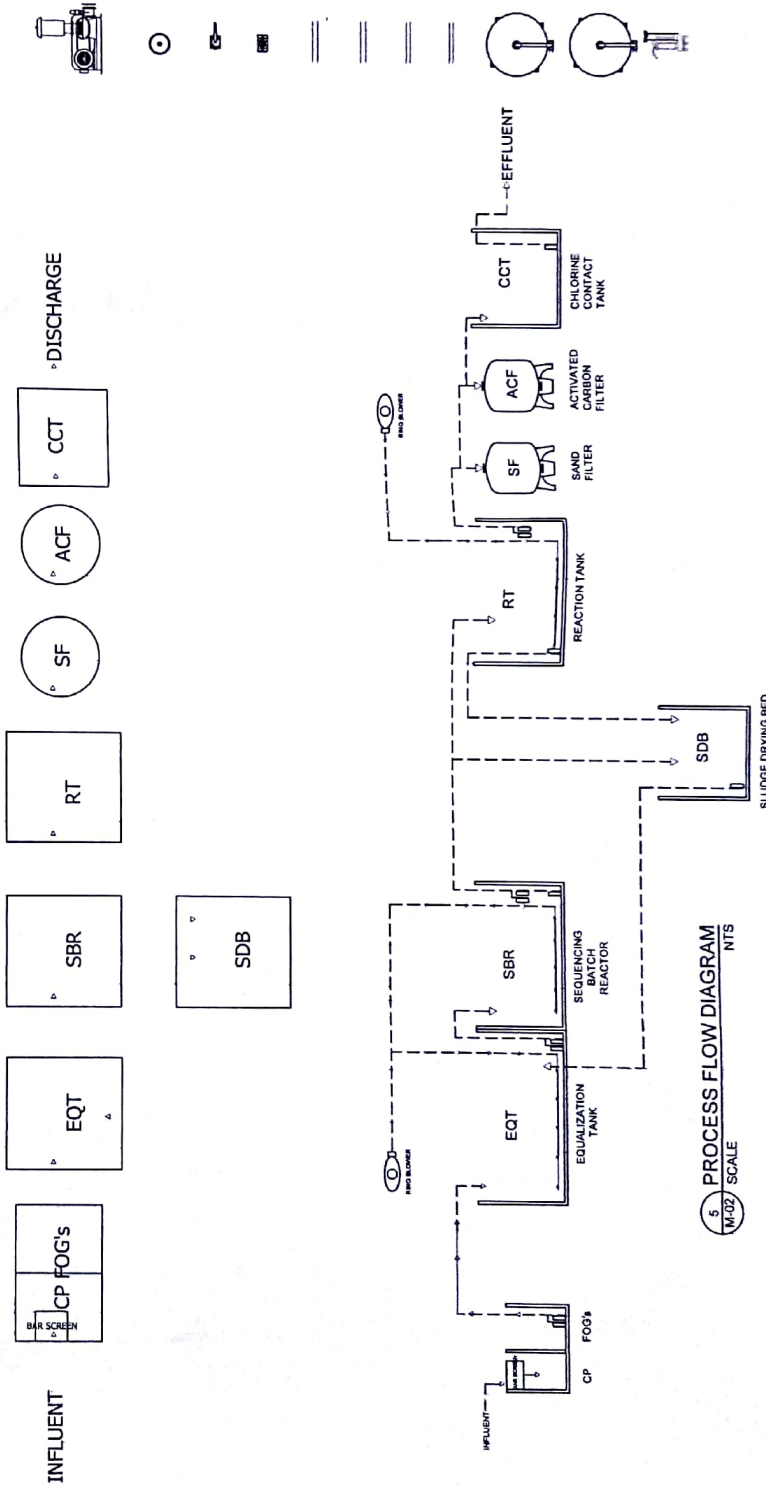


3 REAR ELEVATION
SCALE 1/8"=1'-0"

REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TABACO TABACO CITY, ALBAY	PROJECT TITLE: CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE	PREPARED BY: JERNAN SERBAND ENVIRONMENTAL SPECIALIST I	CHECKED BY: ROLAND B. GARCIA C.E. - 3330	REVIEWED BY: FRANCO B. BITE CITY ARCHITECT	RECOMMENDING APPROVAL: DINDO B. BONZALOSA C.E. CITY ENGINEER	APPROVED BY: HANA CEJO ARSEL LAGMAN-LUSTINO C.E. WATER	CONTAINER NO.	SHEET NO.
LOCATION: SAN CARLOS, TABACO CITY Ground Floor, City Hall Annex Building, Tobacco City-4311								

