PHILIPPINE BIDDING DOCUMENTS

Government of the Republic of the Philippines

CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER (DOH-TRC)- DULAG, LEYTE

PUBLIC BIDDING NO. 19-232-2

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Section I. Invitation to Bid

Invitation to Bid

for the

CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER (DOH-TRC)- DULAG, LEYTE

PUBLIC BIDDING NO. 19-232-2

1. The ***Procurement Service – Department of Budget and Management (PS-DBM)***, through the *General Appropriations Act for FY 2017* intend to apply the sum being the Approved Budget for the Contract (ABC) to payments under the contract for the following:

Qty	Item / Description	Approved Budget for the contract	Delivery Period
1 Lot	CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE	₱ 2,880,000.00	The **Intended Completion Date** is within One Hundred Eighty (180) Calendar Days.

Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The *PS-DBM* now invite PhilGEPS registered contractors with valid and current Philippine Contractors Accreditation Board (PCAB) License.

   Bidders should have completed a contract similar to the Project equivalent to at least fifty (50%) of the ABC. The description of an eligible bidder is contained in the Bidding Documents, particularly in Clause 5.4 of Section II. Instructions to Bidders. For purposes of this project, similar contracts shall refer to the contracts involving General Building Construction.

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 9184 (RA 9184), otherwise known as the "Government Procurement Reform Act."

   Bidding is restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines.

4. Interested bidders may obtain further information from *Procurement Service* and inspect the Bidding Documents at the address given below from *8:00 AM to 5:00PM.*

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5. A complete set of Bidding Documents may be acquired by interested Bidders from the address below and upon payment of Bidding Documents in the amount as follows:

Qty	Item / Description	Amount of Bid Documents
1 Lot	CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DOH-TRC	**P 1,000.00**

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. For the conduct of Site Inspection, below are the following contact persons:

Engr. Mark C. Oracion Email: kram_oracion18@yahoo.com
Phone No.: +639273763986

A certificate of site inspection shall be issued by DOH-TRC.

7. The schedule of bidding activities is as follows:

ACTIVITIES	SCHEDULE	VENUE
Advertisement/Posting of Invitation to Bid	July 19, 2019	PhilGEPS website, PS website, and at any conspicuous place reserved for this purpose in the premises of PS.
Issuance and Availability of Bid Documents	July 19, 2019	PS Cashier and PhilGEPS website
Site Inspection	From date of Posting to Opening except Saturdays, Sundays and Holidays	DOH-TRC Dulag, Brgy. Highway, Dulag, Leyte
Pre-Bid Conference	July 26, 2019; 1:30PM	PS Conference Room, Cristobal St., Paco,Manila
Last day of Submission of Written Clarifications	July 30, 2019	PS Main Office Cristobal St., Paco,Manila or email at pd2@ps-philgeps.gov.ph
Last day of Issuance of Supplemental Bid Bulletin	August 02, 2019	PhilGEPS website, PS website, PS bulletin board
Deadline of Submission and Receipt of Bids	August 09, 2019; 1:30PM	PS Conference Room, Cristobal St., Paco,Manila
Opening of Bids	Immediately after the deadline for submission of Bids.	PS Conference Room, Cristobal St., Paco,Manila

8. Bids must be duly received by the Procurement Division II (PD II) of the Procurement Service at the address below on or before August 09, 2019 at 1:30PM. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

The bidders or their duly authorized representatives may attend the opening of bids. Late bids shall not be accepted.

9. The *Procurement Service* 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 Section 41 of RA 9184 and its 2016 IRR, without thereby incurring any liability to the affected bidder or bidders.

10. For further information, please refer to:

THE PROCUREMENT DIVISION-II
Procurement Service
RR Road, Cristobal St., Paco, Manila
689-7750 loc. 4031, 563-9404
pd2@ps-philgeps.gov.ph

ENGR. MANUEL S. AVILA
Chairperson
Bids and Awards Committee II

Section II. Instructions to Bidders

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A. General

1. Scope of Bid

1.1. The Procuring Entity named in the **BDS**, invites bids for the construction of Works, as described in Section VI. Specifications.

1.2. The name, identification, and number of lots specific to this bidding are provided in the **BDS**. The contracting strategy and basis of evaluation of lots is described in **ITB** Clause 27.

1.3. The successful Bidder will be expected to complete the Works by the intended completion date specified in **SCC** Clause 1.17.

2. Source of Funds

The Procuring Entity has a budget or received funds from the Funding Source named in the **BDS**, and in the amount indicated in the **BDS**. It intends to apply part of the funds received for the Project, as defined in the **BDS**, to cover eligible payments under the Contract for the Works.

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

3.1. Unless otherwise specified in the **BDS**, the Procuring Entity, as well as bidders and contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. In pursuance of this policy, the Funding Source:

(a) defines, for purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the Procuring Entity, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in Republic Act 3019;

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after Bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition;

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(iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels; and

(iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or

(bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the Contract; and

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded Contract funded by the Funding Source if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing or, or in executing, a Contract funded by the Funding Source.

3.2. Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under the applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in **ITB** Clause 3.1(a).

3.3. Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a contractor in the bidding for and performance of a contract themselves or through independent auditors as reflected in the **GCC** Clause 34.

4. Conflict of Interest

4.1. All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) and a general conflict of interest in any of the circumstances set out in paragraphs (d) through (g) below:

(a) A Bidder has controlling shareholders in common with another Bidder;

(b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;

(c) A Bidder has the same legal representative as that of another Bidder for purposes of this Bid;

(d) A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process;

(e) A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid;

(f) A Bidder who participated as a consultant in the preparation of the design or technical specifications of the goods and related services that are the subject of the bid; or

(g) A Bidder who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.

4.2. In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity (HoPE),members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:

(a) If the Bidder is an individual or a sole proprietorship, to the Bidder himself;

(b) If the Bidder is a partnership, to all its officers and members;

(c) If the Bidder is a corporation, to all its officers, directors, and controlling stockholders;

(d) If the Bidder is a cooperative, to all its officers, directors, and controlling shareholders or members; and

(e) If the Bidder is a joint venture (JV), the provisions of items (a), (b), (c) or (d) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

Relationship of the nature described above or failure to comply with this Clause will result in the automatic disqualification of a Bidder.

5. Eligible Bidders

5.1. Unless otherwise indicated in the **BDS**, the following persons shall be eligible to participate in this Bidding:

(a) Duly licensed Filipino citizens/sole proprietorships;

(b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;

(c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;

(d) Cooperatives duly organized under the laws of the Philippines.

(e) Persons/entities forming themselves into a JV, i.e., a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that, in accordance with Executive Order No. 65 (EO 65), s. 2018[1], Filipino ownership or interest of the joint venture concerned shall be at least sixty percent (60%): Provided, further, that joint ventures in which Filipino ownership or interest is less than sixty percent (60%) may be eligible where the structures to be built require the application of techniques and/or technologies which are not adequately possessed by a person/entity meeting the sixty percent (60%) Filipino ownership requirement: Provided, finally, that in the latter case, Filipino ownership or interest shall not be less than twenty five percent (25%). For this purpose, Filipino ownership or interest shall be based on the contributions of each of the members of the joint venture as specified in their JVA.

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[1] *Promulgating the Eleventh Foreign Investment Negative List issued on 29 October 2018.*

5.2. The Procuring Entity may also invite foreign bidders when provided for under any Treaty or International or Executive Agreement as specified in the **BDS**.

5.3. Government owned or controlled corporations (GOCCs) may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not attached agencies of the Procuring Entity.

5.4. (a) 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 Philippine Statistics Authority(PSA) consumer price index. However, contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB.

(b) 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 **BDS**.

For this purpose, contracts similar to the Project shall be those described in the **BDS**.

5.5. The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, calculated as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements (AFS) submitted to the BIR.

For purposes of computing the foreign bidders' NFCC, the value of the current assets and current liabilities shall be based on their audited financial statements prepared in accordance with international financial reporting standards.

6. Bidder's Responsibilities

6.1. The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section IX. Bidding Forms as required in **ITB** Clause 12.1(b)(iii).

6.2. The Bidder is responsible for the following:

(a) Having taken steps to carefully examine all of the Bidding Documents;

(b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;

(c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;

(d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin/s as provided under **ITB** Clause 10.4.

(e) Ensuring that it is not "blacklisted" or barred from bidding by the GoP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;

(f) Ensuring that 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;

(g) Authorizing the HoPE or its duly authorized representative/s to verify all the documents submitted;

(h) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable;

(i) Complying with the disclosure provision under Section 47 of RA 9184and its IRR in relation to other provisions of RA 3019;

(j) Complying with existing labor laws and standards, in the case of procurement of services. Moreover, bidder undertakes to:

(i) Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable.

In case there is a finding by the Procuring Entity or the DOLE of underpayment or non-payment of workers' wage and wage-related benefits, bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of Republic Act No. 9184 without prejudice to the institution of

appropriate actions under the Labor Code, as amended, and other social legislations.

(ii) Comply with occupational safety and health standards and to correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, bidder undertakes to suspend contract implementation pending clearance to proceed from the DOLE Regional Office and to comply with Work Stoppage Order; and

(iii) Inform the workers of their conditions of work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises; and

(k) Ensuring that it 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;

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

6.3. The Bidder, by the act of submitting its bid, shall be deemed to have inspected the site, determined the general characteristics of the contract works and the conditions for this Project and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

6.4. It shall be the sole responsibility of the prospective bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to this Project, including: (a) the location and the nature of the contract, project, or 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.

6.5. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity. However, the Procuring Entity shall ensure that all information in the Bidding Documents, including supplemental/bid bulletins issued are correct and consistent.

6.6. Before submitting their bids, the Bidders are deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect the contract in any way.

6.7. The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

6.8. The Bidder should note that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. Origin of Goods and Services

There is no restriction on the origin of Goods, or Contracting of Works or Services other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations.

8. Subcontracts

8.1. Unless otherwise specified in the **BDS**, the Bidder may subcontract portions of the Works to an extent as may be approved by the Procuring Entity and stated in the **BDS**. However, subcontracting of any portion shall not relieve the Bidder from any liability or obligation that may arise from the contract for this Project.

8.2. Subcontractors must submit the documentary requirements under **ITB** Clause 12 and comply with the eligibility criteria specified in the **BDS**. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Works shall be disallowed.

8.3. The Bidder may identify the subcontractor to whom a portion of the Works will be subcontracted at any stage of the bidding process or during contract implementation. If the Bidder opts to disclose the name of the subcontractor during bid submission, the Bidder shall include the required documents as part of the technical component of its bid.

B. Contents of Bidding Documents

9. Pre-Bid Conference

9.1. (a) If so specified in the **BDS**, a pre-bid conference shall be held at the venue and on the date indicated therein, to clarify and address the Bidders' questions on the technical and financial components of this Project.

(b) The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission of and receipt of bids, but not earlier than seven (7) calendar days from the posting of the Invitation to Bid/Bidding Documents in the PhilGEPS website. If the Procuring Entity determines that, by reason of the method, nature, or complexity of the contract to be bid, or when international participation will be more advantageous to the GoP, a longer period for the preparation of bids is necessary, the pre-bid conference shall be held at least thirty (30) calendar days before the deadline for the submission and receipt of bids, as specified in the **BDS**.

9.2. Bidders are encouraged to attend the pre-bid conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the Bidder will in no way prejudice its bid; however, the Bidder is expected to know the changes and/or amendments to the Bidding Documents as recorded in the minutes of the pre-bid conference and the Supplemental/Bid Bulletin. The minutes of the pre-bid conference shall be recorded and prepared not later than five (5) calendar days after the pre-bid conference. The minutes shall be made available to prospective bidders not later than five (5) days upon written request.

9.3. Decisions of the BAC amending any provision of the bidding documents shall be issued in writing through a Supplemental/Bid Bulletin at least seven (7) calendar days before the deadline for the submission and receipt of bids.

10. Clarification and Amendment of Bidding Documents

10.1. Prospective bidders may request for clarification(s) on and/or interpretation of any part of the Bidding Documents. Such a request must be in writing and submitted to the Procuring Entity at the address indicated in the **BDS** at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10.2. The BAC shall respond to the said request by issuing a Supplemental/Bid Bulletin, to be made available to all those who have properly secured the Bidding Documents, at least seven (7) calendar days before the deadline for the submission and receipt of Bids.

10.3. Supplemental/Bid Bulletins may also be issued upon the Procuring Entity's initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of Bids. Any modification to the Bidding Documents shall be identified as an amendment.

10.4. Any Supplemental/Bid Bulletin issued by the BAC shall also be posted in the PhilGEPS and the website of the Procuring Entity concerned, if available, and at any conspicuous place in the premises of the Procuring Entity concerned. It shall be the responsibility of all Bidders who have properly secured the Bidding Documents to inquire and secure Supplemental/Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental/Bid Bulletin must be informed and allowed to modify or withdraw their bids in accordance with **ITB** Clause23.

C. Preparation of Bids

11. Language of Bids

The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other

than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and 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. The English translation shall govern, for purposes of interpretation of the bid.

12. Documents Comprising the Bid: Eligibility and Technical Components

12.1. Unless otherwise indicated in the **BDS**, the first envelope shall contain the following eligibility and technical documents:

(a) Eligibility Documents –

Class "A" Documents

(i) PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, For procurement to be performed overseas, it shall be subject to the Guidelines to be issued by the GPPB.

(ii) Statement 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

Statement of the Bidder's SLCC similar to the contract to be bid, in accordance with ITB Clause 5.4.

The two statements required shall indicate for each contract the following:

(ii.1) name of the contract;

(ii.2) date of the contract;

(ii.3) contract duration;

(ii.4) owner's name and address;

(ii.5) nature of work;

(ii.6) contractor's role (whether sole contractor, subcontractor, or partner in a JV) and percentage of participation;

(ii.7) total contract value at award;

(ii.8) date of completion or estimated completion time;

(ii.9) total contract value at completion, if applicable;

(ii.10) percentages of planned and actual accomplishments, if applicable; and

(ii.11) value of outstanding works, if applicable.

The statement of the Bidder's SLCC shall be supported by the Notice of Award and/or Notice to Proceed, Project Owner's Certificate of Final Acceptance issued by the Owner other than the Contractor or the Constructors Performance Evaluation System(CPES) Final Rating, which must be at least satisfactory. In case of contracts with the private sector, an equivalent document shall be submitted;

(iii) Unless otherwise provided in the **BDS**, a valid special PCAB License in case of joint ventures, and registration for the type and cost of the contract for this Project; and

(iv) NFCC computation in accordance with ITB Clause 5.5.

Class "B" Documents

(v) If applicable, Joint Venture Agreement (JVA) in accordance with RA 4566.

(b) Technical Documents –

(i) Bid security in accordance with **ITB** Clause 18. If the Bidder opts to submit the bid security in the form of:

(i.1) a bank draft/guarantee or an irrevocable letter of credit issued by a foreign bank, it shall be accompanied by a confirmation from a Universal or Commercial Bank; or

(i.2) a surety bond accompanied by a certification coming from the Insurance Commission that the surety or insurance company is authorized to issue such instruments.

(ii) Project Requirements, which shall include the following:

(ii.1) Organizational chart for the contract to be bid;

(ii.2) List of contractor's 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. These personnel must meet the required minimum years of experience set in the **BDS**; and

(ii.3) 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, which must meet the minimum requirements for the contract set in the **BDS**; and

(iii) Sworn statement in accordance with Section 25.3 of the IRR of RA 9184 and using the form prescribed in Section IX. Bidding Forms.

13. Documents Comprising the Bid: Financial Component

13.1. The financial component of the bid shall contain the following:

(a) Financial Bid Form, which includes bid prices and the bill of quantities, in accordance with **ITB** Clauses 15.1 and 15.3;and

(b) Any other document related to the financial component of the bid as stated in the **BDS**.

13.2. (a) Unless otherwise stated in the **BDS,** all Bids that exceed the ABC shall not be accepted.

(b) Unless otherwise indicated in the **BDS**, for foreign-funded procurement, a ceiling may be applied to bid prices provided the following conditions are met:

(i) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the procuring entity, payment could be made upon the submission of bids.

(ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the engineer or the responsible unit of the procuring entity and that the estimates are based on adequate detailed engineering (in the case of infrastructure projects) and reflect the quality, supervision and risk and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.

(iii) The procuring entity has trained cost estimators on estimating prices and analyzing bid variances. In the case of infrastructure projects, the procuring entity must also have trained quantity surveyors.

(iv) The procuring entity has established a system to monitor and report bid prices relative to ABC and engineer's/procuring entity's estimate.

(v) The procuring entity has established a monitoring and evaluation system for contract implementation to provide a feedback on actual total costs of goods and works.

14. Alternative Bids

14.1. Alternative Bids shall be rejected. For this purpose, alternative bid is an offer made by a Bidder in addition or as a substitute to its original bid which may be included as part of its original bid or submitted separately therewith for purposes of bidding. A bid with options is considered an alternative bid regardless of whether said bid proposal is contained in a single envelope or submitted in two (2) or more separate bid envelopes.

14.2. 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.

14.3. Each Bidder shall submit only one Bid, either individually or as a partner in a JV. A Bidder who submits or participates in more than one bid (other than as a subcontractor if a subcontractor is permitted to participate in more than one bid) will cause all the proposals with the Bidder's participation to be disqualified. This shall be without prejudice to any applicable criminal, civil and administrative penalties that may be imposed upon the persons and entities concerned.

15. Bid Prices

15.1. The contract shall be for the whole Works, as described in **ITB** Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.

15.2. The Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Bill of Quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0)or a dash (-) for the said item would mean that it is being offered for free to the Government, except those required by law or regulations to be provided for.

15.3. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, prior to the deadline for submission of bids, shall be included in the rates, prices, and total bid price submitted by the Bidder.

15.4. All bid prices for the given scope of work in the contract as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as specified in GCC Clause 48.Upon the recommendation of the Procuring Entity, price escalation may be allowed in extraordinary circumstances as may

be determined by the National Economic and Development Authority in accordance with the Civil Code of the Philippines, and upon approval by the GPPB. Furthermore, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GoP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

16. Bid Currencies

16.1. All bid prices shall be quoted in Philippine Pesos unless otherwise provided in the **BDS**. However, for purposes of bid evaluation, bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate prevailing on the day of the Bid Opening.

16.2. If so allowed in accordance with **ITB** Clause 16.1, the Procuring Entity for purposes of bid evaluation and comparing the bid prices will convert the amounts in various currencies in which the bid price is expressed to Philippine Pesos at the exchange rate as published in the *Bangko Sentral ng Pilipinas* (BSP) reference rate bulletin on the day of the bid opening.

16.3. Unless otherwise specified in the **BDS**, payment of the contract price shall be made in Philippine Pesos.

17. Bid Validity

17.1. Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.

17.2. In exceptional circumstances, prior to the expiration of the bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

18. Bid Security

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

Form of Bid Security	Amount of Bid Security (Not less than the Percentage of the ABC)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	Two percent (2%)

	For biddings conducted by LGUs, the cashier's/manager's check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	
(b)	Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. *For biddings conducted by LGUs, the Bank Draft/Guarantee, or irrevocable letter of credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.*	
(c)	Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security;	Five percent (5%)

The Bid Securing Declaration mentioned above is an undertaking which states, among others, that the Bidder shall enter into contract with the procuring entity and furnish the performance security required under ITB Clause 32.2, within ten (10) calendar daysfrom receipt of the Notice of Award, and commits to pay the corresponding amount as fine, and be suspended for a period of time from being qualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as provided in the guidelines issued by the GPPB.

18.2. The bid security should be valid for the period specified in the **BDS**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

18.3. No bid securities shall be returned to Bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a request for reconsideration and/or protest, or lapse of the reglementary period without having filed a request for reconsideration or protest. Without prejudice on its forfeiture, Bid Securities shall be returned only after the Bidder with the

Lowest Calculated Responsive Bid (LCRB) has signed the contract and furnished the Performance Security, but in no case later than the expiration of the Bid Security validity period indicated in **ITB** Clause 18.2.

18.4. Upon signing and execution of the contract, pursuant to **ITB** Clause 31, and the posting of the performance security, pursuant to **ITB** Clause 32, the successful Bidder's Bid Security will be discharged, but in no case later than the Bid Security validity period as indicated in **ITB** Clause 18.2.

18.5. The bid security may be forfeited:

(a) if a Bidder:

(i) withdraws its bid during the period of bid validity specified in **ITB** Clause 17;

(ii) does not accept the correction of errors pursuant to **ITB** Clause 27.3(b);

(iii) has a finding against the veracity of the required documents submitted in accordance with ITB Clause 28.2;

(iv) submission of eligibility requirements containing false information or falsified documents;

(v) submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding;

(vi) allowing the use of one's name, or using the name of another for purposes of public bidding;

(vii) withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the LCRB;

(viii) refusal or failure to post the required performance security within the prescribed time;

(ix) refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification;

(x) any documented attempt by a Bidder to unduly influence the outcome of the bidding in his favor;

(xi) failure of the potential joint venture partners to enter into the joint venture after the bid is declared successful; or

(xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding,

submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.

(b) if the successful Bidder:

(i) fails to sign the contract in accordance with **ITB** Clause31;

(ii) fails to furnish performance security in accordance with **ITB** Clause32.

19. Format and Signing of Bids

19.1 Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in Section IX. Bidding Forms on or before the deadline specified in the **ITB** Clause 21 in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously. The first shall contain the technical component of the bid, including the eligibility requirements under **ITB** Clause 12.1, and the second shall contain the financial component of the bid. This shall also be observed for each lot in the case of lot procurement.

19.2 Forms as mentioned in **ITB** Clause 19.1 must be completed without any alterations to their format, and no substitute form shall be accepted. All blank spaces shall be filled in with the information requested.

19.3 The Bidder shall prepare and submit an original of the first and second envelopes as described in **ITB** Clauses 12 and 13. In addition, the Bidder shall submit copies of the first and second envelopes. In the event of any discrepancy between the original and the copies, the original shall prevail.

19.4 Each and every page of the Bid Form, including the Bill of Quantities, under Section IX hereof, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.

19.5 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

20. Sealing and Marking of Bids

20.1. Bidders shall enclose their original eligibility and technical documents described in **ITB** Clause 12, in one sealed envelope marked "ORIGINAL - TECHNICAL COMPONENT," and the original of their financial component in another sealed envelope marked "ORIGINAL - FINANCIAL COMPONENT," sealing them all in an outer envelope marked "ORIGINAL BID."

20.2. Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as "COPY NO. ___ - TECHNICAL COMPONENT" and "COPY NO. ___ – FINANCIAL COMPONENT" and

the outer envelope as "COPY NO. ___," respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.

20.3. The original and the number of copies of the bid as indicated in the **BDS** shall be typed or written in ink and shall be signed by the Bidder or its duly authorized representative/s.

20.4. All envelopes shall:

(a) contain the name of the contract to be bid in capital letters;

(b) bear the name and address of the Bidder in capital letters;

(c) be addressed to the Procuring Entity's BAC in accordance with **ITB** Clause 21;

(d) bear the specific identification of this bidding process indicated in the **ITB** Clause 1.2; and

(e) bear a warning "DO NOT OPEN BEFORE…" the date and time for the opening of bids, in accordance with **ITB** Clause 21.

20.5. Bid envelopes that are not properly sealed and marked, as required in the bidding documents, shall not be rejected, but the Bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC or the Procuring Entity shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

D. Submission and Opening of Bids

21. Deadline for Submission of Bids

Bids must be received by the Procuring Entity's BAC at the address and on or before the date and time indicated in the **BDS**.

22. Late Bids

Any bid submitted after the deadline for submission and receipt of bids prescribed by the Procuring Entity, pursuant to **ITB** Clause 21, shall be declared "Late" and shall not be accepted by the Procuring Entity. The BAC shall record in the minutes of Bid Submission and Opening, the Bidder's name, its representative and the time the late bid was submitted.

23. Modification and Withdrawal of Bids

23.1. The Bidder may modify its bid after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Bidder shall not be allowed to retrieve its original bid, but shall be allowed to submit another bid equally

sealed and properly identified in accordance with Clause 20, linked to its original bid marked as "TECHNICAL MODIFICATION" or "FINANCIAL MODIFICATION" and stamped "received" by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the Bidder unopened.

23.2. A Bidder may, through a Letter of Withdrawal, withdraw its bid after it has been submitted, for valid and justifiable reason; provided that the Letter of Withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Letter of Withdrawal must be executed by the authorized representative of the Bidder identified in the Omnibus Sworn Statement, a copy of which should be attached to the letter.

23.3. Bids requested to be withdrawn in accordance with **ITB** Clause 23.1 shall be returned unopened to the Bidders. A Bidder, who has acquired the bidding documents may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of bids. A Bidder that withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.

23.4. No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Financial Bid Form. Withdrawal of a bid during this interval shall result in the forfeiture of the Bidder's bid security, pursuant to **ITB** Clause 18.5, and the imposition of administrative, civil, and criminal sanctions as prescribed by RA 9184 and its IRR.

24. Opening and Preliminary Examination of Bids

24.1. The BAC shall open the Bids in public, immediately after the deadline for the submission and receipt of bids in public, as specified in the **BDS**. In case the Bids cannot be opened as scheduled due to justifiable reasons, the BAC shall take custody of the Bids submitted and reschedule the opening of Bids on the next working day or at the soonest possible time through the issuance of a Notice of Postponement to be posted in the PhilGEPS website and the website of the Procuring Entity concerned.

24.2. Unless otherwise specified in the BDS, the BAC shall open the first bid envelopes and determine each Bidder's compliance with the documents prescribed in ITB Clause 12, using a non-discretionary "pass/fail" criterion. If a Bidder submits the required document, it shall be rated "passed" for that particular requirement. In this regard, bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed". Otherwise, the BAC shall rate the said first bid envelope as "passed".

24.3. Unless otherwise specified in the **BDS**, immediately after determining compliance with the requirements in the first envelope, the BAC shall forthwith open the second bid envelope of each remaining eligible Bidder whose first bid envelope was rated "passed." The second envelope of each

complying Bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in **ITB** Clause 13.2, the BAC shall rate the bid concerned as "failed." Only bids that are determined to contain all the bid requirements for both components shall be rated "passed" and shall immediately be considered for evaluation and comparison.

24.4. Letters of Withdrawal shall be read out and recorded during bid opening, and the envelope containing the corresponding withdrawn bid shall be returned to the Bidder unopened.

24.5. All members of the BAC who are present during bid opening shall initial every page of the original copies of all bids received and opened.

24.6. In the case of an eligible foreign bidder as described in **ITB** Clause 5, the following Class "A" Documents may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign bidder concerned, which shall likewise be uploaded and maintained in the PhilGEPS in accordance with Section 8.5.2 of the IRR.:

a) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives;

b) Mayor's/Business permit issued by the local government where the principal place of business of the Bidder is located; and

c) Audited Financial Statements showing, among others, the prospective Bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission.

24.7. Each partner of a joint venture agreement shall likewise submit the document required in **ITB** Clause 12.1(a)(i). Submission of documents required under **ITB** Clauses 12.1(a)(i) to 12.1(a)(iv) by any of the joint venture partners constitutes compliance.

24.8. The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price (per lot, if applicable, and/or including discount, if any), bid security, findings of preliminary examination, and whether there is a withdrawal or modification; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.

24.8. The Bidders or their duly authorized representatives may attend the opening of bids. The BAC shall ensure the integrity, security, and confidentiality of all submitted bids. The Abstract of Bids as read and the minutes of the Bid Opening shall be made available to the public upon written request and payment of a specified fee to recover cost of materials.

24.9 To ensure transparency and accurate representation of the bid submission, the BAC Secretariat shall notify in writing all Bidders whose bids it has received through its PhilGEPS-registered physical address or official e-mail address. The notice shall be issued within seven (7) calendar days from the date of the bid opening.

E. Evaluation and Comparison of Bids

25. Process to be Confidential

25.1. Members of the BAC, including its staff and personnel, as well as its Secretariat and TWG, are prohibited from making or accepting any kind of communication with any Bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of **ITB** Clause 26.

25.2. Any effort by a Bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the Bidder's bid.

26. Clarification of Bids

To assist in the evaluation, comparison and post-qualification of the bids, the Procuring Entity may ask in writing any Bidder for a clarification of its bid. All responses to requests for clarification shall be in writing. Any clarification submitted by a Bidder in respect to its bid and that is not in response to a request by the Procuring Entity shall not be considered

27. Detailed Evaluation and Comparison of Bids

27.1. The Procuring Entity will undertake the detailed evaluation and comparison of Bids which have passed the opening and preliminary examination of Bids, pursuant to **ITB** Clause 24, in order to determine the Lowest Calculated Bid.

27.2. The Lowest Calculated Bid shall be determined in two steps:

(a) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and

(b) The ranking of the total bid prices as so calculated from the lowest to highest. The bid with the lowest price shall be identified as the Lowest Calculated Bid.

27.3. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all bids rated "passed," using non-discretionary "pass/fail" criterion. The BAC shall consider the following in the evaluation of bids:

(a) Completeness of the bid. Unless the **BDS** allows partial bids, bids not addressing or providing all of the required items in the Schedule of Requirements including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. In this

regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0)or a dash (-)for the said item would mean that it is being offered for free to the Procuring Entity, except those required by law or regulations to be provided for; and

(b) Arithmetical corrections. Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications. Any adjustment shall be calculated in monetary terms to determine the calculated prices.

27.4. Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the Lowest Calculated Bid. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the **BDS**.

27.5. The Procuring Entity's evaluation of bids shall be based on the bid price quoted in the Bid Form, which includes the Bill of Quantities.

27.6. Bids shall be evaluated on an equal footing to ensure fair competition. For this purpose, all Bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value added tax (VAT), income tax, local taxes, and other fiscal levies and duties which shall be itemized in the bid form and reflected in the detailed estimates. Such bids, including said taxes, shall be the basis for bid evaluation and comparison.

27.7. If so indicated pursuant to **ITB** Clause 1.2. Bids are being invited for individual lots or for any combination thereof, provided that all Bids and combinations of Bids 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 prices quoted shall correspond to all of the requirements specified for each lot. Bid Security as required by **ITB** Clause 18 shall be submitted for each contract (lot) separately. The basis for evaluation of lots is specified in **BDS** Clause 27.3.

28. Post Qualification

28.1. The BAC shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid complies with and is responsive to all the requirements and conditions specified in **ITB** Clauses 5, 12, and 13.

28.2. 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**.

Failure to submit any of the post-qualification requirements on time, or a finding against the veracity thereof, shall disqualify the Bidder for award. Provided in the event that a finding against the veracity of any of the documents submitted is made, it shall cause the forfeiture of the bid security in accordance with Section 69 of the IRR of RA 9184.

28.3. The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted pursuant to **ITB** Clauses 12and 13, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary "pass/fail" criterion, which shall be completed within a period of twelve (12) calendar days.

28.4. If the BAC determines that the Bidder with the Lowest Calculated Bid passes all the criteria for post-qualification, it shall declare the said bid as the LCRB, and recommend to the HoPE the award of contract to the said Bidder at its submitted price or its calculated bid price, whichever is lower, subject to **ITB** Clause 30.3.

28.5. A negative determination shall result in rejection of the Bidder's bid, in which event the Procuring Entity shall proceed to the next Lowest Calculated Bid, with a fresh period to make a similar determination of that Bidder's capabilities to perform satisfactorily. If the second Bidder, however, fails the post qualification, the procedure for post qualification shall be repeated for the Bidder with the next Lowest Calculated Bid, and so on until the LCRB is determined for recommendation of contract award.

28.6. Within a period not exceeding fifteen (15) calendar days from the determination by the BAC of the LCRB and the recommendation to award the contract, the HoPE or his duly authorized representative shall approve or disapprove the said recommendation.

28.7. In the event of disapproval, which shall be based on valid, reasonable, and justifiable grounds as provided for under Section 41 of the IRR of RA 9184, the HoPE shall notify the BAC and the Bidder in writing of such decision and the grounds for it. When applicable, the BAC shall conduct a post-qualification of the Bidder with the next Lowest Calculated Bid. A request for reconsideration may be filed by the Bidder with the HoPE in accordance with Section 37.1.3 of the IRR of RA 9184.

29. Reservation Clause

29.1. Notwithstanding the eligibility or post-qualification of a Bidder, the Procuring Entity concerned reserves the right to review its qualifications at any stage of the procurement process if it has reasonable grounds to believe that a misrepresentation has been made by the said Bidder, or that there has been a change in the Bidder's capability to undertake the project from the time it submitted its eligibility requirements. Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will affect its capability to undertake the project so that it fails the preset eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as

ineligible and shall disqualify it from submitting a bid or from obtaining an award or contract.

29.2. Based on the following grounds, the Procuring Entity reserves the right to reject any and all Bids, declare a Failure of Bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:

(a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the Bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;

(b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or

(c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOPas follows:

(i) If the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the HoPE;

(ii) If the project is no longer necessary as determined by the HoPE; and

(iii) If the source of funds for the project has been withheld or reduced through no fault of the Procuring Entity.

29.3. In addition, the Procuring Entity may likewise declare a failure of bidding when:

(a) No bids are received;

(b) All prospective Bidders are declared ineligible;

(c) All bids fail to comply with all the bid requirements, fail post-qualification; or

(d) The Bidder with the LCRB refuses, without justifiable cause, to accept the award of contract, and no award is made in accordance with Section 40 of the IRR of RA 9184.

F. Award of Contract

30. Contract Award

30.1. Subject to **ITB** Clause 28, the HoPE or its duly authorized representative shall award the contract to the Bidder whose bid has been determined to be the LCRB.

30.2. Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award duly received by the Bidder or its representative personally or by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.

30.3. Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:

(a) Valid PCAB license and registration for the type and cost of the contract to be bid for foreign bidders when the Treaty or International or Executive Agreement expressly allows submission of the PCAB license and registration for the type and cost of the contract to be bid as a pre-condition to the Award;

(b) Posting of the performance security in accordance with **ITB** Clause 32;

(c) Signing of the contract as provided in **ITB** Clause 31; and

(d) Approval by higher authority, if required, as provided in Section 37.3 of the IRR of RA 9184.

31. Signing of the Contract

31.1. At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Contract Form to the Bidder, which Contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.

31.2. Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security, sign and date the contract and return it to the Procuring Entity.

31.3. The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.

31.4. The following documents shall form part of the contract:

(a) Contract Agreement;

(b) Bidding Documents;

(c) Winning Bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including

corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

(d) Performance Security;

(e) Notice of Award of Contract; and

(f) Other contract documents that may be required by existing laws and/or specified in the **BDS**.

32. Performance Security

32.1. To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.

32.2. The Performance Security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount not less than the percentage of the total contract price in accordance with the following schedule:

Form of Performance Security	Amount of Performance Security (Not less than the Percentage of the Total Contract Price)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank. *For biddings conducted by the LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.*	Ten percent (10%)
(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. *For biddings conducted by the LGUs, Bank Draft/Guarantee, or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such*	

financial instrument.	
(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%)

32.3. Failure of the successful Bidder to comply with the above-mentioned requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event the Procuring Entity shall have a fresh period to initiate and complete the post qualification of the second Lowest Calculated Bid. The procedure shall be repeated until LCRB is identified and selected for recommendation of contract award. However if no Bidder passed post-qualification, the BAC shall declare the bidding a failure and conduct a re-bidding with re-advertisement, if necessary.

33. Notice to Proceed

Within seven (7) calendar days from the date of approval of the Contract by the appropriate government approving authority, the Procuring Entity shall issue the Notice to Proceed (NTP) together with a copy or copies of the approved contract to the successful Bidder. All notices called for by the terms of the contract shall be effective only at the time of receipt thereof by the successful Bidder.

34. Protest Mechanism

Decision of the procuring entity at any stage of the procurement process may be questioned in accordance with Sections 55 of the IRR of RA 9184.

Section III. Bid Data Sheet

4

Bid Data Sheet

ITB Clause	
1.1	The Procuring Entity is *the **Procurement Service (PS)***.
1.2	The name of the Contract is CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER (DOH-TRC)-DULAG, LEYTE The identification number of the Contract is PUBLIC BIDDING NO. 19-232-2
2	The Funding Source is: The Government of the Philippines (GoP) through the *General Appropriations Act for 2017* in the amount of ***Two Million Eight Hundred Eighty Thousand Pesos only*** (Php 2,880,000.00). The name of the Project is CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER (DOH-TRC)- DULAG, LEYTE
3.1	No further instructions.
5.1	No further instructions.
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4(b)	For this purpose, similar contracts shall refer to **General Building Construction**.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on July 26, 2019; 1:30 PM at Procurement Service Bids and Awards Committee II 2nd Floor, PS Complex, RR Road Cristobal St., Paco, Manila
10.1	Clarifications should be sent to: PROCUREMENT SERVICE - DBM Bids and Awards Committee II R.R. Road, Cristobal St., Paco, Manila Telephone No: 689-7750 loc. 4031 Pd2@ps-philgeps.gov.ph

10.4	No further instructions.
12.1	No further instructions.
12.1 (a) (i)	The valid PhilGEPS Certificate of Registration (Platinum Membership) shall reflect the updated eligibility documents. Should the Annex A of said Certificate reflects not updated documents, the bidder shall submit, together with the Certificate certified true copies of the updated documents. Notwithstanding the above requirements, the bidder may opt to submit the following eligibility documents in lieu of the submission of the PhilGEPS Certificate of Registration (Platinum Membership): ***a. Business Registration;*** ***b. 2019 Mayor's Permit;*** ***c. 2018 Audited Financial Statement;*** ***d. Valid and current Tax Clearance*** ***e. Valid and Applicable PCAB License*** In the latter case, the bidder shall submit a valid PhilGEPS Registration Certificate as part of post-qualification documents.
12.1 (a) (ii)	Bidders must also submit the following: 1. Duly signed Statement of all Ongoing Government & Private Construction Contracts including contracts awarded but not yet started. *The supporting documents stated in the said form shall be submitted during post-qualification evaluation* 2. Duly signed Statement showing the bidder's Single Largest Completed Contract which is similar in nature. *The supporting documents stated in the said form shall form part of the Technical Eligibility requirements.* See sample forms under Section IX. Bidding Forms.
12.1(a)(iii)	The minimum valid and applicable PCAB Registration required for this project is **Small B, for General Building Construction**/ Special PCAB License in case of Joint Venture

<table>
<tr><td>12.1(b)(ii.2)</td><td>The minimum work experience requirements for key personnel are the following:

<table>
<tr><th>Key Personnel</th><th>Minimum Years of Relevant Experience</th><th>No. of Personnel</th></tr>
<tr><td>Project Engineer (Registered Civil Engineer)</td><td>2</td><td>1</td></tr>
<tr><td>Electrical Engineer (Registered Electrical Engineer)</td><td>2</td><td>1</td></tr>
<tr><td>Construction Foreman</td><td>3</td><td>1</td></tr>
<tr><td>Safety Officer</td><td>2</td><td>1</td></tr>
</table>

Relevant Experience with respect to the projects as defined under BDS Clause 5.4 (b).

See sample forms under Section IX. Bidding Forms.</td></tr>
<tr><td>12.1(b)(ii.3)</td><td>The minimum major equipment requirements are the following:

<table>
<tr><th>Item No.</th><th>Number of Units</th><th>Equipment</th></tr>
<tr><td>1.</td><td>1</td><td>Concrete Bagger Mixer</td></tr>
<tr><td>2.</td><td>1</td><td>Concrete Vibrator</td></tr>
</table>

Note: The bidder may choose the ff. options:

1. Proof of ownership to be included in the Technical Proposal; or

2. Lease Agreement between lessor and lessee and Proof of Ownership of the Lessor to be included in the Technical Proposal; or

3.Purchase Agreement between the bidder and the owner. Certification of availability of equipment from the vendor for the duration of the project

Equipment pledge to this project shall not be pledge to another construction project, if the same will affect the completion time.
However such equipment will be acceptable provided that it will not coincide with another construction project schedule.

See sample forms under Section IX. Bidding Forms.</td></tr>
<tr><td>13.1(b)</td><td>This shall include all of the following documents:

1) Detailed Estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and

2) Cash flow by quarter or payment schedule.</td></tr>
<tr><td>13.2</td><td>The ABC is Two Million Eight Hundred Eighty Thousand Pesos Only (Php 2,880,000.00). Any bid with a financial component exceeding this</td></tr>
</table>

	amount shall not be accepted.
14.2	No further instruction.
16.1	The bid prices shall be quoted in Philippine Pesos.
16.3	No further instructions.
17.1	The Bid Security shall be valid for ***One Hundred Twenty (120) Calendar Days*** from the date of opening of bids.
18.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:

Lot	Item/Description	Amount		Bid Securing Declaration (Pursuant to GPPB Resolution No. 03-2012)
		Cash, Cashier's/Manager's Check, Bank Draft/Guarantee or Irrevocable Letter of Credit (2%)	Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5%)	
1	CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER-DULAG, LEYTE	P 57,600.00	P 144,000.00	Please refer to Section IX Bidding Forms

The Bid Security in the form of cashier's/manager's check shall be payable to ***PROCUREMENT SERVICE.***

18.2	The Bid Security shall be valid for ***One Hundred Twenty (120) Calendar Days*** from the date of opening of bids.
20.3	Each Bidder shall submit One (1) original and Two (2) copies of the first and second components of its bid. The duplicate- *i.e. copy 1 and copy 2,* must include the same documents as that of the original set of documents. In case, however, a bidder opts to submit cash as bid security, copy 1 and copy 2 need not contain photocopies of the same.
21	The address for submission of bids is: *Procurement Service* *Bids and Awards Committee II* *2nd Floor, PS Complex, RR Road*

	Cristobal St., Paco, Manila The deadline for submission of bids is on **August 09, 2019; 1:30 PM.**
24.1	The place of bid opening is: *PS Conference Room* *2nd Floor, PS Complex, RR Road* *Cristobal St., Paco, Manila* The bid opening will be held immediately after the deadline of submission of bids. During the opening of bids only the authorized representative shall be allowed to assist in the opening of bids. In case the authorized representative is not present, any representative of the authorized representative may be allowed to assist in the opening of bids provided that a separate written authorization from the authorized representative shall be presented for the purpose. Provided that the authorized representative is duly authorized to issue such further authority and the same is reflected in the Board Resolution and/or Secretary's Certificate.
24.2	No further instructions.
24.3	No further instructions.
27.3	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
27.4	No further instructions.
28.2	No licenses and permits required. For purposes of Post-qualification the following document(s) shall be required to be submitted within five (5) calendar days from receipt of notice from the BAC: 1. Income Tax Returns for year **2018** (BIR Form 1701 or 1702); 2. Latest Value Added Tax Returns (Forms 2550M and 2550Q) or Percentage Tax Returns (Form 2551M) for the last six (6) months. For this requirement, it is considered as latest return when filed within the last two (2) months before the deadline of the submission of bids. The income tax and business tax returns stated above should have been filed through the Electronic Filing and Payment System (eFPS). 3. Proof of completion of the single largest contract as identified in the Statement of Single Largest Contract, which shall include the following:

	a. Owner's certificate of final acceptance issued by the project owner; or b. Contractor's Performance Evaluation System (CPES) rating sheet with at least satisfactory rating or Certificate of Completion and/or Owner's Acceptance. 4. Proof of Ongoing and Awarded Contracts but not yet started contracts as identified in the Statement of All Ongoing Government & Private Contracts, which shall include the following: a. Notice to Proceed or equivalent; and b. Certificate of accomplishments signed by the Owner or Owner's Project Engineer or in case the project was just awarded or still in the mobilization stage, a certification in lieu of the certificate of accomplishment signed by the Owner or Owner's Project Engineer should be submitted. 5. Submission of evidences[2] as proof of compliance with the bidder's actual offer, *if applicable*. 6. Valid PhilGEPS Certificate of Registration (Platinum Membership), if bidder opted to submit the eligibility documents under the Certificate during opening of bids. *N.B. Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies from the original.*

[2] *In the column "Bidder's Compliance", the bidder must state "comply" against each of the individual parameters of each specification corresponding to performance parameter of equipment offered. Statement of "comply" must be supported by evidence in a bidders bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's or distributor's un-amended sales literature, unconditional statements or specification and compliance issued by the manufacturer or distributor, samples, independent test data etc., as appropriate.*

31.4(f)	The following documents shall be submitted by the winning bidder within ***ten (10) calendar days*** from receipt of the Notice of Award (NOA): a) Construction Schedule and S-curve; b) Manpower Schedule; c) Construction Methods; d) Equipment utilization schedule; e) Construction Safety and Health Program approved by the Department of Labor and Employment, evidence of submission as received by DOLE is acceptable). f) Program Evaluation and Review Technique (PERT)/Critical Path Method (CPM).

Section IV. General Conditions of Contract

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1. Definitions

For purposes of this Clause, boldface type is used to identify defined terms.

1.1. The **Arbiter** is the person appointed jointly by the Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in **GCC** Clause 21.

1.2. **Bill of Quantities** refers to a list of the specific items of the Work and their corresponding unit prices, lump sums, and/or provisional sums.