Tag No.	Description	Location	Power
MDP-1	METERING PUMP - 1	EQUALIZATION TANK	60W
MDP-2, 3 & 4	METERING PUMP - 2, 3 & 4	REACTION TANK	60W
MDP-5	METERING PUMP - 5	CHLORINE CONTACT TANK	60W
PH-01	PH METER - 1	EQUALIZATION TANK	60W
WP-1	WAS PUMP - 1	SEQUENTIAL BATCH REACTOR TANK	1No. 0.5 HP
WP-2	WAS PUMP - 2	REACTION TANK	1No. 0.5 HP
TP-01 & 02	TRANSFER PUMP - 1 & 2	FATS, OIL, GREASE SEPARATOR	2No.'s 1.0 HP
TP-03 & 04	TRANSFER PUMP - 3 & 4	EQUALIZATION TANK	2No.'s 0.5 HP
TP-05 & 06	TRANSFER PUMP - 5 & 6	SEQUENTIAL BATCH REACTOR TANK	2No.'s 0.5 HP
TP-07 & 08	TRANSFER PUMP - 7 & 8	REACTION TANK	2No.'s 0.5 HP
TP-09	TRANSFER PUMP - 9	CHLORINE CONTACT TANK	1No. 0.5 HP
TP-10	TRANSFER PUMP - 10	SLUDGE DRYING BED	1No. 0.5 HP
RBL-1 & 2	ROTARY BLOWER - 1 & 2	EQUALIZATION TANK	2No.'s 3P 3.0 HP
RBL-3	ROTARY BLOWER - 3	SEQUENTIAL BATCH REACTOR TANK	2No.'s 3P 3.0 HP

6 TYPICAL PROCESS FLOW
NTS
SCALE



5 PROCESS FLOW DIAGRAM
NTS
SCALE

- INFLUENT
- CP FOG'S
- EQT
- SBR
- RT
- SF
- ACF
- CCT
- DISCHARGE
- ROTARY BLOWER 3.0 HP 3P
- EPDM BUBBLE DIFFUSER 10.0"
- BUTTERFLY VALVE
- BALL VALVE
- Ø 2.0" B.I DISTRIBUTION HEADER
- Ø 2.0" B.I MAIN HEADER
- Ø 1.5" PVC DOWN PIPE
- Ø 1.5" PVC MANIFOLD
- SAND FILTER
- ACTIVATED CARBON FILTER
- TRANSFER PUMP

REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TABACO TABACO CITY-ALBAY	PROJECT TITLE CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE	PREPARED BY: ZERNAN-SERRANO ENVIRONMENTAL SPECIALIST I	CHECKED BY: PEDRITO BORJAGDAN ADMINISTRATIVE OFFICER IV	REVIEWED BY: FRANCO B. RITE CITY ARCHITECT	RECOMMENDING APPROVAL: DINDO B. BONGALOSA DIC-CITY ENGINEER	APPROVED BY: Hon. CLEO KRISL LAGMAN-LUISTRO CITY MAYOR	CONTROL NO.:	SHEET NO.:
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OFFICE OF THE CITY ARCHITECT/
OFFICE OF THE CITY ENGINEER
Ground Floor, City Hall Annex Building, Tabaco City-4311

NOTES:

ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PLUMBING CODE OF THE PHILIPPINES, THE NATIONAL BUILDING CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.

COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.

ALL PIPES SHALL BE INSTALLED AS INDICATE ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL BY ARCHITECT OR ENGINEER.

PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.

ALL SLOPES FOR HORIZONTAL SEWER LINES SHALL MAINTAIN 2% MINIMUM UNLESS OTHERWISE SPECIFIED.

SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT, DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.

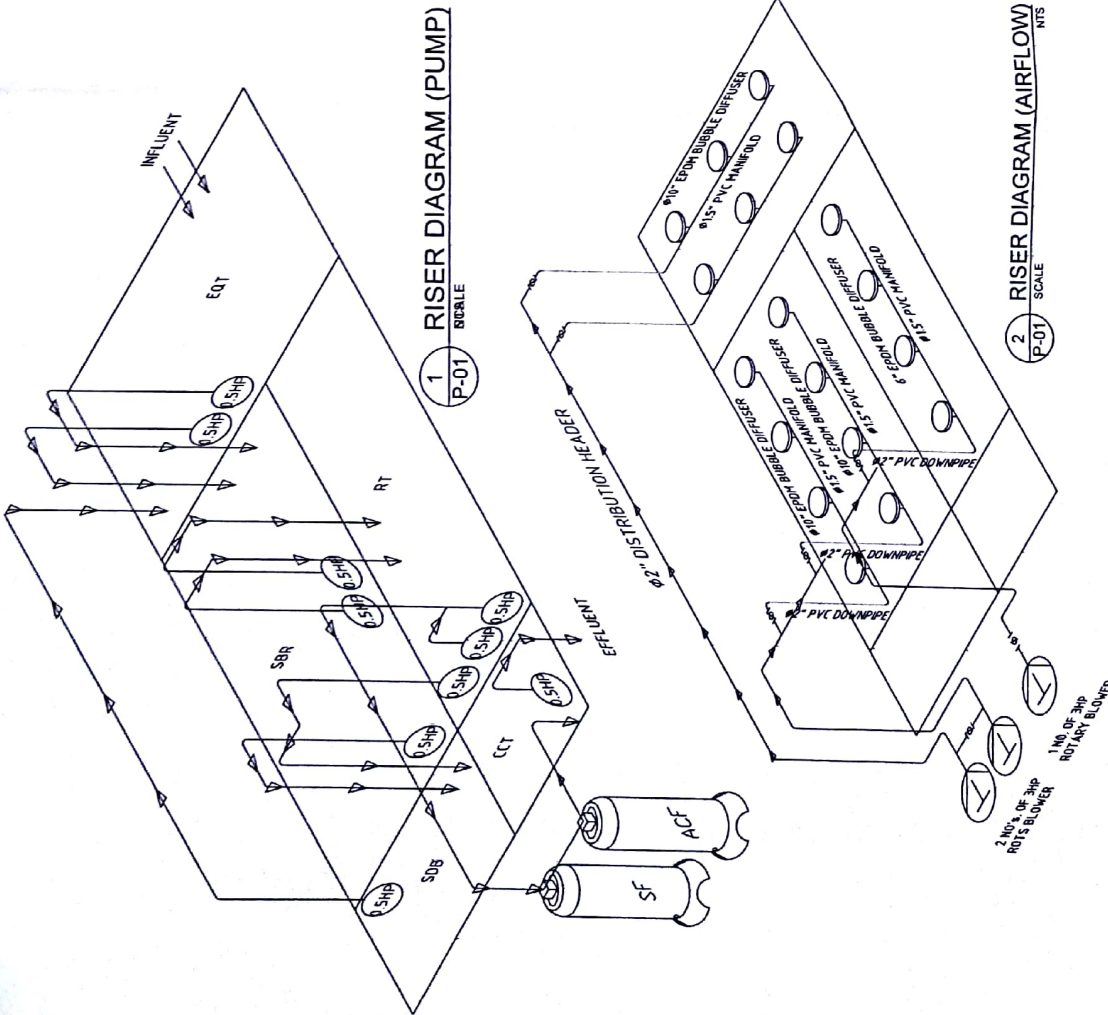
ALL PIPES SIZES ARE IN MILLIMETER NOMINAL INSIDE DIAMETER AND ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.

ALL FIXTURES FOR C.V.M. SHALL BE PROVIDED WITH AIR CHAMBER & MUST BE INDIVIDUALLY VENTED, UNLESS OTHERWISE INDICATED.

ALL SEWER PIPES EMBEDDED ON GROUND AND BELOW CONCRETE SLAB SHALL BE PROVIDED WITH SAND BEDDING MATERIAL.