1.3. The **Completion Date** is the date of completion of the Works as certified by the Procuring Entity's Representative, in accordance with **GCC** Clause 49.

1.4. The **Contract** is the contract between the Procuring Entity and the Contractor to execute, complete, and maintain the Works.

1.5 The **Contract Effectivity Date** is the date of signing of the Contract. However, the contractor shall commence execution of the Works on the Start Date as defined in GCC Clause 1.28.

1.6 The **Contract Price** is the price stated in the Notice of Award and thereafter to be paid by the Procuring Entity to the Contractor for the execution of the Works in accordance with this Contract

1.7 **Contract Time Extension** is the allowable period for the Contractor to complete the Works in addition to the original Completion Date stated in this Contract.

1.8 The **Contractor** is the juridical entity whose proposal has been accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded.

1.9 The **Contractor's Bid** is the signed offer or proposal submitted by the Contractor to the Procuring Entity in response to the Bidding Documents.

1.10 **Days** are calendar days; months are calendar months.

1.11 **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.

1.12 A **Defect** is any part of the Works not completed in accordance with the Contract.

1.13 The **Defects Liability Certificate** is the certificate issued by Procuring Entity's Representative upon correction of defects by the Contractor.

1.14 The **Defects Liability Period** is the one year period between contract completion and final acceptance within which the Contractor assumes the responsibility to undertake the repair of any damage to the Works at his own expense.

1.15 **Drawings** are graphical presentations of the Works. They include all supplementary details, shop drawings, calculations, and other information provided or approved for the execution of this Contract.

1.16 **Equipment** refers to all facilities, supplies, appliances, materials or things required for the execution and completion of the Work provided by the Contractor and which shall not form or are not intended to form part of the Permanent Works.

1.17 The **Intended Completion Date** refers to the date specified in the **SCC** when the Contractor is expected to have completed the Works. The Intended Completion Date may be revised only by the Procuring Entity's Representative by issuing an extension of time or an acceleration order.

1.18 **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.

1.19 The **Notice to Proceed** is a written notice issued by the Procuring Entity or the Procuring Entity's Representative to the Contractor requiring the latter to begin the commencement of the work not later than a specified or determinable date.

1.20 **Permanent Works** are all permanent structures and all other project features and facilities required to be constructed and completed in accordance with this Contract which shall be delivered to the Procuring Entity and which shall remain at the Site after the removal of all Temporary Works.

1.21 **Plant** refers to the machinery, apparatus, and the like intended to form an integral part of the Permanent Works.

1.22 The **Procuring Entity** is the party who employs the Contractor to carry out the Works stated in the **SCC**.

1.23 The **Procuring Entity's Representative** refers to the Head of the Procuring Entity or his duly authorized representative, identified in the **SCC**, who shall be responsible for supervising the execution of the Works and administering this Contract.

1.24 The **Site** is the place provided by the Procuring Entity where the Works shall be executed and any other place or places which may be designated in the **SCC**, or notified to the Contractor by the Procuring Entity's Representative as forming part of the Site.

1.25 **Site Investigation Reports** are those that were included in the Bidding Documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.

1.26 **Slippage** is a delay in work execution occurring when actual accomplishment falls below the target as measured by the difference between the scheduled and actual accomplishment of the Work by the Contractor as established from the work schedule. This is actually described as a percentage of the whole Works.

1.27 **Specifications** means the description of Works to be done and the qualities of materials to be used, the equipment to be installed and the mode of construction.

1.28 The **Start Date**, as specified in the **SCC**, is the date when the Contractor is obliged to commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

1.29 A **Subcontractor** is any person or organization to whom a part of the Works has been subcontracted by the Contractor, as allowed by the Procuring Entity, but not any assignee of such person.

1.30 **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Permanent Works.

1.31 **Work(s)**refer to the Permanent Works and Temporary Works to be executed by the Contractor in accordance with this Contract, including (i) the furnishing of all labor, materials, equipment and others incidental, necessary or convenient to the complete execution of the Works; (ii) the passing of any tests before acceptance by the Procuring Entity's Representative; (iii) and the carrying out of all duties and obligations of the Contractor imposed by this Contract as described in the **SCC.**

2. Interpretation

2.1. In interpreting the Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of this Contract unless specifically defined. The Procuring Entity's Representative will provide instructions clarifying queries about the Conditions of Contract.

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

2.3. The documents forming this Contract shall be interpreted in the following order of priority:

a) Contract Agreement;

b) Bid Data Sheet;

c) Instructions to Bidders;

d) Addenda to the Bidding Documents;

e) Special Conditions of Contract;

f) General Conditions of Contract;

g) Specifications;

h) Bill of Quantities; and

i) Drawings.

3. Governing Language and Law

3.1. This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract which are exchanged by the parties shall be written in English.

3.2. This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.

4. Communications

Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is received by the concerned party.

5. Possession of Site

5.1. On the date specified in the **SCC**, the Procuring Entity shall grant the Contractor possession of so much of the Site as may be required to enable it to proceed with 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.

5.2. If possession of a portion is not given by the date stated in the SCC Clause 5.1, 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 shall be in accordance with **GCC** Clause 47.

5.3. The Contractor shall bear all costs and charges for special or temporary right-of-way required by it in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by it for purposes of the Works.

5.4. The Contractor shall allow the Procuring Entity's Representative and any person authorized by the Procuring Entity's Representative access to the Site and to any place where work in connection with this Contract is being carried out or is intended to be carried out.

6. The Contractor's Obligations

6.1. The Contractor shall carry out the Works properly and in accordance with this Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment, which may be required. All Materials and Plant on Site shall be deemed to be the property of the Procuring Entity.

6.2. The Contractor shall commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program of Work submitted by the Contractor, as updated with the approval of the Procuring Entity's Representative, and complete them by the Intended Completion Date.

6.3. The Contractor shall be responsible for the safety of all activities on the Site.

6.4. The Contractor shall carry out all instructions of the Procuring Entity's Representative that comply with the applicable laws where the Site is located.

6.5. The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the **SCC**, 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.

6.6. If the Procuring Entity's Representative asks the Contractor to remove a member of the Contractor's staff or work force, for justifiable cause, the Contractor shall ensure that the person leaves the Site within seven (7) days and has no further connection with the Work in this Contract.

6.7. During Contract implementation, the Contractor and his subcontractors shall abide at all times by all labor laws, including child labor related enactments, and other relevant rules.

6.8. The Contractor shall submit to the Procuring Entity for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.

6.9. The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Procuring Entity between the dates given in the schedule of other contractors particularly when they shall require access to the Site. The Contractor shall also provide facilities and services for them during this period. The Procuring Entity may modify the schedule of other contractors, and shall notify the Contractor of any such modification thereto.

6.10. Should anything of historical or other interest or of significant value be unexpectedly discovered on the Site, it shall be the property of the Procuring Entity. The Contractor shall notify the Procuring Entity's Representative of such discoveries and carry out the Procuring Entity's Representative's instructions in dealing with them.

7. Performance Security

7.1. 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 Contractor shall furnish the performance security in any of the forms prescribed in **ITB** Clause 32.2.

7.2. The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the Contractor is in default in any of its obligations under the Contract.

7.3. The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.

7.4. The performance security may be released by the Procuring Entity and returned to the Contractor after the issuance of the Certificate of Final Acceptance subject to the following conditions:

(a) There are no pending claims against the Contractor or the surety company filed by the Procuring Entity;

(b) The Contractor has no pending claims for labor and materials filed against it; and

(c) Other terms specified in the **SCC**.

7.5. The Contractor shall post an additional performance security following the amount and form specified in **ITB** Clause 32.2 to cover any cumulative increase of more than ten percent (10%) over the original value of the contract as a result of amendments to order or change orders, extra work orders and supplemental agreements, as the case may be. The Contractor shall cause the extension of the validity of the performance security to cover approved contract time extensions.

7.6. In case of a reduction in the contract value or for partially completed Works under the contract which are usable and accepted by the Procuring Entity the use of which, in the judgment of the implementing agency or the Procuring Entity, will not affect the structural integrity of the entire project, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

7.7. Unless otherwise indicated in the **SCC**, the Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to Act 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.

8. Subcontracting

8.1. Unless otherwise indicated in the **SCC**, the Contractor cannot subcontract Works more than the percentage specified in **BDS** Clause 8.1.

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

8.3. If subcontracting is allowed. The contractor may identify its subcontractor during contract implementation stage. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract. In either case, subcontractors must submit the documentary requirements under ITB Clause 12 and comply with the eligibility criteria specified in the **BDS**. In the event that any subcontractor is found by any Procuring Entity to be eligible, the subcontracting of such portion of the Works shall be disallowed.

9. Liquidated Damages

9.1. The Contractor shall pay liquidated damages to the Procuring Entity for each day that the Completion Date is later than the Intended Completion Date. The applicable liquidated damages is at least one-tenth (1/10) of a percent of the cost of the unperformed portion for every day of delay. The Procuring Entity shall deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of this Contract, the Procuring Entity may rescind or terminate this Contract, without prejudice to other courses of action and remedies available under the circumstances.

9.2. If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer of the Procuring Entity shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.

10. 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.

11. The Procuring Entity, Licenses and Permits

The Procuring Entity shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals, which are required for the Works.

12. Contractor's Risk and Warranty Security

12.1. The Contractor shall assume full responsibility for the Works from the time project construction commenced up to final acceptance by the Procuring Entity and shall be held responsible for any damage or destruction of the Works except those occasioned by *force majeure*. The Contractor shall be fully responsible for the safety, protection, security, and convenience of his

personnel, third parties, and the public at large, as well as the Works, Equipment, installation, and the like to be affected by his construction work.

12.2. The defects liability period for infrastructure projects shall be one year from contract completion up to final acceptance by the Procuring Entity. During this period, the Contractor shall undertake the repair works, at his own expense, of any damage to the Works on account of the use of materials of inferior quality within ninety (90) days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.

12.3. Unless otherwise indicated in the **SCC**, in case the Contractor fails to comply with the preceding paragraph, 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.

12.4. After final acceptance of the Works by the Procuring Entity, the Contractor shall be held responsible for "Structural Defects," *i.e.*, major faults/flaws/deficiencies in one or more key structural elements of the project which may lead to structural failure of the completed elements or structure, or "Structural Failures," *i.e.*, where one or more key structural elements in an infrastructure facility fails or collapses, thereby rendering the facility or part thereof incapable of withstanding the design loads, and/or endangering the safety of the users or the general public:

(a) Contractor – Where Structural Defects/Failures arise due to faults attributable to improper construction, use of inferior quality/substandard materials, and any violation of the contract plans and specifications, the contractor shall be held liable;

(b) Consultants – Where Structural Defects/Failures arise due to faulty and/or inadequate design and specifications as well as construction supervision, then the consultant who prepared the design or undertook construction supervision for the project shall be held liable;

(c) Procuring Entity's Representatives/Project Manager/Construction Managers and Supervisors – The project owner's representative(s), project manager, construction manager, and supervisor(s) shall be held liable in cases where the Structural Defects/Failures are due to his/their willful intervention in altering the designs and other specifications; negligence or omission in not approving or acting on proposed changes to noted defects or deficiencies in the design and/or specifications; and the use of substandard construction materials in the project;

(d) Third Parties - Third Parties shall be held liable in cases where Structural Defects/Failures are caused by work undertaken by them such as leaking pipes, diggings or excavations, underground cables and electrical wires, underground tunnel, mining shaft and the like, in

which case the applicable warranty to such structure should be levied to third parties for their construction or restoration works.

(e) Users - In cases where Structural Defects/Failures are due to abuse/misuse by the end user of the constructed facility and/or non–compliance by a user with the technical design limits and/or intended purpose of the same, then the user concerned shall be held liable.

12.5. The warranty against Structural Defects/Failures, except those occasioned on force majeure, shall cover the period specified in the **SCC** reckoned from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity.

12.6. The Contractor shall be required to put up a warranty security in the form of cash, bank guarantee, letter of credit, GSIS or surety bond callable on demand, in accordance with the following schedule:

Form of Warranty	Amount of Warranty Security Not less than the Percentage (%) of Total Contract Price
(a) Cash or letter of credit issued by 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%)
(b) Bank guarantee confirmed by 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	Ten Percent (10%)
(c) Surety bond callable upon demand issued by GSIS or any surety or insurance company duly certified by the Insurance Commission	Thirty Percent (30%)

12.7. The warranty security shall be stated in Philippine Pesos and shall remain effective for one year from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity, and returned only after the lapse of said one year period.

12.8. In case of structural defects/failure occurring during the applicable warranty period provided in **GCC** Clause 12.5, the Procuring Entity shall undertake the necessary restoration or reconstruction works and shall be entitled to full reimbursement by the parties found to be liable for expenses incurred therein upon demand, without prejudice to the filing of appropriate administrative, civil, and/or criminal charges against the responsible persons as well as the forfeiture of the warranty security posted in favor of the Procuring Entity.

13. 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.

14. Procuring Entity's Risk

14.1. From the Start Date until the Certificate of Final Acceptance has been issued, the following are risks of the Procuring Entity:

(a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to:

(i) any type of use or occupation of the Site authorized by the Procuring Entity after the official acceptance of the works; or

(ii) negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed by or contracted to him except the Contractor.

(b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

15. Insurance

15.1. The Contractor shall, under his name and at his own expense, obtain and maintain, for the duration of this Contract, the following insurance coverage:

(a) Contractor's All Risk Insurance;

(b) Transportation to the project Site of Equipment, Machinery, and Supplies owned by the Contractor;

(c) Personal injury or death of Contractor's employees; and

(d) Comprehensive insurance for third party liability to Contractor's direct or indirect act or omission causing damage to third persons.

15.2. The Contractor shall provide evidence to the Procuring Entity's Representative that the insurances required under this Contract have been effected and shall, within a reasonable time, provide copies of the insurance policies to the Procuring Entity's Representative. Such evidence and such policies shall be provided to the Procuring Entity's through the Procuring Entity's Representative.

15.3. The Contractor shall notify the insurers of changes in the nature, extent, or program for the execution of the Works and ensure the adequacy of the insurances at all times in accordance with the terms of this Contract and shall

produce to the Procuring Entity's Representative the insurance policies in force including the receipts for payment of the current premiums.

The above insurance policies shall be obtained from any reputable insurance company approved by the Procuring Entity's Representative.

15.4. If the Contractor fails to obtain and keep in force the insurances referred to herein or any other insurance which he may be required to obtain under the terms of this Contract, the Procuring Entity may obtain and keep in force any such insurances and pay such premiums as may be necessary for the purpose. From time to time, the Procuring Entity may deduct the amount it shall pay for said premiums including twenty five percent (25%) therein from any monies due, or which may become due, to the Contractor, without prejudice to the Procuring Entity exercising its right to impose other sanctions against the Contractor pursuant to the provisions of this Contract.

15.5. In the event the Contractor fails to observe the above safeguards, the Procuring Entity may, at the Contractor's expense, take whatever measure is deemed necessary for its protection and that of the Contractor's personnel and third parties, and/or order the interruption of dangerous Works. In addition, the Procuring Entity may refuse to make the payments under **GCC** Clause 40 until the Contractor complies with this Clause.

15.6. The Contractor shall immediately replace the insurance policy obtained as required in this Contract, without need of the Procuring Entity's demand, with a new policy issued by a new insurance company acceptable to the Procuring Entity for any of the following grounds:

(a) The issuer of the insurance policy to be replaced has:

(i) become bankrupt;

(ii) been placed under receivership or under a management committee;

(iii) been sued for suspension of payment; or

(iv) been suspended by the Insurance Commission and its license to engage in business or its authority to issue insurance policies cancelled; or

(v) Where reasonable grounds exist that the insurer may not be able, fully and promptly, to fulfill its obligation under the insurance policy.

16. Termination for Default of Contractor

16.1. The Procuring Entity shall terminate this Contract for default when any of the following conditions attend its implementation:

(i) Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in

accordance with Presidential Decree 1870, regardless of whether or not previous warnings and notices have been issued for the Contractor to improve his performance;

(ii) Due to its own fault and after this Contract time has expired, the Contractor incurs delay in the completion of the Work after this Contract has expired; or

(iii) The Contractor:

(i) abandons the contract Works, refuses or fails to comply with a valid instruction of the Procuring Entity or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;

(ii) does not actually have on the project Site the minimum essential equipment listed on the bid necessary to prosecute the Works in accordance with the approved Program of Work and equipment deployment schedule as required for the project;

(iii) does not execute the Works in accordance with this Contract or persistently or flagrantly neglects to carry out its obligations under this Contract;

(iv) neglects or refuses to remove materials or to perform a new Work that has been rejected as defective or unsuitable; or

(v) sub-lets any part of this Contract without approval by the Procuring Entity.

16.2. All materials on the Site, Plant, Works, including Equipment purchased and funded under the Contract shall be deemed to be the property of the Procuring Entity if this Contract is rescinded because of the Contractor's default.

17. Termination for Default of Procuring Entity

The Contractor may terminate this Contract with the Procuring Entity if the works are completely stopped for a continuous period of at least sixty (60) calendar days through no fault of its own, due to any of the following reasons:

(a) Failure of the Procuring Entity to deliver, within a reasonable time, supplies, materials, right-of-way, or other items it is obligated to furnish under the terms of this Contract; or

(b) The prosecution of the Work is disrupted by the adverse peace and order situation, as certified by the Armed Forces of the Philippines Provincial Commander and approved by the Secretary of National Defense.

18. Termination for Other Causes

18.1. The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The HoPE may terminate this Contract for the

convenience of the Procuring Entity if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and National Government policies.

18.2. The Procuring Entity or the Contractor may terminate this Contract if the other party causes a fundamental breach of this Contract.

18.3. Fundamental breaches of Contract shall include, but shall not be limited to, the following:

(a) The Contractor stops work for twenty eight (28) days when no stoppage of work is shown on the current Program of Work and the stoppage has not been authorized by the Procuring Entity's Representative;

(b) The Procuring Entity's Representative instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within twenty eight (28) days;

(c) The Procuring Entity shall terminate this Contract if the Contractor is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Contractor. In the case of the Contractor's insolvency, any Contractor's Equipment which the Procuring Entity instructs in the notice is to be used until the completion of the Works;

(d) A payment certified by the Procuring Entity's Representative is not paid by the Procuring Entity to the Contractor within eighty four (84) days from the date of the Procuring Entity's Representative's certificate;

(e) The Procuring Entity's Representative gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Procuring Entity's Representative;

(f) The Contractor does not maintain a Security, which is required;

(g) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the **GCC** Clause 9; and

(h) 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, the following:

(i) corrupt, fraudulent, collusive, coercive, and obstructive practices as defined in **ITB** Clause 3.1(a), unless otherwise specified in the SCC;

(ii) drawing up or using forged documents;

(iii) using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and

(iv) any other act analogous to the foregoing.

18.4. The Funding Source or the Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with corrupt, fraudulent, or coercive practices.

18.5. When persons from either party to this Contract gives notice of a fundamental breach to the Procuring Entity's Representative in order to terminate the existing contract for a cause other than those listed under **GCC** Clause 18.3, the Procuring Entity's Representative shall decide whether the breach is fundamental or not.

18.6. If this Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

19. Procedures for Termination of Contracts

19.1. The following provisions shall govern the procedures for the termination of this Contract:

(a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Procuring Entity shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;

(b) Upon recommendation by the Procuring Entity, the HoPE shall terminate this Contract only by a written notice to the Contractor conveying the termination of this Contract. The notice shall state:

(i) that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;

(ii) the extent of termination, whether in whole or in part;

(iii) an instruction to the Contractor to show cause as to why this Contract should not be terminated; and

(iv) special instructions of the Procuring Entity, if any.

The Notice to Terminate shall be accompanied by a copy of the Verified Report;

(c) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Contractor shall submit to the HoPE a verified position paper stating why the contract should not be terminated. If the Contractor fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the HoPE shall issue an order terminating the contract;

(d) The Procuring Entity may, at anytime before receipt of the Contractor's verified position paper described in item (c) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Contractor's receipt of the notice;

(e) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the HoPE shall decide whether or not to terminate this Contract. It shall serve a written notice to the Contractor of its decision and, unless otherwise provided in the said notice, this Contract is deemed terminated from receipt of the Contractor of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate; and

(f) The HoPE may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the HoPE.

19.2. Pursuant to Section 69(f) of RA 9184 and without prejudice to the imposition of additional administrative sanctions as the internal rules of the agency may provide and/or further criminal prosecution as provided by applicable laws, the procuring entity shall impose on contractors after the termination of the contract the penalty of suspension for one (1) year for the first offense, suspension for two (2) years for the second offense from participating in the public bidding process, for violations committed during the contract implementation stage, which include but not limited to the following:

(a) Failure of the contractor, due solely to his fault or negligence, to mobilize and start work or performance within the specified period in the Notice to Proceed ("NTP");

(b) Failure by the contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the contractor to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract. For the procurement of infrastructure projects or consultancy contracts, lawful instructions include but are not limited *to* the following:

(i) Employment of competent technical personnel, competent engineers and/or work supervisors;

(ii) Provision of warning signs and barricades in accordance with approved plans and specifications and contract provisions;

(iii) Stockpiling in proper places of all materials and removal from the project site of waste and excess materials, including broken pavement and excavated debris in accordance with approved plans and specifications and contract provisions;

(iv) Deployment of committed equipment, facilities, support staff and manpower; and

(v) Renewal of the effectivity dates of the performance security after its expiration during the course of contract implementation.

(c) Assignment and subcontracting of the contract or any part thereof or substitution of key personnel named in the proposal without prior written approval by the procuring entity.

(d) Poor performance by the contractor or unsatisfactory quality and/or progress of work arising from his fault or negligence as reflected in the Constructor's Performance Evaluation System ("CPES") rating sheet. In the absence of the CPES rating sheet, the existing performance monitoring system of the procuring entity shall be applied. Any of the following acts by the Contractor shall be construed as poor performance:

(i) Negative slippage of 15% and above within the critical path of the project due entirely to the fault or negligence of the contractor; and

(ii) Quality of materials and workmanship not complying with the approved specifications arising from the contractor's fault or negligence.

(e) Willful or deliberate abandonment or non-performance of the project or contract by the contractor resulting to substantial breach thereof without lawful and/or just cause.

In addition to the penalty of suspension, the performance security posted by the contractor shall also be forfeited.

20. Force Majeure, Release From Performance

20.1. For purposes of this Contract the terms "*force majeure*" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which the Contractor could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Contractor.

20.2. If this Contract is discontinued by an outbreak of war or by any other event entirely outside the control of either the Procuring Entity or the Contractor, the Procuring Entity's Representative shall certify that this Contract has been discontinued. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any Work carried out afterwards to which a commitment was made.

20.3. If the event continues for a period of eighty four (84) days, either party may then give notice of termination, which shall take effect twenty eight (28) days after the giving of the notice.

20.4. After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the materials and Plant reasonably delivered to the Site, adjusted by the following:

(a) any sum to which the Contractor is entitled under **GCC** Clause 28;

(b) the cost of his suspension and demobilization;

(c) any sum to which the Procuring Entity is entitled.

20.5. The net balance due shall be paid or repaid within a reasonable time period from the time of the notice of termination.

21. Resolution of Disputes

21.1. If any dispute or difference of any kind whatsoever shall arise between the parties in connection with the implementation of the contract covered by the Act and this IRR, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

21.2. If the Contractor believes that a decision taken by the Procuring Entity's Representative was either outside the authority given to the Procuring Entity's Representative by this Contract or that the decision was wrongly taken, the decision shall be referred to the Arbiter indicated in the **SCC** within fourteen (14) days of the notification of the Procuring Entity's Representative's decision.

21.3. Any and all disputes arising from the implementation of this Contract covered by the R.A. 9184 and its IRR shall be submitted to arbitration in the Philippines according to the provisions of Republic Act No. 876, otherwise known as the " Arbitration Law" and Republic Act 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004": *Provided, however*, That, disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be referred thereto. The process of arbitration shall be incorporated as a provision in this Contract that will be executed pursuant to the provisions of the Act and its IRR: *Provided, further,* That, by mutual agreement, the parties may agree in writing to resort to other alternative modes of dispute resolution.

22. Suspension of Loan, Credit, Grant, or Appropriation

In the event that the Funding Source suspends the Loan, Credit, Grant, or Appropriation to the Procuring Entity, from which part of the payments to the Contractor are being made:

(a) The Procuring Entity is obligated to notify the Contractor of such suspension within seven (7) days of having received the suspension notice.

(b) If the Contractor has not received sums due it for work already done within forty five (45) days from the time the Contractor's claim for payment has been certified by the Procuring Entity's Representative, the Contractor may immediately issue a suspension of work notice in accordance with **GCC** Clause 45.2.

23. Procuring Entity's Representative's Decisions

23.1. Except where otherwise specifically stated, the Procuring Entity's Representative will decide contractual matters between the Procuring Entity and the Contractor in the role representing the Procuring Entity.

23.2. The Procuring Entity's Representative may delegate any of his duties and responsibilities to other people, except to the Arbiter, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

24. Approval of Drawings and Temporary Works by the Procuring Entity's Representative

24.1. All Drawings prepared by the Contractor for the execution of the Temporary Works, are subject to prior approval by the Procuring Entity's Representative before its use.

24.2. The Contractor shall be responsible for design of Temporary Works.

24.3. The Procuring Entity's Representative's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

24.4. The Contractor shall obtain approval of third parties to the design of the Temporary Works, when required by the Procuring Entity.

25. Acceleration and Delays Ordered by the Procuring Entity's Representative

25.1. When the Procuring Entity wants the Contractor to finish before the Intended Completion Date, the Procuring Entity's Representative will obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Procuring Entity accepts these proposals, the Intended Completion Date will be adjusted accordingly and confirmed by both the Procuring Entity and the Contractor.

25.2. If the Contractor's Financial Proposals for an acceleration are accepted by the Procuring Entity, they are incorporated in the Contract Price and treated as a Variation.

26. Extension of the Intended Completion Date

26.1. The Procuring Entity's Representative shall extend the Intended Completion Date if a Variation is issued which makes it impossible for the Intended Completion Date to be achieved by the Contractor without taking steps to accelerate the remaining work, which would cause the Contractor to incur additional costs. No payment shall be made for any event which may warrant the extension of the Intended Completion Date.

26.2. The Procuring Entity's Representative shall decide whether and by how much to extend the Intended Completion Date within twenty one (21) days of the Contractor asking the Procuring Entity's Representative for a decision thereto after fully submitting all supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

27. Right to Vary

27.1. The Procuring Entity's Representative with the prior approval of the Procuring Entity may instruct Variations, up to a maximum cumulative amount of ten percent (10%) of the original contract cost.

27.2. Variations shall be valued as follows:

(a) At a lump sum price agreed between the parties;

(b) where appropriate, at rates in this Contract;

(c) in the absence of appropriate rates, the rates in this Contract shall be used as the basis for valuation; or failing which

(d) at appropriate new rates, equal to or lower than current industry rates and to be agreed upon by both parties and approved by the HoPE.

28. Contractor's Right to Claim

If the Contractor incurs cost as a result of any of the events under **GCC** Clause 13, the Contractor shall be entitled to the amount of such cost. If as a result of any of the said events, it is necessary to change the Works, this shall be dealt with as a Variation.

29. Dayworks

29.1. Subject to **GCC** Clause 43 on Variation Order, 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.

29.2. All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Procuring Entity's Representative. Each completed form shall be verified and signed by the Procuring Entity's Representative within two days of the work being done.

29.3. The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

30. Early Warning

30.1. The Contractor shall warn the Procuring Entity's Representative at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Procuring Entity's Representative may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

30.2. The Contractor shall cooperate with the Procuring Entity's Representative in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Procuring Entity's Representative.

31. Program of Work

31.1. Within the time stated in the **SCC**, the Contractor shall submit to the Procuring Entity's Representative for approval a Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works.

31.2. An update of the Program of Work shall show the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

31.3. 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.

31.4. The Procuring Entity's Representative's approval of the Program of Work shall not alter the Contractor's obligations. The Contractor may revise the Program of Work and submit it to the Procuring Entity's Representative again at any time. A revised Program of Work shall show the effect of any approved Variations.

31.5. When the Program of Work is updated, the Contractor shall provide the Procuring Entity's Representative with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

31.6. All Variations shall be included in updated Program of Work produced by the Contractor.

32. Management Conferences

32.1. Either the Procuring Entity's Representative or the Contractor may require the other to attend a Management Conference. The Management Conference shall review the plans for remaining work and deal with matters raised in accordance with the early warning procedure.

32.2. The Procuring Entity's Representative shall record the business of Management Conferences and provide copies of the record to those attending the Conference and to the Procuring Entity. The responsibility of the parties for actions to be taken shall be decided by the Procuring Entity's Representative either at the Management Conference or after the Management Conference and stated in writing to all who attended the Conference.

33. Bill of Quantities

33.1. The Bill of Quantities shall contain items of work for the construction, installation, testing, and commissioning of work to be done by the Contractor.

33.2. The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.

33.3. If the final quantity of any work done differs from the quantity in the Bill of Quantities for the particular item and is not more than twenty five percent (25%) of the original quantity, provided the aggregate changes for all items do not exceed ten percent (10%) of the Contract price, the Procuring Entity's Representative shall make the necessary adjustments to allow for the changes subject to applicable laws, rules, and regulations.

33.4. If requested by the Procuring Entity's Representative, the Contractor shall provide the Procuring Entity's Representative with a detailed cost breakdown of any rate in the Bill of Quantities.

34. Instructions, Inspections and Audits

34.1. The Procuring Entity's personnel shall at all reasonable times during construction of the Work be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of the construction.

34.2. If the Procuring Entity's Representative instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a defect

and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a Compensation Event.

34.3. The Contractor shall permit the Funding Source named in the **SCC** to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

35. Identifying Defects

The Procuring Entity's Representative shall check the Contractor's work and notify the Contractor of any defects that are found. Such checking shall not affect the Contractor's responsibilities. The Procuring Entity's Representative may instruct the Contractor to search uncover defects and test any work that the Procuring Entity's Representative considers below standards and defective.

36. Cost of Repairs

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability Periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

37. Correction of Defects

37.1. The Procuring Entity's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which is One (1) year from project completion up to final acceptance by the Procuring Entity's Representative.

37.2. Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified in the Procuring Entity's Representative's notice.

37.3. The Contractor shall correct the defects which he notices himself before the end of the Defects Liability Period.

37.4. The Procuring Entity shall certify that all defects have been corrected. If the Procuring Entity considers that correction of a defect is not essential, he can request the Contractor to submit a quotation for the corresponding reduction in the Contract Price. If the Procuring Entity accepts the quotation, the corresponding change in the SCC is a Variation.

38. Uncorrected Defects

38.1. The Procuring Entity shall give the Contractor at least fourteen (14) days notice of his intention to use a third party to correct a Defect. If the Contractor does not correct the Defect himself within the period, the Procuring Entity may have the Defect corrected by the third party. The cost of the correction will be deducted from the Contract Price.

38.2. The use of a third party to correct defects that are uncorrected by the Contractor will in no way relieve the Contractor of its liabilities and warranties under the Contract.

39. Advance Payment

39.1. 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**.

39.2. The advance payment shall be made only upon the submission to and acceptance by the Procuring Entity of an irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee or a surety bond callable upon demand, issued by a surety or insurance company duly licensed by the Insurance Commission and confirmed by the Procuring Entity.

39.3. The advance payment shall be repaid by the Contractor by an amount equal to the percentage of the total contract price used for the advance payment.

39.4. The contractor may reduce his standby letter of credit or guarantee instrument by the amounts refunded by the Monthly Certificates in the advance payment.

39.5. The Procuring Entity will provide an Advance Payment on the Contract Price as stipulated in the Conditions of Contract, subject to the maximum amount stated in **SCC** Clause 39.1.

40. Progress Payments

40.1. The Contractor may submit a request for payment for Work accomplished. Such request 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.

40.2. The Procuring Entity shall deduct the following from the certified gross amounts to be paid to the contractor as progress payment:

(a) Cumulative value of the work previously certified and paid for.

(b) Portion of the advance payment to be recouped for the month.

(c) Retention money in accordance with the condition of contract.

(d) Amount to cover third party liabilities.

(e) Amount to cover uncorrected discovered defects in the works.

40.3. Payments shall be adjusted by deducting therefrom the amounts for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Procuring Entity's Representative within twenty eight

(28) days from the date each certificate was issued. No payment of interest for delayed payments and adjustments shall be made by the Procuring Entity.

40.4. The first progress payment may be paid by the Procuring Entity to the Contractor provided that at least twenty percent (20%) of the work has been accomplished as certified by the Procuring Entity's Representative.

40.5. Items of the Works for which a price of "0" (zero) has been entered will not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

41. Payment Certificates

41.1. The Contractor shall submit to the Procuring Entity's Representative monthly statements of the estimated value of the work executed less the cumulative amount certified previously. Except when a different payment scheme is adopted under GCC Clause 40.4, in which case, the statement may only be submitted in accordance with the schedule prescribed by the Procuring Entity.

41.2. The Procuring Entity's Representative shall check the Contractor's statement and certify the amount to be paid to the Contractor.

41.3. The value of Work executed shall:

(a) be determined by the Procuring Entity's Representative;

(b) comprise the value of the quantities of the items in the Bill of Quantities completed; and

(c) include the valuations of approved variations.

41.4. The Procuring Entity's Representative may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

42. Retention

42.1. The Procuring Entity shall retain from each payment due to the Contractor an amount equal to a percentage thereof using the rate as specified in GCC Sub-Clause 42.2.

42.2. Progress payments are subject to retention of ten percent (10%), referred to as the "retention money." Such retention shall be based on the total amount due to the Contractor prior to any deduction and shall be retained from every progress payment until fifty percent (50%) of the value of Works, as determined by the Procuring Entity, are completed. If, after fifty percent (50%) completion, the Work is satisfactorily done and on schedule, no additional retention shall be made; otherwise, the ten percent (10%) retention shall again be imposed using the rate specified therefore.

42.3. The total "retention money" shall be due for release upon final acceptance of the Works. The Contractor may, however, request the substitution of the

retention money for each progress billing with irrevocable standby letters of credit from a commercial bank, bank guarantees or surety bonds callable on demand, of amounts equivalent to the retention money substituted for and acceptable to the Procuring Entity, provided that the project is on schedule and is satisfactorily undertaken. Otherwise, the ten (10%) percent retention shall be made. Said irrevocable standby letters of credit, bank guarantees and/or surety bonds, to be posted in favor of the Government shall be valid for a duration to be determined by the concerned implementing office/agency or Procuring Entity and will answer for the purpose for which the ten (10%) percent retention is intended, *i.e.*, to cover uncorrected discovered defects and third party liabilities.

42.4. On completion of the whole Works, the Contractor may substitute retention money with an "on demand" Bank guarantee in a form acceptable to the Procuring Entity.

43. Variation Orders

43.1. Variation Orders may be issued by the Procuring Entity to cover any increase/decrease in quantities, including the introduction of new work items that are not included in the original contract or reclassification of work items that are either due to change of plans, design or alignment to suit actual field conditions resulting in disparity between the preconstruction plans used for purposes of bidding and the "as staked plans" or construction drawings prepared after a joint survey by the Contractor and the Procuring Entity after award of the contract, provided that the cumulative amount of the Variation Order does not exceed ten percent (10%) of the original project cost. The addition/deletion of Works should be within the general scope of the project as bid and awarded. The scope of works shall not be reduced so as to accommodate a positive Variation Order. A Variation Order may either be in the form of a Change Order or Extra Work Order.

43.2. A Change Order may be issued by the Procuring Entity to cover any increase/decrease in quantities of original Work items in the contract.

43.3. An Extra Work Order may be issued by the Procuring Entity to cover the introduction of new work necessary for the completion, improvement or protection of the project which were not included as items of Work in the original contract, such as, where there are subsurface or latent physical conditions at the site differing materially from those indicated in the contract, or where there are duly unknown physical conditions at the site of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the Work or character provided for in the contract.

43.4. Any cumulative Variation Order beyond ten percent (10%) shall be subject of another contract to be bid out if the works are separable from the original contract. In exceptional cases where it is urgently necessary to complete the original scope of work, the HoPE may authorize a positive Variation Order go beyond ten percent (10%) but not more than twenty percent (20%) of the original contract price, subject to the guidelines to be determined by the GPPB: *Provided, however,* That appropriate sanctions shall be imposed on the

designer, consultant or official responsible for the original detailed engineering design which failed to consider the Variation Order beyond ten percent (10%).

43.5. In claiming for any Variation Order, the Contractor shall, within seven (7) calendar days after such work has been commenced or after the circumstances leading to such condition(s) leading to the extra cost, and within twenty-eight (28) calendar days deliver a written communication giving full and detailed particulars of any extra cost in order that it may be investigated at that time. Failure to provide either of such notices in the time stipulated shall constitute a waiver by the contractor for any claim. The preparation and submission of Variation Orders are as follows:

(a) If the Procuring Entity's representative/Project Engineer believes that a Change Order or Extra Work Order should be issued, he shall prepare the proposed Order accompanied with the notices submitted by the Contractor, the plans therefore, his computations as to the quantities of the additional works involved per item indicating the specific stations where such works are needed, the date of his inspections and investigations thereon, and the log book thereof, and a detailed estimate of the unit cost of such items of work, together with his justifications for the need of such Change Order or Extra Work Order, and shall submit the same to the HoPE for approval.

(b) The HoPE or his duly authorized representative, upon receipt of the proposed Change Order or Extra Work Order shall immediately instruct the appropriate technical staff or office of the Procuring Entity to conduct an on-the-spot investigation to verify the need for the Work to be prosecuted and to review the proposed plan, and prices of the work involved.

(c) The technical staff or appropriate office of the Procuring Entity shall submit a report of their findings and recommendations, together with the supporting documents, to the Head of Procuring Entity or his duly authorized representative for consideration.

(d) The HoPE or his duly authorized representative, acting upon the recommendation of the technical staff or appropriate office, shall approve the Change Order or Extra Work Order after being satisfied that the same is justified, necessary, and in order.

(e) The timeframe for the processing of Variation Orders from the preparation up to the approval by the Procuring Entity concerned shall not exceed thirty (30) calendar days.

44. Contract Completion

Once the project reaches an accomplishment of ninety five (95%) of the total contract amount, the Procuring Entity may create an inspectorate team to make preliminary inspection and submit a punch-list to the Contractor in preparation for the final turnover of the project. Said punch-list will contain, among others, the remaining

Works, Work deficiencies for necessary corrections, and the specific duration/time to fully complete the project considering the approved remaining contract time. This, however, shall not preclude the claim of the Procuring Entity for liquidated damages.

45. Suspension of Work

45.1. The Procuring Entity shall have the authority to suspend the work wholly or partly by written order for such period as may be deemed necessary, due to *force majeure* or any fortuitous events or for failure on the part of the Contractor to correct bad conditions which are unsafe for workers or for the general public, to carry out valid orders given by the Procuring Entity or to perform any provisions of the contract, or due to adjustment of plans to suit field conditions as found necessary during construction. The Contractor shall immediately comply with such order to suspend the work wholly or partly.

45.2. The Contractor or its duly authorized representative shall have the right to suspend work operation on any or all projects/activities along the critical path of activities after fifteen (15) calendar days from date of receipt of written notice from the Contractor to the district engineer/regional director/consultant or equivalent official, as the case may be, due to the following:

(a) There exist right-of-way problems which prohibit the Contractor from performing work in accordance with the approved construction schedule.

(b) Requisite construction plans which must be owner-furnished are not issued to the contractor precluding any work called for by such plans.

(c) Peace and order conditions make it extremely dangerous, if not possible, to work. However, this condition must be certified in writing by the Philippine National Police (PNP) station which has responsibility over the affected area and confirmed by the Department of Interior and Local Government (DILG) Regional Director.

(d) There is failure on the part of the Procuring Entity to deliver government-furnished materials and equipment as stipulated in the contract.

(e) Delay in the payment of Contractor's claim for progress billing beyond forty-five (45) calendar days from the time the Contractor's claim has been certified to by the procuring entity's authorized representative that the documents are complete unless there are justifiable reasons thereof which shall be communicated in writing to the Contractor.

45.3. In case of total suspension, or suspension of activities along the critical path, which is not due to any fault of the Contractor, the elapsed time between the effectivity of the order suspending operation and the order to resume work shall be allowed the Contractor by adjusting the contract time accordingly.

46. Payment on Termination

46.1. If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Procuring Entity's Representative shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the SCC. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.

46.2. If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Procuring Entity's Representative shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.

46.3. The net balance due shall be paid or repaid within twenty eight (28) days from the notice of termination.

46.4. If the Contractor has terminated the Contract under **GCC** Clauses 17 or 18, the Procuring Entity shall promptly return the Performance Security to the Contractor.

47. Extension of Contract Time

47.1. Should the amount of additional work of any kind or other special circumstances of any kind whatsoever occur such as to fairly entitle the contractor to an extension of contract time, the Procuring Entity shall determine the amount of such extension; provided that the Procuring Entity is not bound to take into account any claim for an extension of time unless the Contractor has, prior to the expiration of the contract time and within thirty (30) calendar days after such work has been commenced or after the circumstances leading to such claim have arisen, delivered to the Procuring Entity notices in order that it could have investigated them at that time. Failure to provide such notice shall constitute a waiver by the Contractor of any claim. Upon receipt of full and detailed particulars, the Procuring Entity shall examine the facts and extent of the delay and shall extend the contract time completing the contract work when, in the Procuring Entity's opinion, the findings of facts justify an extension.

47.2. No extension of contract time shall be granted the Contractor due to (a) ordinary unfavorable weather conditions and (b) inexcusable failure or negligence of Contractor to provide the required equipment, supplies or materials.

47.3. Extension of contract time may be granted only when the affected activities fall within the critical path of the PERT/CPM network.

47.4. No extension of contract time shall be granted when the reason given to support the request for extension was already considered in the determination

of the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection.

47.5. Extension of contract time shall be granted for rainy/unworkable days considered unfavorable for the prosecution of the works at the site, based on the actual conditions obtained at the site, in excess of the number of rainy/unworkable days pre-determined by the Procuring Entity in relation to the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection, and/or for equivalent period of delay due to major calamities such as exceptionally destructive typhoons, floods and earthquakes, and epidemics, and for causes such as non-delivery on time of materials, working drawings, or written information to be furnished by the Procuring Entity, non-acquisition of permit to enter private properties or non-execution of deed of sale or donation within the right-of-way resulting in complete paralyzation of construction activities, and other meritorious causes as determined by the Procuring Entity's Representative and approved by the HoPE. Shortage of construction materials, general labor strikes, and peace and order problems that disrupt construction operations through no fault of the Contractor may be considered as additional grounds for extension of contract time provided they are publicly felt and certified by appropriate government agencies such as DTI, DOLE, DILG, and DND, among others. The written consent of bondsmen must be attached to any request of the Contractor for extension of contract time and submitted to the Procuring Entity for consideration and the validity of the Performance Security shall be correspondingly extended.

48. Price Adjustment

Except for extraordinary circumstances as determined by NEDA and approved by the GPPB, no price escalation shall be allowed. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GoP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

49. Completion

The Contractor shall request the Procuring Entity's Representative to issue a certificate of Completion of the Works, and the Procuring Entity's Representative will do so upon deciding that the work is completed.

50. Taking Over

The Procuring Entity shall take over the Site and the Works within seven (7) days from the date the Procuring Entity's Representative issues a certificate of Completion.