PLUMBING LEGEND:

	02.0" HEADER PIPE	EQT	EQUALIZATION TANK
	01.5" DOWN PIPE	SBR	SEQUENTIAL BATCH REACTOR TANK
	01.5" MANIFOLD PIPE	CT	COLLECTING TANK
	0.5" CLEAR DOSING PUMP HOSE	CCT	CHLORINE CONTACT TANK
	BUTTERFLY VALVE	SDB	SLUDGE DRYING BED
	BALL VALVE	RT	REACTION TANK
	0.5hp TRANSFER PUMP	SF	SAND FILTER
	3P 2.0hp ROTARY BLOWER	ACF	ACTIVATED CARBON FILTER
	DOSING METER PUMP		
	DIFFUSER		



REPUBLIC OF THE PHILIPPINES LOCAL GOVERNMENT UNIT OF TABACO TABACO CITY-ALBAY	PROJECT TITLE: CONST. OF WASTE WATER TREATMENT FACILITY SLAUGHTER HOUSE	PREPARED BY: ENVIRONMENTAL SPECIALIST I	CHECKED BY: ROLAND B. GARCIA OIC, GSO	REVIEWED BY: FRANCO B. BITE CITY ARCHITECT	RECOMMENDING APPROVAL: DINDO B. BONCALOSA OIC-CITY ENGINEER	APPROVED BY: Hon. CIELO KRISEI LAGANAN-LUISTRO CITY MAYOR	CONTROL NO. SHEET NO.
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Section VIII. Bill of Quantities

Procuring Entity: City Government of Tabaco City

Contract ID No. 018-11-2020-INFRA

Name of the Project: Supply of Labor, Materials and Equip. for the Const. of Wastewater Treatment Facility

Project Location: Slaughterhouse, San Carlos, Tabaco City

BILL OF QUANTITIES

Item No.	Description of Work to be Done	Qty	Unit	Unit Price (Php)	Total Amount (Php)
I	Earth Works				
	a. Site Clearing and Area Preparation	169.86	LS		
	b. Excavation, Trenching and Hauling	2.40	sq.m.		
	c. Structural Fill and Compaction	7.78	cu.m.		
	d. Gravel Bedding	3.29	cu.m.		
II	Rebar Works	409.79	cu.m.		
III	Formworks	4.50	sq.m.		
IV	Concrete Works	6.81	cu.m.		
V	Metal / Steel Fabrication Works				
	a. Steel Tank Fabrication	4,011.81	kgs		
	b. Stair, Railings and Catwalk	939.03	kgs		
VI	Fiber Reinforced Plastic Coating	28.80	sq.m.		
VII	Painting Works	29.80	sq.m.		
VIII	Blower House / Control Room	1.00	LS		
IX	Influent Pipeline	6.00	LM		
X	Electromechanical Supply & Installation				
	a. Collecting Pit	1.00	LS		
	b. Fats, oil and grease separator	1.00	LS		
	c. Equalization Tank	1.00	LS		
	d. Integrated Fixed-Film Activated Sludge Tank	1.00	LS		
	e. Reaction Tank	1.00	LS		
	f. Sludge Drying Bed	1.00	LS		
	g. Chemical Dosing System	1.00	LS		
	h. Filtration System	1.00	LS		
	i. Chlorination System	1.00	LS		
	j. Flow Measurement	1.00	LS		
	k. Electrical , Signalling & Instrumentation	1.00	LS		
XI	Dry Run and Start-up Commisioning				
	a. Chemical Supply and Application	1.00	LS		
	b. Supply and Injection of Activated Sludge	2.76	cu.m.		
	c. Testing and Commisioning	1.00	LS		
XII	Bunkhouse and Other Facilities	4.00	months		
XIII	Project Billboard/Signboard	1.00	lot		
XIV	Occupational Construction Safety and Health	4.00	months		
				Total (in figures)	
	Total in Words:				

Name of the Company/Bidder	Name of Authorized Representative	Signature of Authorized Representative

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

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

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules;
and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- (k) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary’s Certificate in case of a

corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

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

Class "B" Documents

- (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