51. Operating and Maintenance Manuals

51.1. If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the **SCC**.

51.2. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the **SCC**, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative shall 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	
1.17	The **Intended Completion Date** is within One Hundred Eighty (180) *Calendar Days.* Note: the contract duration shall be reckoned from the start date and not from contract effective date.
1.22	The Procuring Entity is: **Procurement Service** PS Complex, RR Road, Cristobal Street Paco, Manila
1.23	The Procuring Entity's Representative is the DOH-TRC Project Manager concerned. To be announced during the pre-construction conference.
1.24	The **Site** is located as follows: **Qty** / **Item / Description** / **Location** 1 / CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DOH-TRC / DOH-TRC Dulag, Brgy. Highway Dulag, Leyte For Site Inspection Contact Person: Engr. Mark C. Oracion +639273763986
1.28	The Start Date is *the effective date indicated in the Notice to Proceed.*
1.31	CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE for the Department of Health-Treatment and Rehabilitation Center (DOH-TRC), Dulag, Leyte
2.2	No further instructions.
5.1	The **DOH-TRC Dulag, Leyte** shall give possession of all parts of the Site to the Contractor beginning on the date of effectivity of contract until the date of its termination and/or project completion.
6.5	The Contractor shall employ the following **Key Personnel:** **KEY PERSONNEL** / **No. of Key Personnel** Project Engineer (Registered Civil Engineer) / 1 Electrical Engineer (Registered Electrical Engineer) / 1 Construction Foreman / 1 Safety Officer / 1
7.4(c)	No further instructions.
7.7	No further instructions.
8.1	Subcontracting is not allowed.
10	The site investigation reports are: Not **Available.**
12.3	No further instructions.
12.5	Fifteen (15) years.
13	All partners to the joint venture shall be jointly and severally liable to the

	Procuring Entity.
18.3(h)(i)	No further instructions.
21.2	The Arbiter is: Construction Industry Arbitration Commission 2/F & 5/F, Executive Center Bldg. 369 Gil Puyat Ave., cor. Makati Ave., Makati City Tel. Nos.: (+632) 895.4424 / 895.6826 Fax No.: (+632) 897.9336 E-mail: **ciap@dti.gov.ph**
29.1	Not applicable.
31.1	The contractor shall submit the Program of Work to the Procuring Entity's Representative within ***ten (10) calendar days*** from receipt of Notice of Award.
31.3	The period between Program of Work updates is **thirty (30) calendar days.** The amount to be withheld for late submission of an updated Program of Work is 10% of the amount of the next billing progress.
34.3	The Funding Source is the *Government of the Philippines GAA-2017 for the DOH-TRC.*
39.1	The amount of the advance payment is ***fifteen percent (15%) of the Contract Price****, which shall be given to the Contractor not later than* ***fifteen (15) calendar days*** *from receipt of the Contractor's request, subject to the requirements under GCC Clause 39.2.*
40.1	Request for payment for Work Accomplished: SCHEDULE OF PAYMENT: First Payment — Upon 30% work accomplished Second Payment — Upon 50% work accomplished Third Payment — Upon 80% work accomplished Final Payment — Upon 100% work accomplished Materials and equipment delivered on the site but not completely put in place shall not be included for payments. Note: 25% of the advance payment will be deducted from each of the 1st, 2nd, 3rd and final payments. Each payment will be subject to 10% retention.
40.4	Progress payment shall be based on actual completion of the infrastructure project or a specific segment or portion thereof using the following schedule: SCHEDULE OF PAYMENT: First Payment — Upon 30% work accomplished Second Payment — Upon 50% work accomplished Third Payment — Upon 80% work accomplished

	Final Payment	Upon 100% work accomplished
51.1	The "As built" drawings, signed and sealed by License Engineers/Professionals, shall be submitted in hard copies and e-copies (in Autocad format) within ten (10) calendar days after project completion. For projects with duly approved variation (change/amendment/ deviation in the original scope of work), the Contractor is required to submit three (3) sets of "as built" drawings after the project completion but prior to the conduct of the TIAC.	
51.2	The amount to be withheld for failing to produce "As Built" drawings by the date required is one percent (1%) of the Contract Price or the non-issuance of the Retention Money	

Section VI. Specifications

Republic of the Philippines

DEPARTMENT OF HEALTH

TREATMENT AND REHABILITATION CENTER -DULAG

Brgy. Highway, Dulag, Leyte

Name of Project: **CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE**

Location: **Treatment and Rehabilitation Center, Brgy. Highway, Dulag, Leyte**

SCOPE OF WORKS

I GENERAL REQUIREMENTS

1 Mobilization/Demobilzation

a. Setting up of storage for materials.
b. Clearing the area to be used for construction.
c. Mobilization of workers, materials and equipment.
d. Demobilize and cleaning all areas after construction.
e. Removal of debris and temporary facilities during and after construction.

2 Project Signboard

a. Fabrication and installation of printed tarpaulin on ordinary plywood

3 Permits, Licenses and Material Testing

a. Application for Locational Clearance, Building Permit Fees and Testing of Materials.

II SITEWORKS

1 Excavation

a. Structural excavation for column footings and grade beams.

2 Gravel Bedding

a. Provision, spreading and compaction of 4" thk. gravel bedding for column footings and grade beams.

3 Backfill and Compaction

a. Backfilling, tampering, spreading & compaction of filling materials.

III MASONRY WORKS

a. Laying of 4" and 6" thick CHB as indicated in the plan
b. Application of "class B (1 cement: 3 sand)" mixture as CHB cement mortar.
c. Applying 25 mm thick "class B (1 cement: 3 sand)" mixture of cement mortar for plastering.
d. Provision of Deco Stone as indicated in the plan.
e. Extension of the Existing Septic Tank to the finish floor line.

IV REINFORCED CONCRETE WORKS

a. Mixture and pouring of "class A" concrete column footings, columns, slabs and beams.
b. Installation of steel reinforcements, stirrups & ties.

V FORMWORKS AND SCAFFOLDINGS

a. Installation and removal of forms for footings, columns and beams.
b. Erection of scaffolding, staging and support for all concrete works and structural works

VI CEILING WORKS

a. Provision and installation of 4.5mm Fiber Cement Board on Aluminum T-Runners.
b. Provision and installation of 4.5mm Fiber Cement Board on Metal Furring Frame Spaced @ .60m o.c. b.w. at overhang area.

VII DRY WALL PARTITION

a. Provision and installation of 6mm thick Ficem Board as wall partition.
b. Provision and installation of Metal Studs and Metal Tracks as framing for wall partition spaced @ .60m o.c. b.

VIII ROOFING AND ROOF FRAMING WORKS

1 Roof Framing

a Provision, Fabrication installation of Steel Trusses; Angle Bar with Gusset Plate as specified in plan.

b. Provision and installation of 100x50x1.5mm thick C - Purlins with 2"x2"x1/4" Angle Bar as Cleats, 2-2"x2"x1/4 Angle Bar as web member, 2-2"x2"x1/4" Angle Bar as Top Chord and Bottom Chord with 3/16" mm gusset pla

c. Provision and Installation of Base Plate with nuts and bolts as indicated in the plan.

2 Roofing System

a. Provision and installation of GA#24 Pre Painted G.I. Roof, G.I. Flashing and Thermal Heat Insulator.

IX DOORS AND WINDOWS

a Provision and installation of powder coated aluminum door with complete accessories, as specified in plan.

b. Provision and installation of solid door with complete accessories, as specified in plan.

c. Provision and installation of powder coated awning window, bronze glass with insect screen.

d. Provision and installation of powder coated sliding window, bronze glass with insect screen.

e. Provision and installation of powder coated fixed window, bronze glass with insect screen.

d. Provision and installation of powder coated sliding window, bronze glass.

X ARCHITECTURAL FINISHES

1 Tile Works

a. Provision and installation of 0.60x0.60m homogenous granite tiles.

b. Provision and installation of 0.60x0.60m synthetic granite tiles.

c. Provision and installation of 0.30x0.60m homogenouse granite tiles.

d. Provision and installation of 0.30x0.30m unglazed ceramic floor tiles for the stairs area.

e. Installation of Brass Nosing at Stairs

f. Application of Tile Grout

2 Steel Works

a. Provision, fabrication, installation of railings, square bar and treated good lumber as specified in the plan.

XI METAL WORKS

a. Provision and fabrication of steel shelves as specified in the plan.

XII CATCH BASIN

a. Construction of concrete catch basin using 6" thick CHB.

b. Mixture and Pouring of Class A concrete.

XIII PLUMBING WORKS

a. Installation of sanitary lines: PVC pipes and fittings, as indicated in plan (all series 1000).

b. Provision and installation of 4" dia. roof downspouts.

XIV PAINTING WORKS

a. Provision and application of concrete neutralizer for concrete and masonry areas.

b. Provision and application of Odorless Antibacterial Acrylic and Dirt Resisting Latex Paint on all masonry and concrete work as specfied in the plan

c. Provision and application of putty for masonry.

d. Provision and application of red oxide primer for steel.

e. Provision and application of enamel paint for steel.

XV ELECTRICAL WORKS

a. Roughing-ins: laying of electrical wires, pipes and fittings.

b. Provision and Installation of Fire Detection and Alarm System using the materials provided in the detailed estimates.

c. Installation of panel board with breakers.

d. Installation of fixtures and accessories provided in the Detailed Estimates which was prepared by the implementing agency.

e. Installation of ACU as provided in the Detailed Estimates which was prepared by the implementing agency.

g. Installation of speakers, wires, pipes, fittings and its accessories

h. Installation of Industrial Exhaust fan provided in the Detailed Estimates

(1) GENERAL REQUIREMENTS

TS-1 General

1.1 Provision

The Contractor shall perform all the required scope of works for the DOH Treatment and Rehabilitation Center in compliance with this Technical Specifications.

1.2 Drawings and Specifications

Drawings and specification are intended to complement each other, so that if anything is shown on the drawings, but not mentioned in the specifications, or vice versa, it is to be furnished and built as though specifically set forth in both. If any discrepancies occur in the drawings or specifications, the same shall be referred to the Engineers assigned in the project before proceeding with the work. The Engineer's decision on such discrepancies shall be final provided that the said discrepancies will not incur any additional cost and will not sacrifice the structural integrity of any building.

1.3 Large scale drawings shall have preference over smaller scale drawings and figured dimensions shall have preference over scaled dimensions.

1.4 The Engineer may, during the progress of the work furnish additional drawings specifications and instructions for new items of work as may be necessary, for the proper and adequate implementation of the work. The Contractor shall implement the additional work in accordance with drawings, specifications and instruction. Such additional drawings, specifications and instruction shall be deemed part of the Contract Documents.

1.5. Minor Change

The Contractor shall submit to the Engineer a construction methodology to implement the works. The methodology shall include the provision of adequate water supply for the building.

1.6 Applicable Standards and Codes

The following terms listed or referred herein or indicated in the drawings are to be used for reference and latest edition of the publication to the date of these specifications shall apply.

ASTM	-	American Society for Testing and Materials
ACI	-	American Concrete Institute
AISC	-	American Institute of Steel Construction
ANSI	-	American National Standard Institute
CRSI	-	Concrete Reinforcing Steel Institute
AWS	-	American Welding Society
ASSHTO	-	American Association of State Highway and Transportation Office

1.7 The Contractor may use local standards and codes equivalent to those referred in this Technical Specifications.

PS	-	Philippine Standard
NBC	-	National Building Code of the Philippines
NSC	-	National Structural Code of the Philippines
PCP	-	Plumbing Code of the Philippines
PEC	-	Philippine Electrical Code

TS-2 Construction Schedule and Execution Plan

The Contractor shall submit a construction schedule in the form of PERT/CPM or Bar chart, including equipment and manpower utilization schedule for approval by the Engineer.

TS-3 Permit

Prior to the execution of the work, the contractor shall secure the necessary building permit and post the permit number to the construction site visible to the public.

TS-4 As-Built Drawings and Construction Log Book
The Contractor shall submit an as-built plan of the project including the records of construction activities during implementation as a requirement for final payment.

TS-5 Construction Photograph
The Contractor shall submit progress photographs as supporting documents for every progress payment.

B. SITEWORKS

TS-6 Earthworks

2. Materials

The Contractor shall supply all labor, plant, materials equipment and other facilities required to complete all earthworks in an acceptable manner as shown on the drawings and as specified herein. This work shall include clearing, staking, excavation, sub-base, preparation, backfilling, compaction and trimming for final grades where the building shall be erected. It also includes utility service connection for sewer, water supply, and all appurtenances in accordance with the contract and/or as maybe directed by the Engineer if applicable.

All filling materials, whether native to the site or imported, shall be free of debris, roots, vegetation or other deleterious materials, sand and gravel shall be free of any clods of stones larger than 50 mm in their dimension.

Excavated materials that can be compacted to the required density and acceptable to the Engineer may be used for backfilling.
Bedding materials shall be in accordance with the specification as accepted by the Engineer. The material shall be hard and durable stone, with a maximum size of 24mm (1") graded by weight as follows:

Sieve Size (square opening)	Percent by weight
24 mm (1 inch)	90– 100
19 mm (3-4 inch)	10– 50
12 mm (1/2 inch)	0– 20
9.5 mm ((3/8 inch)	0– 10

e. Coarse sand shall consist of clean, inert, hard, durable material free from loam or clay, surface coating and deleterious materials. The Contractor shall submit samples for testing with the supervision of the Engineer and shall pass the required specification prior to installation.

f. Selected fill material shall be graded mixture of fine coarse grained material with less than 35% passing the number 200 sieve. The Contractor shall submit samples of the materials he proposes to use, showing that it can be compacted to the required density.

6.2 Scope of work

a. The area at least two (2) meters around the building shall be cleared of rubbish, loams, refuse, grass, roots and other perishable or objectionable matter.

b. All unsuitable materials that lie within the operational area shall be removed and disposed from the site, to a dump designated by the Engineer or spread in locations and manner approved by the Engineer. Clearing may be undertaken by any method, which is not detrimental to the work, nor wasteful for earth materials.

c. The building shall be staked out and all lines and grades as shown on the plans shall be established accurately before the start of excavation. Basic batter boards and reference marks shall be erected before the construction of the foundation.

d. Trenching and drilling for water, sewer or storm drainage, if applicable, shall be done according to line and depths as shown in the drawings. Any trenches shall be sufficient width to accommodate the proper laying, installation and joining of pipes. Lines and depths not indicated on the drawings shall be determined by the Engineer before laying of pipelines is done. All trenches shall be fully backfilled upon approval by the Engineer in accordance with the elevations as indicated on the plans. If the Contractor did not attain the required elevation at the end of the day, the Engineer shall require the contractor to place warning signs at the periphery of the excavated area.

e. Where trenches for water, sewer and storm drainage pipelines require the removal of road pavements, the contractor shall obtain written permit from the Municipal Engineering Office. The Contractor shall restore such pavements to their original or better condition without any additional cost to the Owner.

f. The excavation lines shown on the drawings are solely for the purpose of computing quantities for pavement purposes. The Owner specifically does not warrant the actual sides can be made to the excavation lines shown.

g. The Contractor shall design, furnish, install, and maintain such sheeting and bracing as may be required to support the side of excavation if scouring arises. Care shall be taken to prevent voids outside the sheeting. Prior to installation of any sheeting and bracing, the Contractor's proposed method of installation shall be approved by the Engineer.

h. All sheeting and bracing, upon completion of the works, shall be carefully removed without endangering the new installations and the existing utilities or adjoining property as well.

i. All voids caused by withdrawal of sheeting shall be immediately refilled with sand and compacted by ramming with suitable tools, watering or any method directed by the Engineer.

j. Wood sheeting shall not be withdrawn if driven below the bottom of any drain, and under no circumstances shall any wood sheeting be cut off at a level lower than 0.30m above the top of the drain.

k. The contractor shall leave in place to be embedded in the backfill, all sheeting, bracing, etc. which the Engineer may direct him in writing to leave in place at any time during the progress of the work for the purpose of preventing injury to structures, utilities, or property, whether public or private.

l. Excavation shall include the removal of all materials of whatever nature encountered including all obstructions of any nature that would interfere with

the proper execution and completion of the work. The removal of these materials shall conform to the lines and grades shown on drawings as ordered by the Engineer. If scouring arises the Contractor shall immediately furnish and install sheeting to secure the sides of the excavation and notify the Engineer for verification and approval. The Contractor may submit other method of excavation for any unstable ground encountered, whether by shoring or by sloping excavation. The Engineer shall immediately notify the Contractor the acceptable method to avoid and avoid damages to the adjoining property or utilities.

m. Excavation to a depth greater than that shown on the drawings may be required without any additional costs. The depth and extent of over excavation shall be to the approval of the Engineer.

n. The materials to be used for backfilling maybe either selected material, gravel, or other materials that is acceptable. The material used shall be placed in layers, brought to optimum moisture content and compacted to ninety (90%) percent of the modified AASHTO Standard.

o. Bedding material shall be sand or crushed rock as previously specified. Bedding material shall be placed in layer to a minimum depth of 100mm and compacted to 95% of modified AASHTO compaction, prior to installation of pipes or concreting of structure.

p. Initial backfill to a depth of 150mm above the pipe shall be carried out using coarse sand. The backfill shall be carried out in layers not exceeding 150 mm compacted thicknesses of 95% compaction.

q. Te remainder of the backfill shall be from excavated material subject to the approval of the Engineer.

r. Filling shall be carried up in layers not exceeding 150 mm compacted thicknesses. Compaction shall be carried out using, vibratory compactors or other equipment suitable to achieve a reliable and uniform compaction to the specified standard. Manual compaction methods will be acceptable upon approval of the Engineer.

s. The Contractor shall give special attention to the effect of his operations. He shall take special care to maintain, trim, and level the surrounding area around the building during construction period.

C. CONCRETE

TS-7 General

This section includes all operations necessary for the supply and delivery of all materials, labor, equipment and all associated activities necessary to complete the work conforming to the following standards:

ASTM C-31	Method of Making and Curing Concrete Test Specimens in the Field
ASTM C-33	Specification for Concrete Aggregates
ASTM C-39	Method of Test for Compressive Strength of Molded Cylindrical Concrete Specimens
ASTM C-94	Specification for Ready-Mixed Concrete
ASTM C-143	Test for Slump of Portland Cement Concrete
ASTM C-150	Specification for Portland Cement
ASTM A-615	Specification for Deformed and Plain Billet Steel Bars for Concrete Reinforcement

TS-8 Materials

8.1 All cement shall be Portland cement and shall be Type 1, conforming to ASTM C-150.

8.2 Fine and coarse aggregates shall be obtained from the approved source as conforming to DPWH standard specifications and shall conform to ASTM C-33.

8.3 Water shall be potable and free from deleterious amounts of acids, alkalis, oils or organic matter.

8.4 Admixtures shall only be used with the prior written consent of the Engineer. Admixtures shall not contain calcium chloride. The use of an admixture shall not change the required quantities of cement specified and the quantity of admixture used and method of mixing shall be in accordance with the manufacturer's instruction as the case may be.

8.5 Reinforcement steel shall be deformed steel bars conforming to Structural Grade (Phil. Standard) grade 40. Shapes and dimensions shall be as indicated on the drawings.

TS-9 Quality of concrete

9.1 The quality of concrete shall comply with the "National Structural Code of the Philippines, Volume 1" and with the specific requirements outlined in the various sections of this specification.

9.2 Testing of samples from concrete pours shall be as required by the "National Structural Code of the Philippines, Volume 1".

9.3 Tests of specimens shall be deemed acceptable provided they meet the requirements of the "National Structural Code of the Philippines, Volume 1".

9.4 Should further testing of the finished concrete be necessary but test specimens are not available, it shall be carried out in accordance with the approved procedures laid down in "National Structural Code of the Philippines, Volume 1".

9.5 Hardened concrete that is deemed not to comply with this specification, but which the Engineer permits for testing, shall be subject for compressive strength.

9.6 Any concrete will be rejected under this specification if the results fail to meet the requirements of "National Structural Code of the Philippines, Volume 1".

9.7 Hardened concrete may also be rejected and the Engineer has the option to let the Contractor to demolish the rejected portion for any one of the following conditions:

a. It is porous, segregated or honeycombed.
b. Its placing has been so interrupted that there is a construction or similar joint not in accordance with the National Structural Code of the Philippines, Volume 1.
c. The reinforcing steel it incorporates has been displaced.
d. Construction tolerances have not been met.
e. The required surfaced finish has not been met.
f. The concrete can be shown to be otherwise defective.

TS-10 Scope of Works and Methods of Construction

10.1 Concrete shall not be placed until all formworks, installation of reinforcement, and the preparation of surfaces have been approved by the Engineer. Prior to concreting the Contractor shall submit a proposed pouring schedule for the various stages of the work for approval by the Engineer. No concrete shall be poured without the Engineer's approval presence. Subsequently, the Contractor shall give the Engineer twenty four (24) hours notice of his intention to proceed with the next stages of the work.

10.2 All batches of mortar or concrete shall be adjusted to the capacity of the mixer. If hand mixing shall be allowed, the batch shall be so proportioned as to use only full bag batches. In case ready mixed concrete shall be used, it must comply with ASTM C-94 and all the requirements therein.

10.3 All mortar and concrete shall be used while fresh and when there is no evidence of initial setting. No tampering of mortar or concrete will be allowed.

10.4 Ready mixed concrete (i.e., off-site transit mixer concrete) shall comply with ASTM C-94 and the requirements herein. Batch deliveries shall not exceed the rated capacity specified for the mixer by its manufacturer. The Contractor shall submit affidavits, for the approval of the Engineer, certifying that the proposed mix to be supplied shall satisfy the requirements of these specifications.

10.5 The accuracy of weighing equipment and the accuracy of batching shall comply with the applicable requirements of ASTM C-94 and its reference standards. The materials shall be so measured as to give the required mix proportions. Cement and aggregates shall be measured by weight or any other method approved by the Engineer.

10.6 The device employed to measure and discharge the amount of water for the mixture shall be capable of adjustment and checking.

10.7 Water carried by the aggregate, in excess of that giving a saturated surface-dry condition shall be considered as part of the required mixing water.

10.8 Concrete shall be mixed until the materials are uniformly distributed. The time of mixing shall not be less than one and one half (1 ½) minutes after all ingredients are in the mixer.

10.9 No concrete shall be placed until the required bedding had been laid and compacted, the necessary reinforcement, forms, and false work had been installed, had attained the required elevation, inspected and approved by the engineer. Before depositing concrete, all debris, foreign matter, dirt and water shall be removed from the forms, and the surface of any concrete previously placed shall be cleaned and brushed with cement paste.

10.10 No concrete shall be placed on filled ground until it has attained the required compaction and approved by the Engineer.

10.11 All concrete shall be placed in daylight or under such lighting condition that may be approved by the Engineer as the case may be.

10.12 The method and manner of placing concrete shall be such as to avoid the possibility of segregation of the concrete or the displacement of the reinforcement. Where troughs or chutes are used in placing concrete, the angle of inclination with respect to the horizontal shall not exceed thirty (30) degrees.

10.13 Concrete shall not be allowed to drop into place from a height exceeding one (1) meter.

10.14 The placing of concrete shall be evenly regulated to avoid the depositing of a large quantity at any one point. Concrete in horizontal layers shall be deposited as near as practicable to its final position in the forms.

(b) Concrete shall be deposited in a continuous operation as far as it is practicable to avoid initial setting starting in any part of the work before another fresh concrete shall be placed against it.

(c) Compaction of concrete shall be by immersion type of vibrator. Vibration shall be limited to the time necessary to produced thorough compaction of the concrete without segregation. Under no circumstances, vibrator shall be used to move concrete laterally, nor shall it be allowed to penetrate concrete in the previous batch.

(d) During placing and until curing, all new concrete shall be protected against the harmful effects of exposure to the elements and to running water.

(e) When concrete hardens sufficiently, it must be covered with damp, closed-woven burlap or similar material, or clean sand, which shall be kept thoroughly saturated over a period of fourteen (14) days. Where wood forms are used, they shall be kept wet for the same period to prevent openings at the joints and drying out of the concrete.

(f) If the temperature of the surrounding air is higher than 32 degree Celsius prior the pouring of concrete, the following shall procedures must be applied by the Contractor:

The formwork shall be continually sprayed with cold water in advance of the concreting and excess water shall be removed from the inside of the forms immediately prior to the placement of concrete.

The reinforcement of the formwork, if metal forms are used, shall be protected from the effects of hot winds and direct sunlight.

Suitable barriers shall be provided to protect the freshly placed concrete from wind, shall be covered and allow the concrete to harden sufficiently.

The concrete shall be held to a temperature of 32 degree Celsius during pouring.

The concrete shall be mixed, transported, placed and compacted as rapidly as possible and shall be then covered with an impervious membrane and shall kept wet for curing.

TS-11 Finishing of Concrete

11.1 Allowable deviations from plumb or level and from the alignment, profile grades and dimensions shown on the drawings are defined as "tolerances" and are to be distinguished from irregularities in finish. Surface irregularities are classified as abrupt or gradual. Off sets caused by displaced or misplaced from sheeting, form lining, form section, loose knot or knots or otherwise defective form timber will be considered as abrupt irregularities and will tested by either a straight edge or its equivalent for curved surfaces.

11.2 Immediately after removal of forms, all pins and loose material shall be removed.

"Honey-combed" aggregate pockets, voids and holes shall be cut back to solid concrete. All repairs of imperfections in concrete shall be completed within twenty four (24) hours after removal of forms.

TS-12 Formworks

12.1 The contractor shall be responsible for the design, erection and adjustment of all formwork and false work in accordance with the National Structural Code of the Philippines, Volume 1.

12.2 All materials used in the construction and support of formwork shall be of timber or any alternative materials upon approval of the Engineer. For beams and slabs, use not less than 12 mm (1/2") thick plywood forms for exposed concrete while 20 mm (3/4") thick T & G or plyboards for covered concrete.

12.3 It shall be the Contractor's responsibility to ensure that the forms are placed to the shape, lines and dimensions as indicated on the drawings, and they shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete. The Contractor shall ensure that the forms are maintained rigidly in position and be sufficiently tight to prevent excessive leakage of mortar.

12.4 All debris particularly chipping, shaving and sawdust, shall be removed from the interior of the forms before the concrete is placed.

12.5 Before any pouring of concrete, the Engineer shall inspect the formwork and reject any materials of forms that do not conform to this specification.

12.6 The deflection of forms between joints and/or studs shall no exceed one five-hundredth (1/500) of the joints or stud spacing.

TS-13 Grouting

The Contractor, prior the pouring of another batch of concrete on hardened concrete surface grouting shall be made. Before any grouting operation, all surfaces to be grouted shall be cleared of extraneous materials.

TS-14 Rebar

14.1 All steel bars to be used during construction should be in accordance with the guidelines of "National Structural Code of the Philippines, Volume 1"

14.2 The tolerances on cutting and bending of reinforcement shall be in accordance with the provisions stipulated in the constructions notes of the approved plans and specifications.

14.3 Lap splicing or welding of reinforcement, if approved by the Engineer, of reinforcement shall comply with the National Structural Code of the Philippines, Volume 1. It shall not be carried out within 75mm of a bend having an internal diameter less than 12 bar diameter.

D. MASONRY

The scope of the work covers the furnishing of all labor, equipment and materials for the erection of walls made of non-load bearing, 100mm and/or 150mm thick concrete hollow blocks. For exterior walls use 150mm thick CHB, and for interior walls use 100mm thick CHB.

TS-15 Materials

15.1 All materials supplied under the Contract shall conform to the requirements of the Philippine Standard Association and the National Structural Code of the Philippines, Volume 1.

15.2 Recommended strength of CHB for both exterior & interior walls of the building shall not be less than 450 psi.

15.3 Portland cement mortar for laying concrete hollow blocks shall consist of one (1) part Portland cement, and three (3) parts sand.

15.4 Mortar materials shall be accurately measured by volume and thoroughly mixed until evenly distributed throughout the batch. Unless otherwise approved by the Engineer, mixing by batch shall be by mechanical mixer of not less than two (2) minutes per batch.

15.5 Masonry materials shall be handled with care to prevent chipping and breakage. Masonry units with crack shall not be installed and shall be replaced immediately. Material for concrete masonry units shall be stacked on platform and covered or stored in any other approved manner that will protect these materials from contact with the soil and exposure to the weather. Cement shall be stored off the ground under water tight cover and away from sweating walls and other damp surfaces until ready for use. Damage or deteriorated materials shall be removed from the premises.

15.6 All steel reinforcement for masonry works shall be in accordance with the approved plan and details as shown on the drawings.

TS-16 Methods of Construction

16.1 All masonry units shall be laid plumbed, leveled and accurately spaced. Wall intersection shall be toothed alternately. End of walls shall be in vertical line.

16.2 All masonry units shall be wetted before laying. The blocks shall be laid in mortar bedding in such a way that no cracks are formed between the blocks and the mortar at the time the masonry units are placed.

16.3 The concrete blocks shall be adjusted to its final position while mortar is still soft and plastic to insure a good bond.

16.4 The position of the concrete block shall not be shifted after the mortar has stiffened.

16.5 All horizontal and vertical joints must be filled solid with 3/8-inch (9.5mm) thick mortar unless otherwise specified or detailed on the drawings. Any patching necessary to fill the joints should be completed.

16.6 All vertical masonry wall reinforcement shall be anchored to concrete wall footings and roof beam. Likewise horizontal reinforcements should be anchored to column bars and shall be tied to every vertical masonry wall reinforcements.

16.7 Filling of CHB cells shall be carried out in stages not exceeding 3 courses at a time and the concrete properly compacted without disturbing the newly laid concrete blocks.

16.8 The filler concrete shall be stopped at a level about thirty six (36) mm. (1 ½ in.) below the top of the blocks laid, when filling of concrete shall be stopped for more than one (1) hour.

16.9 At the completion of the work, all excess mortar on masonry surfaces and mortar spilled on floor slabs shall be removed.

F. WOOD WORKS

TS-17 General

17.1 The works consists of furnishing all materials, plant, labor, equipment, and all other items specified in the drawings and in the specifications. It also includes all operations necessary for the completion of all carpentry works.

17.2 Lumber shall be of approved quality, of the respective kinds required for the work, well-seasoned, thoroughly dry, straight and free from large, loose or unsound knots, saps, shakes, or other imperfections which may affect its strength, durability and appearance

17.3 Framing lumber (if applicable) including trusses, rafters, purlins, and girts shall be of the rough dimension shown on the drawings). Any planed lumber supplied shall have a finish size not less than the rough dimensions specified on the drawings.

17.4 All cutting, framing, fitting and other rough lumbers necessary for the completion of the work shall be provided.

TS-18 Protection and Storage

18.1 Lumber shall be protected and kept under cover both in transit and at the job site, and shall be carefully piled off the ground and insure of proper ventilation, and protection from the weather.

18.2 All surface wood framework and other wood members in contact with or embedded in concrete shall be painted with two (2) coat of asphalt applied hot or coal tar.

18.3 The Contractor shall protect all finish woodwork from injury after it has been set in place until the completion and final acceptance of work.

TS-19 Substitution of Lumber

Any lumber intended to be used maybe substituted if the substitute belongs to the same group of the kinds specified. However, a deduction may be considered if the unit cost of the substitute is lower than that of the unit cost as stated in the contract. Any substitution must be subject to the approval of the Engineer.

TS-20 Materials

1. When the type and kind of lumber to be used for woodwork is not specified in the drawings and details, the following shall be used:

Guijo or Lauan – for all door jambs, window jambs, headers and transom bars; wood plates, stair handrail, and all other wood works coming in contact with concrete or masonry.

Tanguile or Red Lauan – for all ceiling framing, studding and partitions if any.

Plywood – shall be 6 mm (1/4 inch) thick marine plywood for interior ceiling, and marine type for eaves. If applicable, 19 mm (3/4 inch) thick shall be used for cabinet and its door, counters and shelves.

Fiber Cement Board – shall be 12 mm (1/2 inch) thick for use on fascia boards, the preferred sizes are shown on the drawings.

TS-21 Methods of Construction

21.1 All framing and other rough carpentry shall be fitted closely and carefully to the required lines and levels, and shall be secured in place in a rigid substantial manner.

21.2 Door jambs indicated on the drawings, in contact with concrete shall be anchored using 4-inch common wire nails spaced not more than 200 mm apart, all around the contact surface.

21.3 Fastenings, except where bolts are shown on the drawings shall be common wire nails.

21.4 Nails shall be of the proper size, and care shall be taken so as not split the wood members.

21.5 All dimensions shall be verified on the site before fabricating joinery items. All joints shall be accurately and cleanly formed to conform to the required details. All items of work shown on the drawings shall be done by the Contractor with good workmanship practice and in accordance with the best reasonable interpretation of the plans and related specification. Use weldwood or other approved water-resistant glue for assembly of materials and other joinery.

G. THERMAL AND MOISTURE PROTECTION

TS-22 General

This section include the supply all labor, plant, materials, equipments, and other facilities required to complete all roofing work as shown on the drawings and specified herein. Work shall be done by trained and experienced workmen who are completely familiar with the materials involved and the recommended methods of installation.

TS-23 Materials

23.1 GA. 26, corrugated, manufacturer pre-painted long span G.I. Roofing shall be used and all bended accessories such as ridge rolls, end flashings, side flashings and corner flashings shall be GA. 24, preformed, pre-painted G.I. materials and delivered to site free from any damages or defects.

23.2 Cement from concreting works, chemical solutions, paint, welding sparks, nails and iron tools should not be allowed to drop on, extend to or rust away at the roof since removal or scraping of materials later could damage the roof's coating, roof traffic should be minimized. When crossing the roof area, walking should be conducted along roof frame locations, along overlaps or on wooden planks laid over the roof panels.

TS-24 Methods of Construction

24.1 Installation of corrugated G.I. sheets with end laps shall start at the lower part of the roof and proceed towards the direction of monsoon wind providing side laps of 2-1/2 corrugations. Roofing sheets can be fastened by means of stove bolt with aluminum rubber washers or tekscrew with rubber washer. Manufacturer's specification shall maybe acceptable or as directed by the Engineer.

24.2 Roof mounting strip/connector or tight frame shall be FB2.3 x 30 galvanized steel sheet and shall be fastened to the purlins by full weld or water head tekscrew or as directed by the Engineer. Ridge rolls and other flashings shall be attached to the roofing sheets by means of rivets or screws.

H. DOORS AND WINDOWS

TS-25 General

(1) The work includes the furnishing of materials, equipment, methods and in performing all operation for all wood doors and windows, complete in accordance with the plans and this specification.

All lumbers for door and window frames shall be kiln-dried and approved grade lumber as specified in the technical specifications. All doors and windows shall be of the type done in accordance with the details as shown on the drawings. Refer to the schedule of doors and windows.

The Contractor shall be responsible for the proper execution and exactness of dimensions. Shop drawings shall be presented by the Contractor to the Engineer for review and checking prior to production.

TS-26 Storage and Protection

Wood doors, windows and frames shall be protected against damage and dampness. The horns on doors and window frames should be only at the time of installation. Doors and windows shall be stored under cover in a well-ventilated building where they will not be exposed to extreme changes of humidity.

TS-27 Materials

27.1 Frames shall be of the design, size and thickness indicated on the drawings. Wood and window frames in masonry or concrete walls shall be nailed as indicated on the drawings.

27.2 Door hardware and accessories shall be of the design and patterns that will prevent the infiltration of water through its operating parts.

27.3 Flushed Type Door studs shall be of Lauan, kiln-dried. Use 6mm (1/4") thick marine plywood covering on both sides of door, and shall be of commercial standard. Design and details shall be as indicated on the drawings.

27.4 Hinged door shall be hung plumb, and fitted accurately allowing three (3) mm clearance at the jambs. Use four (4) butt hinges for each panel or hinged door as shown in the drawings.

27.5 Movable jalousie shall be lever type aluminum frame mechanism. Type and brand shall be subject to the approval of the Consultant. Glass blades for jalousie shall not be less than 6mm (1/4") thick. Glass shall be correctly cut to its net dimension on sides and both ends and shall be free from foam, cracks, deformation and other defects. Edges of the glass shall be well chamfered and other performance as maybe directed by the Engineer.

TS-28 Hardware

(3) General

The work includes the provision and installation of rough hardware, required for the completion of the work, including nails, bolts, screws, etc., all finishing hardware hereinafter specified shall be put in a proper manner with screws and shall match the finishes.

All items of finish hardware shall be furnished packaged and labeled in sets as specified. Set numbers are drawn in the schedule together with the type numbers. All items of finish hardware of like kind and purpose shall be of the same manufacturer.

The Contractor shall provide and fit in place all hardware not herein specifically mentioned, but necessary to complete the work. All such hardware, should there be any, shall conform in every respect to the hardware specified on the plans.

(4) Submittals

Samples of materials, accessories, and all other items shall be submitted to the Engineer for approval prior to placing orders for materials.

The material plate numbers shall be properly identified to designate the quality, type, design, operation, and finishes required. Any other hardware equally good, maybe substituted and subject to the written approval of the Engineer.

Items of hardware shall be delivered to the jobsite in their original individual containers, complete with the necessary appurtenance including screws, key and instructions. Each individual container shall be marked with the manufacturer's name and catalog numbers.

(5) Materials

Hinges shall be "Loose Pin Butt Hinge" or approved equal butt hinge button tips, brass polished and plated for all exterior doors.

Lock sets shall be used for all entrance doors and other room door as specified on the drawings equivalent shall be subject to the approval of the Engineer.

3. All door locks shall be keyed individually and three (3) keys shall be furnished for each lock. Door locks shall be Kwikset or its equivalent.

4. All locks shall be installed at the same height from the floor as shown on the drawings. Door knobs shall be located so that the center of the knob is 0.90 meter (35 ½") from the finished floor or as directed by the Engineer.

5. Cabinet pulls shall be of chrome plated finish, U.S. brand. Design shall be submitted to the Engineer for approval prior to installation.

6. Nails shall be of the standard wire nails, unless otherwise indicated in the drawings.

7. Anchor Bolts and Fastener shall be provided as necessary for installation of the work indicated and specified; shall be zinc-coated regular commercial grade of size and length to suit the purpose.

8. Bolt with expansion shields shall be galvanized, good commercial grade, of the type and class best suited for the purpose and as indicated.

9. All entrance doors having an external swing radius shall be provided with door stoppers installed 2000mm from finish floor line, rubber tip ends and with a hook & eye catcher. Method of installation, materials and type shall be subject to the approval of the Engineer.

28.4 Methods of Installation

All hardware shall be installed in a neat, acceptable manner, following manufacturer's instruction. After installation, protect hardware from paint, stain, blemishes and other damage until acceptance of the work. All hardware shall be adjusted properly and checked in the presence of the Engineer and hinges, lock and other items shall be operating properly. After all hardware is checked, keys shall be tagged, identified and delivered to the Engineer. All errors in cutting and fitting, and all damage to adjoining work shall be corrected, repaired, and finished as directed by the Engineer.

I. FINISHES

TS-29 Plastering

(1) General
The work includes the furnishing of materials, equipment, methods and the labor necessary to complete all plastering in accordance with the drawings and specified herein.

(2) Materials

All materials specified herein shall be subject to the specification of manufacturers and to the approval of the Engineer.

Portland Cement shall conform to ASTM C-150), Type 1.

Sand shall be hard, well washed, clean and free from deleterious materials conforming to ASTM C-40.

Lime Shall be hydrated lime with the requirement that calcium oxide (CaO) and the magnesium oxide (MgO) shall not exceed eight (8) percent by weight calculated

Water shall be potable, clean and free form organic matter, acids and alkalis.

(2) Delivery and Storage

Manufactured materials shall be delivered in the original unbroken packages and containers bearing the name and brand of the manufacturer. Cement materials shall be kept away from the sweating walls and damp surfaces until ready for use. Damage or deteriorated materials shall be removed from the premises.

(3) Mixture

Plaster shall be the thoroughly mixed with the proper amount of water until uniform in color consistency. Tampering shall not be permitted and all plaster that has begun to stiffen shall be discarded. Cement mortar shall be of three (3) coat application. Each coat shall be proportional as follows: one (1) part Portland Cement, three (3) parts sand and one fifth part lime putty.

(4) Methods of Construction

Surfaces to receive plaster shall be cleaned of all loose particles, dust, cracks and other foreign matter. Before the plastering work is started, masonry surfaces shall be wetted thoroughly with a fog, spray of clean water to produce a uniformly moist condition. Corner beads, screeds and other accessories shall be check carefully for alignment before work is started.

The coat shall be applied with sufficient pressure to fill the grooves in hollow blocks or concrete surface to prevent air pockets and secure a good bond. The coat shall be lightly scratch and broom. Each coat of cement plaster shall be kept moist for four (4) hour after application and then allowed to dry.

Finish and final coat shall not be applied until the first coat has seasoned for 7 days. Before the application of the finish coat, the concrete surface shall be evenly moistened with a fog coat; the first shall be floated first to a true and even surface then toweled in a manner that will force the sand particles down into the plaster. Plastered surfaces shall be smooth and free from rough areas, toweled marks, checks and blemishes. Thickness of plaster shall be 9mm (3/8") on vertical concrete and on masonry.

On wall finishing, exterior and interior finishes shall be plain cement plaster finish or whatever is specified on the drawing.

Toilet wall finishes shall be vitrified glazed ceramic tiles wainscoting. (Refer to ceramic tile work for detailed information).

Plastering work shall be finished level, square and true within a tolerance of 5 millimeter in 4.8 meters without cracks, wakes, blisters, pits, projections and other imperfections. Plaster work shall be formed carefully around corners, contours and well-up to screeds. Care shall be taken to prevent sagging and drooping of applications. There shall be no visible junction marks, in the finish coat where one day's work adjoins the other.

Upon completion of the building and when directed, all loose, cracked, damaged, or defective plastering shall be cut out and re-plastered in a satisfactory and approved manner. All pointing and patching of plastered surfaces, and plaster work abutting of adjoining any other finish work, shall be done in neat and acceptable manner. Plaster droppings shall be removed from all surfaces. Exposed plastered surfaces shall be left in a clean unblemished condition ready to receive paint or other finish. Protective covering shall be removed from floors and other surfaces, and all rubbish and debris shall be removed from the building.

TS-30 Ceramic Tile Work

30.1 General

Tile work shall not be started until all installation for plumbing and electrical work has been completed and tested.

a. Materials

Manufactured materials shall be delivered in the manufacturer's original unbroken packages or containers that are labeled plainly with the names and brands.

Floor tiles shall be unglazed ceramic tiles, 300mm x 300mm x 6mm (12" x 12" x ¼") and Wall tiles shall be glazed tiles, 300mm x 300mm for Toilets. And, 400mm x 400mm (16" x 16") Unglazed Ceramic Floor tiles for entire Floor and 400mm x 400mm (16"x16") Glazed Wall Tiles manufactured by approved brand.

Trimmers and moldings shall be bright mat glazed to fill the sizes and match with the finish of the wall tiles.

b. Construction Methods

Wall tiles shall cover walls and partitions to nominal height as indicated on the drawings. Finish of wall and wainscot tiles shall be uniform for all toilet rooms.

Mortar for setting wall tile and floor tiles shall consists of one (1) part Portland cement and three (3) parts sand by volume.

All tile batches to be thoroughly mixed before placing to balance out any manufacturer's variation in color and texture.

Glazed wall tile shall be thoroughly soaked in clean water before being set.

Tiles shall be firmly secured in place. Joints shall be well filled, lines kept straight and true, and finished surfaces brought to a true plane. Setting beds of floor tiles shall be thick enough to bring the tops of the tiles to the finish slope or levels indicated. Wall filled tiles shall be set with horizontal and vertical straight line joints, except as indicated otherwise, intersection and returns shall be perfectly formed. Cutting and drilling of tiles shall be neatly done without damaging the surfaces of the Tiles.

TS-31 Painting

1. General

The work under this section shall include the furnishing of all materials, labor, tools and other facilities necessary to complete all painting of all of all surfaces throughout the interior and exterior of the building except as otherwise specified.

Before paint application, the contractor shall inspect all surfaces to be painted and all defects shall be remedied. For concrete surfaces all dirty matter shall be removed by scrubbing affected surfaces with a solution of muriatic acid and water (add a half to pint of acid to a gallon of water), and rinse with a clear water to allow to dry thoroughly. All nail holes, cracks or open joints shall be puttied, caulked, or grouted.

2. Materials

All paint materials shall be delivered to the jobsite in original containers with seals unbroken and labels intact. Materials that are damaged during delivery shall be replaced by the contractor at his own expense. With the exception of ready-mixed materials in original containers, all mixing shall be done at the jobsite.

b. All paints shall be applied in accordance with the manufacturer's printed instructions.

c. All materials called for under this section of specifications shall conformed to the standards or approved equal.

b. Color and Samples

Color coordinates and samples shall be submitted by the Contractor to the Engineer for review and approval. No painting shall be done without first securing prior approval of submitted color samples, schedule and coordinates.

Tinting or matching of colors shall be done under the supervision of the Engineer. If required, each color and finish shall be prepared in advance, with the materials specified for the approval of the Engineer. "Off color selected" shall be understood of all colors specified therein.

c. Paint Application and Methods

All concrete and masonry and other surfaces shall be in a condition necessary to receive satisfactory paint finish. All nail holes, cracks or open joints shall be puttied, caulked, or grouted. Putty, where necessary shall be applied with a knife after a prime coats have been applied.

Scrape off loose mortar surface contaminants, then steel brush to removed chalk, dust, dirt, and surface deposits.

All concrete masonry surface must be thoroughly neutralized either by brush or spray with a solution four (4) pounds of zinc sulphate to each gallon of water. Treated surfaces shall be treated with litmus paper to ascertain that alkalinity is removed, otherwise a second washing with the solution shall be applied. After drying, all crystals on the neutralized surface must be brushed off before applying the priming coat.

All mill work and other wood works where painting is required shall be sandpapered to brush, to remove dust, before application of the primer. Resulting voids mails holes, cracks shall be filled with approved putty. Touch up all knots, pitch streaks and sappy spots with approved sealer.

Scrape off rust from the surface with steel brush and sweep to remove dust, dirt and all surface contaminants. Oil and Grease adhering to the surface may be removed by washing affected surface with soap and water. Holes shall be patched-up with soldiering lead.

No exterior painting shall be done in rainy, damp weather or until surfaces are thoroughly dry. No interior painting or finishing shall be permitted until building has been thoroughly dried-out.

Finish shall be applied only over the preceding coats which are hard and dry. Finish shall be evenly and smoothly applied in thin but covering coats, and shall be free from runs, sags or crawling.

The use of heavy brush is required. Paints shall be thoroughly stirred so as to have the pigment evenly in supervision while paint is being applied. Except where other is noted or specified, all paints shall be applied in three (3) coats. Wood Surfaces:

Painted doors, jambs, ceiling, (gloss finish)
1st coat – Flat wall enamel
2nd coat – Gloss enamel
3rd coat – Gloss enamel

ii Plain painted surfaces such as walls, partitions
1st coat – Acrylic Flat Latex Paint, White.
2nd and 3rd coat – Acrylic Gloss Latex Paint

Exterior concrete wall and cement plaster – all exterior concrete shall be painted except as otherwise specified on the drawings.

1st coat –Acrylic Solvent Based Primer;
2nd and 3rd coat – Acrylic Solvent Based topcoat.

31.5 Cleaning

Upon completion of the work the Contractor shall remove from the building all used materials, debris, all paint spots on the floor, washing of window glass, hardware fixture, etc. All work performed under this Section shall be left clean and acceptable to the Engineer.

31.6 Guarantee

The Contractor shall guarantee his work for a period of one (1) year, when using the materials specified by the Engineer. The Contractor shall repair all defects due to faulty material or workmanship caused by him without any additional compensation for the period specified.

J. PLUMBING WORKS

TS-32 General

32.1 The Contractor shall furnish all labor, materials and equipment necessary to complete all the works for the sanitary, drainage and water supply system. The owner shall provide necessary drilling of water well and shall yield substantial quantity/volume of water needed to have a functional water supply system to project site either in rainy or dry seasons. The Owner shall likewise arrange/secure consent/approval of tapping to existing water line if necessary or requested by authorities concerned.

32.2 All works shall comply with the provisions of the Philippine National Plumbing Code, MWSS regulations, DPWH guidelines and all other codes and ordinance other local authorities having jurisdiction over the project.

32.3 "Roughing-in" for all pipes and fixtures shall be carried along with the building construction. Correct location for the pipes shall be kept in the walls and floor as specified on the plans.

TS-33 Materials

33.1 All materials must bear the trademarks as reference of the manufacturers. The Contractor shall furnish the Engineer with the original and copies of the certificate of origin of materials to be used.

33.2 Soil, waste, Vent Pipes and Fittings shall be made of Unplasticised Polyvinyl Chloride (uPVC) - Series 1000 or whatever is indicated in the drawing and shall conformed to the standards or its approved equivalent on property certificated by Bureau of Product Standard.

33.3 Water pipes shall be made of G.I Pipes and fittings shall be made of G.I or whatever indicated in the drawings and shall be approved equal in property certificated by Bureau of Product Standard.

33.4 Cleanouts shall be the same as pipe Ø, installed in connection with UPVC hubs and spigot pipes consist of a long sweep quarter extended as indicated in the drawings. An extra heavy cast brass ferrule with countersunk trap screw cover caulked into hub of the fittings shall be flushed with the floors.

33.5 Floor drains shall be stainless steel plated or approved equal, and locally manufactured.

33.6 Gate valves shall be G.I or bronze solid wedge type with screwed ends, or its equivalent as approved by the Engineer.

33.7 Plumbing fixtures and equipment shall be properly identified to illustrate the quality and design of fixture that will be required. All fixtures shall have supply line with cut-off valves having chromium finish and shall be as manufactured by Philippine Standards as follows:

33.8 Water closet shall be of floor mounted tank type complete with all fittings. Color shall be approved by the Architect/Engineer.

33.9 *Stainless Steel Sink* shall be used in all counters with sink as indicated in the drawings. Lavatory shall be complete with necessary fittings.

33.10 Provide traps at every plumbing fixture and other equipment requiring connection to the drainage system.

33.11 Adapters shall be used to join pipes, fittings of different types and sizes and different combination approved by the Engineer.

TS-34 Methods of Construction

34.1 All work shall be done by skilled worker only under the supervision of a master plumber. Contractor shall perform the work in accordance with good workmanlike practice to the satisfaction and approval of the Engineer.

34.2 On completion of the sanitary, drainage and water supply system and plumbing work and upon delivery of the building, the Contractor shall submit the "as-built" drawings of the entire plumbing system layout as actually installed in the building for future reference.

TS-35 Testing

35.1 Materials shall be subjected to such standard tests as may be required to ascertain their fitness, and the complete plumbing system shall be tested with the presence of the Engineer of the following methods.

35.2 The water test shall be applied to the plumbing system in its entirety or in sections. If applied to the entire system, all openings in the piping system shall be tightly closed except the highest opening and the entire system filled with water to the pint of overflow. All dead ends shall be relieved of air during the process whether the test is by section or it's entirely. If the system is tested by sections, each opening of section shall be filled with water.

TS-36 Disinfection

The entire water distribution system shall be thoroughly, flushed and disinfected with a solution containing not less than fifty (50) part per million (50 ppm) of available chloride. The chlorinating materials shall be either liquid chloride or calcium hypo chloride or chloride lime. The disinfecting solution shall be allowed to remain in the system for a period of sixteen (16) hours, during which all valves and faucets shall be opened and closed several times. After disinfection, the solution shall be flushed from the system with clean water until the residual chorine content is not greater than 0.2 parts per million.

TS-37 Cleaning and Painting

All exposed metal surfaces shall be rid of grease dirt or other foreign materials. Chrome or nickel-plated piping, fittings and trimmings shall be polished upon completion. All equipment, pipes, valves and fittings shall be cleaned of greased and sludge.

a. Any damages to the building finish or furnishing due to the Contractor's failure to properly clean the piping system shall be repaired by the Contractor at his expense.

b. All exterior surfaces of piping to be installed in or through concrete, tile floors and underground shall be given one coat of acid-resisting paint with a bituminous base.

c. After completion of all work the fixtures, fittings, accessories and other materials shall be thoroughly cleaned and delivered in a good condition satisfactory to the Engineer.

TS-38 Maintenance

The Contractor shall maintain and keep the works in good condition in accordance with Specification. During the period of maintenance, the Contractor shall make good all defects which may appear in the pipelines trench, and in the lots in which the pipes are lined.

K. ELECTRICAL WORKS

TS-39 General

Scope of Works

39.1 The work include furnishing, delivery and installation of all materials, equipment and labor, necessary for the complete execution of all the Electrical Work as shown on the drawings. And make ready for operation the electrical distribution system and other utilities described herein and/ or indicated in the electrical plan.

39.2 Codes, Permits, Taxes and Fees
a.The contractor at his account shall secure all permits and pay all taxes, fees and other cost in connection with this work. He should likewise file all necessary plans, prepare all documents and obtain all necessary approval of all government authorities having jurisdiction with this work, obtain the required certificate of inspection and all required document for final connection of utilities to the building.

b. Work and materials shall conform to the provision of the latest edition of the Philippine Electrical Code, the laws and ordinances of the local code enforcing authorities and requirement of the building specifications.

c. The requirement of the local power company or cooperative operating the electrical power for distribution are considered part of this specifications, should any change be made necessary to comply with their requirements, the Contractor should notify the Engineer/ Architect concerned.

TS-40 Materials

46.1 All materials shall be new and of high quality which shall conform to this specification and other applicable standards.

46.2 All electrical materials shall meet the requirements and shall bear inspection label whenever standards have been established. Before any materials are ordered, the Contractor shall submit to the Engineer for the approval, a complete list of manufacture's name, address, descriptive data, trade name of items, etc. which the Contractor proposes to use or install.

a. Conductors

a1.All wires shall be copper, soft drawn and annealed, and of ninety eight (98) percent conductivity, they shall be smooth and true and of cylindrical form and shall be within one (1) percent of the actual size called for.

a2. Wires for lighting system shall be thermoplastic installed for 600 Volts unless otherwise noted on the drawings or specified herein.

a3. All wires shall comply with the requirements of the Underwriter's Laboratories, the A.S.T.M. and the I.P.C.E.A. as they apply to the particular usage.

a4. For lighting system no wire smaller than 2.0mm² THHN/ THWN type soft drawn, annealed copper shall be used.

a5. The wires shall be plainly tagged or marked as to its size, kind, insulation and trade name.

a6. Conductors shall be installed after the conduit system has been completed.

a7. Feeders, sub-feeders, branch circuits shall be properly tagged in all pull boxes and wire gutters with code type marker.

a8. All conductors and connections shall be tested free from grounds, short circuits or defective insulation.

a9. Joints and splices for branch circuit wires shall be soldered, for feeders it shall be made with mechanical compression connector. After the connector has been mechanically and electrically secured, the entire joints or splice shall be taped with level equal to that of the conductor.

a10. For power system no wire smaller than 3.5mm² THHN shall be used except grounding wire for equipment grounding.

a11. All equipment shall be properly grounded in accordance with the Philippine Electrical Code requirements.

b. Wiring Devices

b1. Type of color of receptacles outlet plates shall be as selected by the Engineer.

b2. Light control switches shall be rated 10A, 250V in modern plate, ivory face plate cover.

b3. Wall convenience outlets shall be duplex, parallel slot, 15A, 250V in modern plate, ivory face plate cover.

c. Panel Boards and Enclosed ACB'S (Air Circuit Breakers)

c1. Main distribution, lighting and power panel boards shall be dead front safety type, equipped with molded-case circuit breakers of rating shown in the drawing.

c2. Circuit breakers shall be molded case of frame, bolt-on type, trip rating and interrupting capacity as shown in the drawing. The breaker shall be quick-make, quick-break thermal magnetic and trip indicating.

c3. Cabinets/ enclosures shall be equipped with front door and have fully concealed, self-aligning trim clamps. Fronts shall be full finished steel with rust inhibiting primer and baked enamel finish.

d. Junction and Pull Boxes

d1. Junction and pull boxes, of code size and gauge steel, shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finish places shall be located and Splices and taps in any system shall be made only in junction boxes.

d2. Junction, utility, pull boxes and wire gutter shall be coated with zinc chromate for rust protection.

e. Electrical Lighting Fixtures and Lamps

e1. All lighting fixtures shall be of industrial base, 2x36W Recessed Type Lumina ire Lamp, 40 W Fluorescent Lamp, Box Type and 23 W Compact Fluorescent Lamp.

f. Raceways

f1. Rigid non-metallic conduit (PVC) shall be used on all installations embedded in concrete and concealed in wood ceilings or walls inside the building only. Rigid non-metallic conduit may be buried directly in earth provided the depth shall not be less than 457mm (18").

f2. Bends in conduits shall be so made that the conduit won't be injured and that the internal diameter of the conduit will not be effectively reduced. A complete run of conduit shall not contain more than the equivalent of four quarter bends including those bends located immediately at the outlet of fitting. Whenever necessary a pull box shall be provided as directed.

f3. No conduit shall be used in any system smaller than 20mm (1/2") electrical trade size.

f4. All conduits for underground electrical installations shall be rigid steel conduit (RSC) encased in 100 x 100mm concrete.

f5. All electrical power line directly running or embedded underground encased in concrete shall be marked and laid with tape 6" wide throughout its run on top of its sand bedding prior to soil backfilling.

f6. All raceways shall be mandrel tested, cleaned and free from construction rubbles by using air compressor prior to its cabling.

f7. All PVC raceways in stub-up provisions during rough-in stage shall be properly tucked or crimp on both ends to ensure the rubbles would not enter.

f8. All exposed conduit should run parallel to or perpendicular to walls and ground and shall be supported by clamps every 1.5m. Diagonal run shall not be allowed.

TS-41 Plans and Drawings

41.1 The location of outlets shown on diagrammatic wiring plans shall be considered as approximate and it shall be responsibility of the Contractor, before installation of outlet boxes, to study, verify and obtain precise information from all pertinent drawing, for exact location of all outlets and wiring. If so directed by the Engineer, the Contractor shall make any necessary adjustment of his work to fit conditions for recessed fixtures and for outlets occurring in glazed tile, block, wood paneling or other finish material, in order that all boxes may register flushed with finish. Local switches which are shown near doors as shall be located at the strike side of the doors as finally hung, regardless of swing shown on the drawings as maybe directed

by the Engineer. It is the contractor's responsibility to coordinate with all trades concern for smoother implementation of the work.

41.2 All wiring and lighting fixtures shall be installed as specified and at location shown on plans.

41.3 Mounting heights of devices shall be detailed as follows if not specified on the drawing or as maybe directed by the Engineer.

a.	Light Switches	1.40 m above finish floor
b.	Convenience Outlet	0.30 m above finish floor
c.	Panel Board	1.70 m above finish floor

TS-42 Testing

42.1 The entire installation shall be free from improper grounds and from short circuits. These tests shall be made in the presence of the Engineer. Panel board shall be tested with mains connected to the feeder, branches connected and switches closed, all fixture in place and permanently connected, lamps removed or omitted from the sockets and all wall switches closed. Each individual power feeder shall be tested with the power equipment connected for proper and intended operation. In no case shall the insulation resistance be less than that allowed by the Regulations for Electrical Equipment of Buildings. Failure shall be connected in a manner satisfactory to the Engineer.

42.2 It shall be the responsibility of the Contractor to test all system of the entire electrical installation in the presence of the Engineer, for proper operational condition. This condition shall apply to the power and lighting installation, where sequence operation is required, the Contractor shall test for proper sequence and he shall leave the entire electrical installation in satisfactory working condition.

TS-43 Guarantee

The Contractor shall guarantee that the electrical systems are free from improper grounds and defective materials for a period of one (1) year from date of acceptance of the work. Any defects, appearing within the aforesaid period shall be remedied by the Contractor at his own expense.

TS-44 Workmanship, As-Built Plan, Equivalent/ Substitutes

44.1 The work throughout shall be executed in the best and most approved manner under the direction and to the satisfaction of the Engineer, who will jointly interpret the meaning of the drawings and specification and shall reject any work and materials which, in his judgment, are not in full accordance therewith.

44.2 The Contractor shall have on file for ready access and reference, a set of drawing indicating all work as actually installed incorporating in same all charges and additions. Upon completion of the Contract, the Contractor shall prepare a set of drawings indicated thereon the electrical work as actually and finally installed, these drawings shall be turned over to the Engineer and marked "As-Built".

44.3 When material or equipment are mentioned by make, it shall form the basis of the contract and when approved by the Architect or Engineer in writing, substitute material/ equipment maybe used. Approval of the substitute shall be contingent on its meeting the specified requirements, both in the design and dimension. The contractor shall furnish cost difference information in such substitution which in no case shall add cost to the contract.

L. Painting Works

TS-45 General

Scope of Works

45.1 This Item shall consist of furnishing all paints, enamels, varnishes and other products to be used including labor, tools and equipment required as shown on the Plans and in accordance with this Specifications.

TS-46 Material Requirements

46.1 All paint materials shall meet the requirements of the Standard Specifications of the Standardization Committee on supplies.

46.2 All paint materials shall be delivered on the hob-site in their original containers with labels and seals unbroken.

46.3 Manufacture or brand of painting materials to be used shall be approved by the designing Engineer.

TS-47 Construction Requirements

47.1 The Contractor prior to commencement of the work shall examine the surfaces to be applied with paints, enamels, varnishes, lacquers, sanding sealers and other related products in order not to jeopardize the quality and appearance of painting or finishing work.

Prepared by:

(sgd.) Engr. Mark C. Oracion, RMP
DOH TRC - Engineer III

Technical Specifications

(to be included in the Technical Envelope No. 1)

Lot No. 1 : **CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE**

QUANTITY : **1 lot**

APPROVED BUDGET FOR THE CONTRACT : ***Php 2,880,000.00***

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE **Conforms to the attached HFEP Technical Specifications and Drawings**	
The Intended Completion Date is One hundred eighty (180) calendar days.	
The contractor shall be responsible for work and material standard testing requirements.	

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company	Signature Over Printed Name of Authorized Representative	Date

Note:

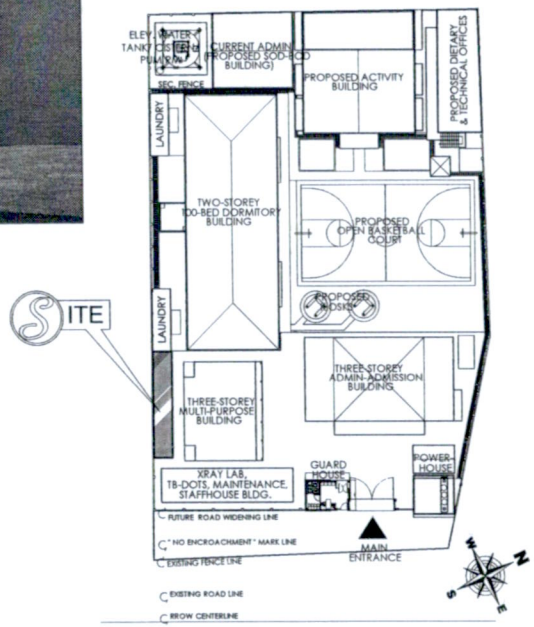
Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution.

Section VII. Drawings

(Please see separately compiled Drawings: A1, A2, A3,A4,A5, A6, A7, S1, S2, S3, S4, S5, P1, P2, E1, E2, E3 and E4)

A1 1 PERSPECTIVE

A1 2 VICINITY MAP
N.T.S.



MASTER SITE DEVELOPMENT PLAN
SCALE : 1:1000METERS

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF BUILDING OFFICIAL

CITY/DISTRICT/MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

Republic of the Philippines
DEPARTMENT OF HEALTH

DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM

Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD

CYRIL IAN M. AMARANTO,uap, rmp
ARCHITECT III

PRC REG. No.	30183	Validity	04-09-2018
IAPOA No.	26323	O.R. No.	267091 Date: 192017
PTR No.	7012238	Date	01-05-2018
Place	CITY OF MANILA	TIN	420-080-620

RA 9266 SECTION 33
Drawings and specifications and other contract documents duly signed and sealed by the author are instruments of service as 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.

PROJECT
PROPOSED TWO-STOREY SUPPLY WAREHOUSE

LOCATION
DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG
Brgy. Highway, Dulag, Leyte

SHEET CONTENTS
- PERSPECTIVE
- MASTER SITE DEVELOPMENT PLAN
- VICINITY PLAN

CHECKED
ERIC A. GUERRERO, MHA,UAP
ARCHITECT IV

PRC REG. No.		Validity	
IAPOA No.		O.R. No.	Date
PTR No.		Date	
Place		TIN	

CHECKED
MAXIMO A. ADAN, JR., MCM
ENGINEER V

PRC REG. No.		Validity	
PICE No.		O.R. No.	Date
PTR No.		Date	
Place		TIN	

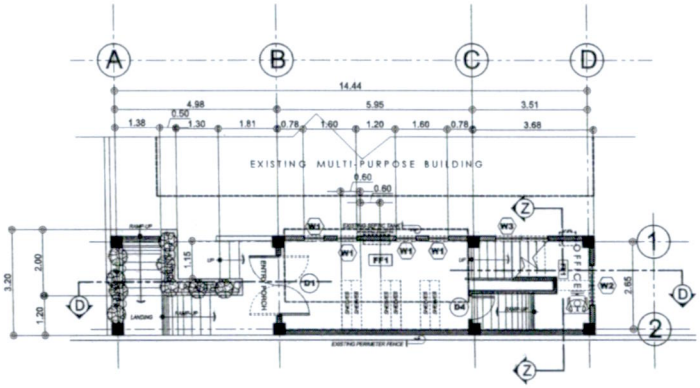
CONCURRED
PORTIA G. ALIPOSA , MD.,DPAFP
O.I.C - TRC CHIEF

RECOMMENDING APPROVAL
MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III
DIRECTOR IV DOH-RO VIII

APPROVED
ARCH. MA. REBECCA PEÑAFIEL, CESO IV
DIRECTOR III, HFDB

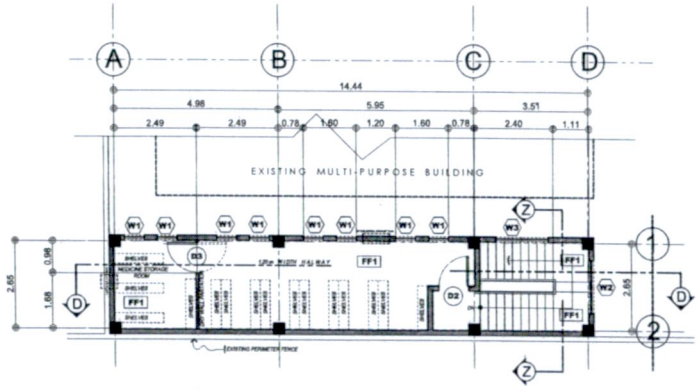
SHEET NO.
A1

CADD by
Checked by:
DATE :



GROUND FLOOR PLAN

SCALE : 1:80METERS



SECOND FLOOR PLAN

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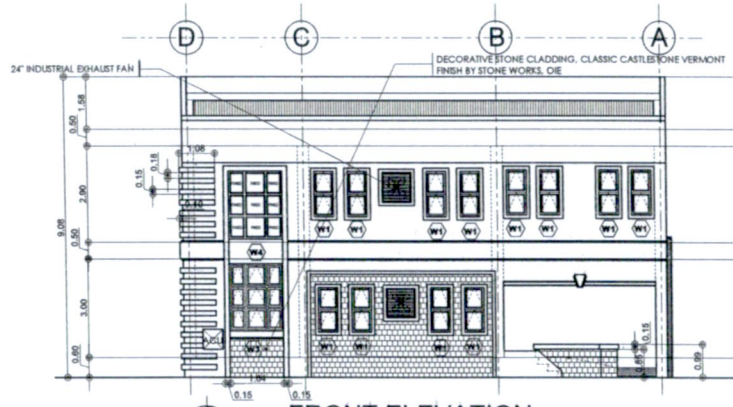
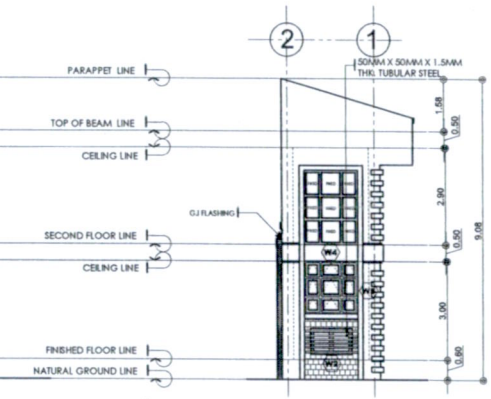


FRONT ELEVATION

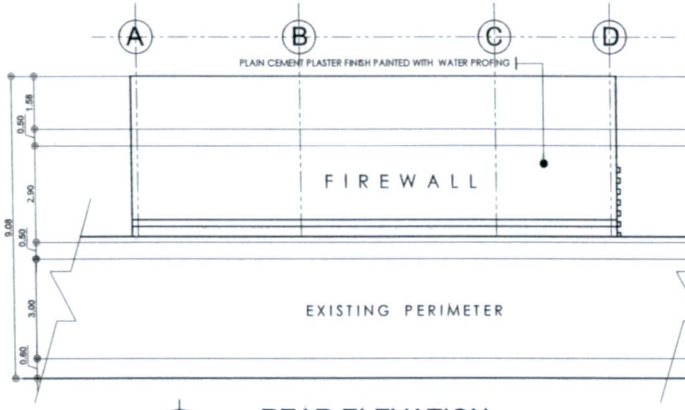
SCALE : 1:80METERS



LEFT-SIDE ELEVATION

SCALE : 1:80METERS

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD CYRIL IAN M. AMARANTO,uap, rmp ARCHITECT III PRC REG. No. 30193 Validity 04-03-2019 IAPOA No. 26323 O.R. No. 207091 Date 082017 PTR No. 7012238 Date 01-05-2018 Place CITY OF MANILA TIN 420-080-620	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 repeation of and for other projects or buildings, whether executed partly or in whole, without the written consent of the architect as author of said documents.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS • GROUND FLOOR PLAN • SECOND FLOOR PLAN • FRONT ELEVATION • LEFT-SIDE ELEVATION	CHECKED ERIC Â. GUERRERO, MHA,UAP ARCHITECT IV PRC REG. No. Validity IAPOA No. O.R. No. Date PTR No. Date Place TIN	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place TIN	CONCURRED PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFSB	SHEET NO. A2 CADD by Checked by: DATE :



REAR ELEVATION

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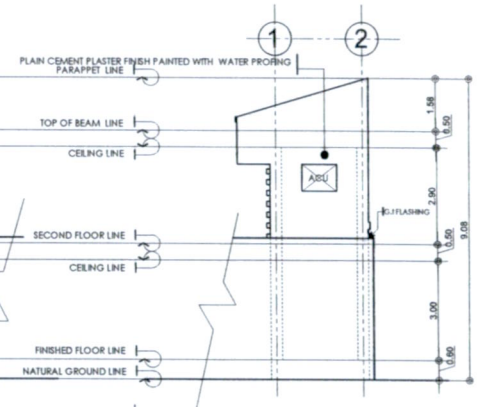

RIGHT-SIDE ELEVATION

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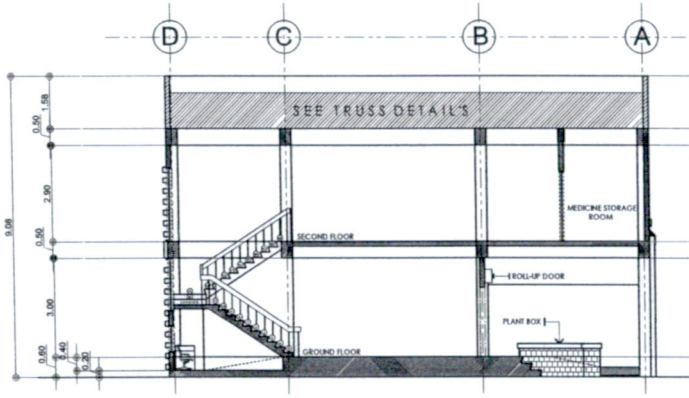
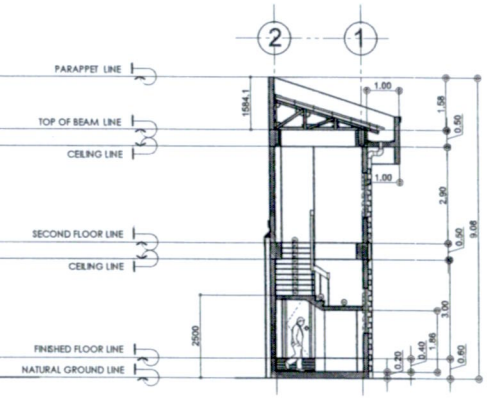


LONGITUDINAL SECTION " D - D "

SCALE : 1:80METERS



CROSS SECTION THRU " Z-Z"

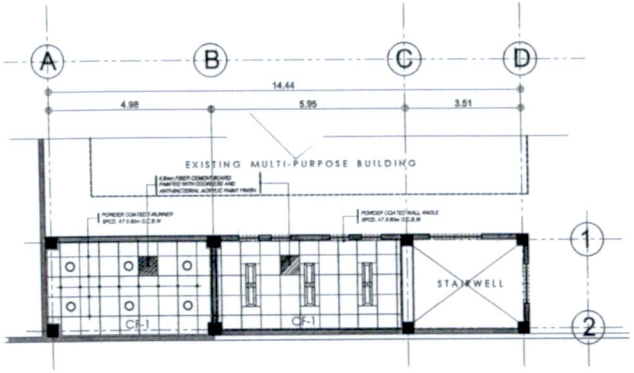
SCALE : 1:80METERS

Republic of the Philippines
DEPARTMENT OF HEALTH

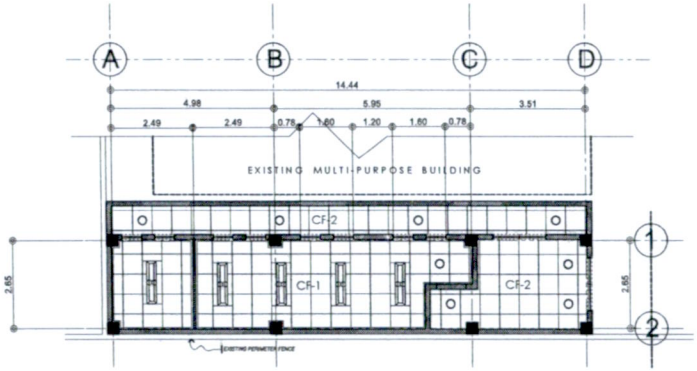
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM

Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	PROJECT	SHEET CONTENTS	CHECKED	CHECKED	CONCURRED	RECOMMENDING APPROVAL	APPROVED	SHEET NO.
CYRIL IAN M. AMARANTO,uap, rmp ARCHITECT III PRC REG. No. 30193 Validity 04-03-2019 IAPOA No. 26323 O.R. No. 207891 Date 062017 PTR No. 7012238 Date 01-05-2018 Place : CITY OF MANILA TIN : 420-090-820	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.	PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	• REAR ELEVATION • RIGHT-SIDE ELEVATION • LONGITUDINAL SECTION • CROSS SECTION	ERIC A. GUERRERO, MHA,UAP ARCHITECT IV PRC REG. No. Validity IAPOA No. O.R. No. Date PTR No.: Date: Place : TIN:	MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No.: Date: Place : TIN:	PORTIA G. ALIPOSA, MD.,DPAFP O.I.C - TRC CHIEF	MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFSB	A3 CADD by SHELA DIAZ Checked by: DATE :



CEILING PLAN
GROUND FLOOR PLAN
SCALE : 1:80METERS



CEILING PLAN
SECOND FLOOR PLAN
SCALE : 1:80METERS

CEILING FINISHES

CF-1	4.5m THICK FIBER CEMENT BOARD ON T-RUNNER SPACED AT 600mm O.C. B.W., ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH (INTERIOR)
CF-2	4.5mm THICK FIBER CEMENT BOARD ON .05 mm thk METAL FURRING FRAME SPACED @ 600mm O.C. B.W., ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH (INTERIOR) DIRT RESISTING LATEX PAINT FINISH (EXTERIOR)

SCHEDULE OF FINISHES

	ROOM NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH	REMARKS
GRND FLOOR	ENTRY PORCH	300x300mm UNGLAZED CERAMIC FLOOR TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	
	STORAGE AREA	600mmx600mm POLISHED SYNTHETIC GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH, DECO STONE	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	SEE DETAIL
	OFFICE	600mmx600mm HOMOGENOUS GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	SEE DETAIL
	STORAGE	600mmx600mm POLISHED SYNTHETIC GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	
	STAIR LOBBY	300mmx300mm HOMOGENOUS GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	
2ND FLOOR	MEDICINE STORAGE RM.	600mmx600mm HOMOGENOUS GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	
	STORAGE AREA	600mmx600mm POLISHED SYNTHETIC GRANITE TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	
CMN	STAIR	300x300mm UNGLAZED CERAMIC FLOOR TILES	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	ODORLESS AND ANTI-BACTERIAL ACRYLIC PAINT FINISH	SEE DETAIL

Republic of the Philippines
DEPARTMENT OF HEALTH
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD
CYRIL IAN M. AMARANTO,uap, rmp
ARCHITECT III
PRC REG. No. 30193 Validity : 04-03-2019
IAPOA No. 26323 O.R. No. 207081 Date : 08/2017
PTR No. 7012238 Date : 01-05-2018
Place : CITY OF MANILA TIN : 420-390-520

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 on other projects, or for other persons or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents.

PROJECT
PROPOSED TWO-STOREY SUPPLY WAREHOUSE
LOCATION
DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG
Brgy. Highway, Dulag, Leyte

SHEET CONTENTS
- CEILING PLAN GROUND FLOOR PLAN SECOND FLOOR PLAN
- SCHEDULE OF FINISHES

CHECKED
ERIC A. GUERRERO, MHA,UAP
ARCHITECT IV
PRC REG. No. Validity :
IAPOA No. O.R. No. : Date :
PTR No. Date :
Place : TIN :

CHECKED
MAXIMO A. ADAN, JR., MCM
ENGINEER V
PRC REG. No. Validity :
PICE No. O.R. No. Date :
PTR No. Date :
Place : TIN :

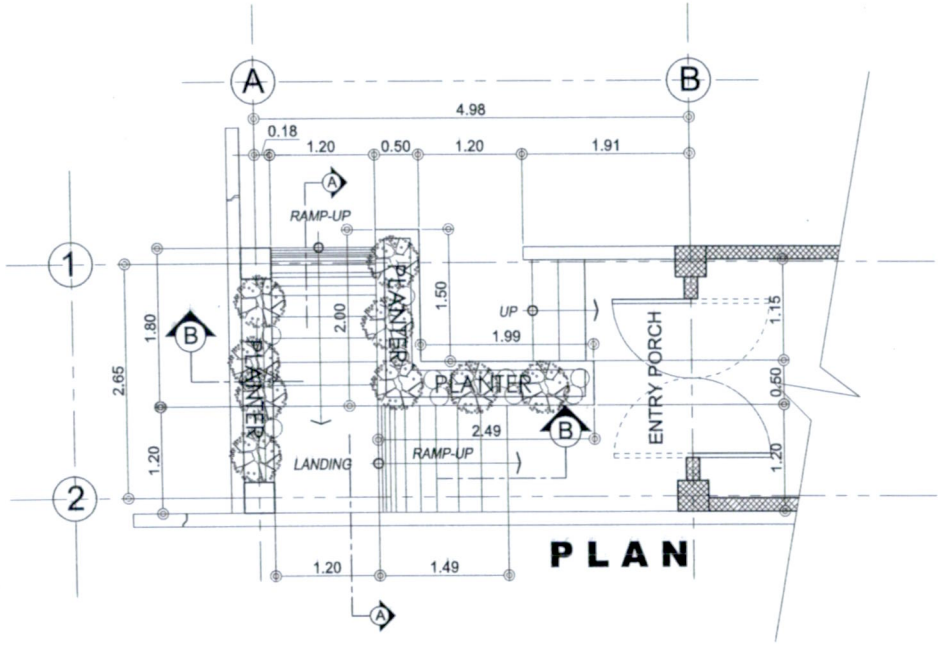
CONCURRED
PORTIA G. ALIPOSA , MD.,DPAFP
O.I.C - TRC CHIEF

RECOMMENDING APPROVAL
MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III
DIRECTOR IV DOH-RO VIII

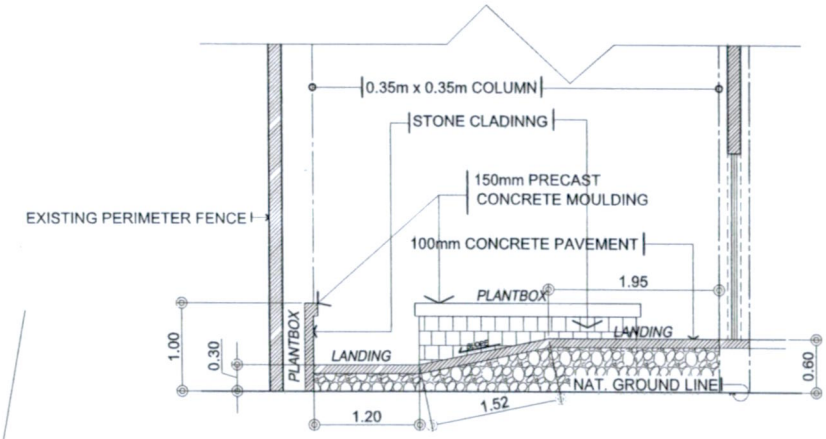
APPROVED
ARCH. MA. REBECCA PEÑAFIEL, CESO IV
DIRECTOR III, HFDB

SHEET NO.
A4
CADD by :
Checked by:
DATE :

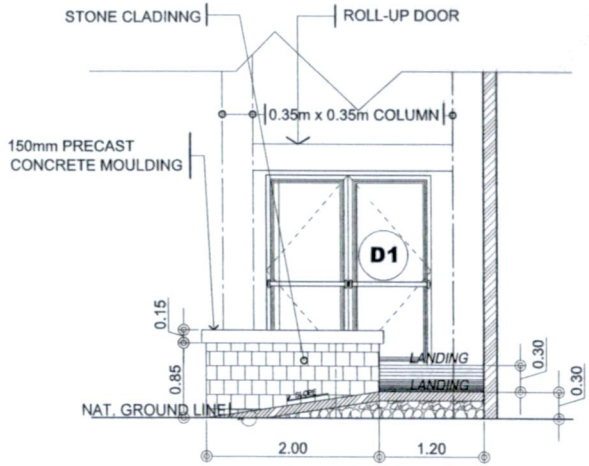
2.



PLAN



SECTION "B-B"



SECTION "A-A"

PLANTBOX DETAIL

A 4 / 1

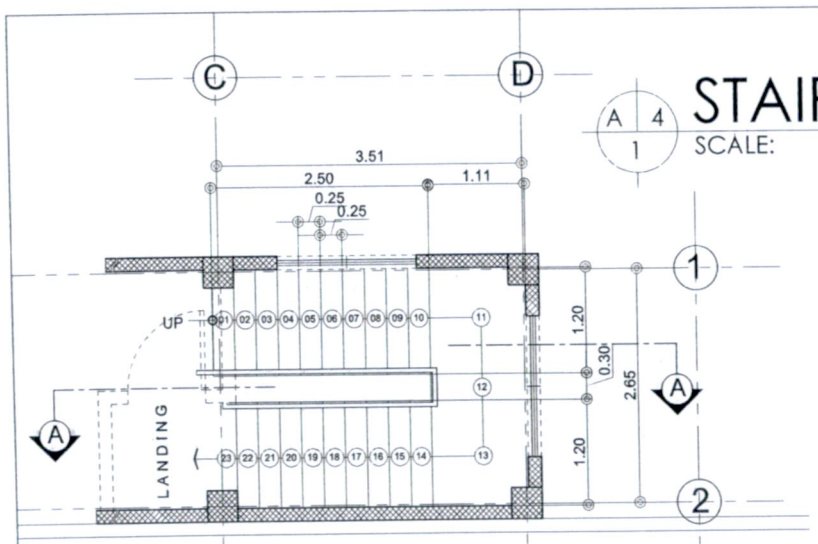
SCALE: 1:20mts

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD CYRIL IAN M. AMARANTO,uap, rmp ARCHITECT III PRC REG. No. 30193 Validity : 04-03-2019 IAPOA No. : 26323 O.R. No. : 207091 Date : 062017 PTR No. : 7912238 Date : 01-05-2019 Place : CITY OF MANILA TIN : 420-080-620	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.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DILAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS • DETAILS OF RAMP	CHECKED ERIC A. GUERRERO, MHA,UAP ARCHITECT IV PRC REG. No. Validity : IAPOA No. : O.R. No. : Date : PTR No. : Date : Place : TIN :	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity : PICE No. : O.R. No. : Date : PTR No. : Date : Place : TIN :	CONCURRED PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	SHEET NO. A5 CADD by : JAMES JUNE Checked by: DATE :

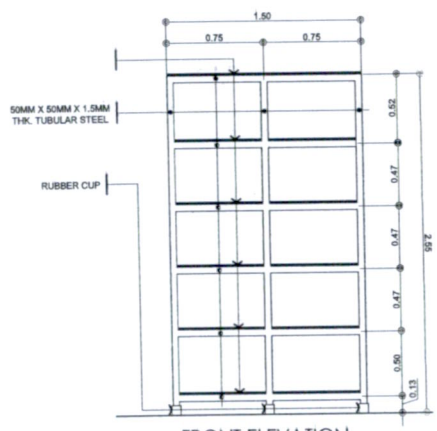
STAIR DETAIL

A 4 / 1

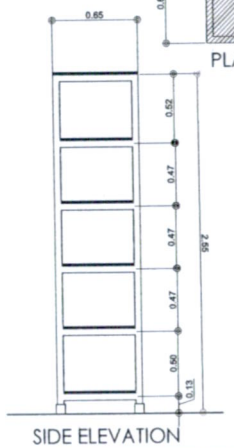
SCALE: 1:20mts



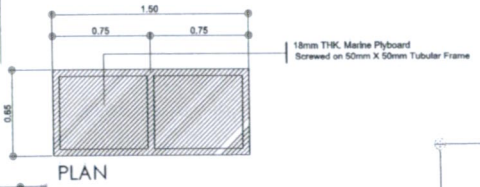
PLAN



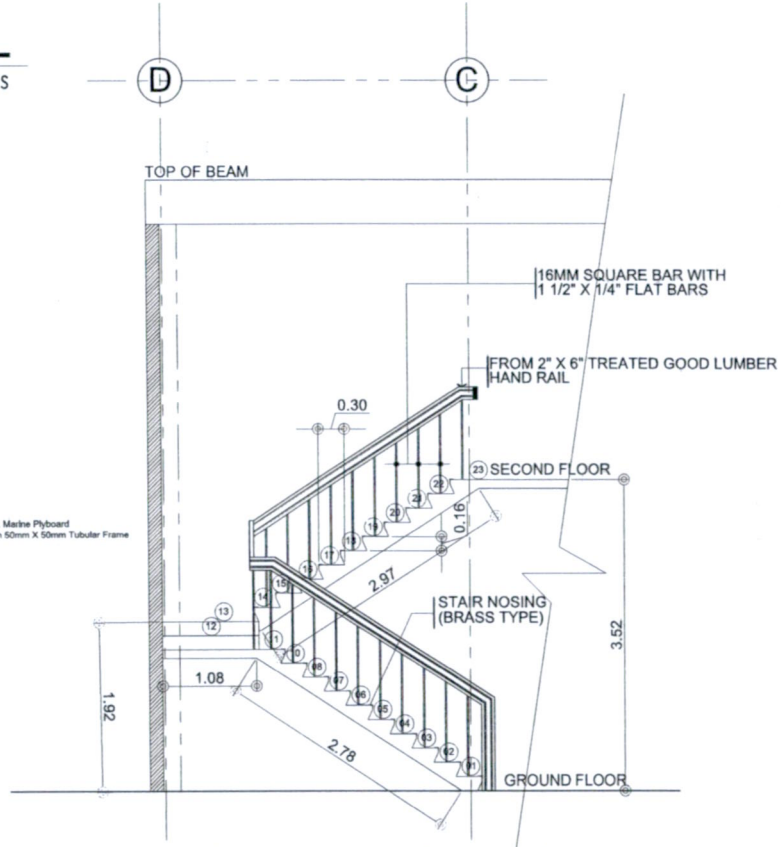
FRONT ELEVATION



SIDE ELEVATION



PLAN



SECTION / ELEVATION

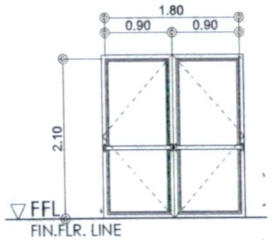
STEEL RACK DETAIL

A 4 / 1

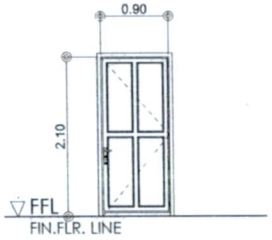
SCALE: 1:20mts

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD CYRIL IAN M. AMARANTO,uap, rmp ARCHITECT III PRC REG. No. 30103 Validity: 04-03-2019 IAPOA No. 26323 O.R. No. 2670961 Date: 092817 PTR No. 7012238 Date: 01-05-2018 Place: CITY OF MANILA TIN: 420-980-620	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 fulfilled or not. It shall be unlawful for any person or applicant to make copies of said documents for use on 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	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS ● STAIR DETAIL'S ● STEEL RACK DETAIL'S	CHECKED ERIC A. GUERRERO, MHA,UAP ARCHITECT IV PRC REG. No. Validity: IAPOA No. O.R. No. Date: PTR No. Date: Place: TIN:	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity: PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	CONCURRED PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	SHEET NO. A6 CADD by: CIMEA SOBE Checked by: DATE :

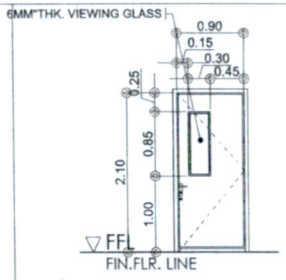
2.



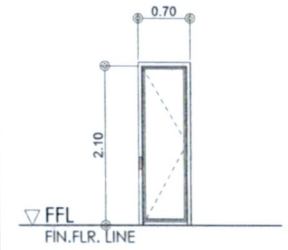
D 1		
	POWDER-COATED ALUM. DOOR	
	DESCRIPTION:	50x100mm TOP,SIDE AND BOTTOM FRAME, W/ 6mm THK. CLEAR GLASS, 50MM X 100 MM POWDER COATED ALUM JAMB.
	DIMENSIONS:	W 1800mm X H 2100mm
	LOCATIONS:	ENTRY PORCH
	HARDWARE:	PIVOT HINGES, DOOR HANDLE , DOOR CLOSER, FLUSH BOLT, DEADBOLT
QTY 1	FINISH:	POWDER COATED, WHITE



D 2		
	SOLID WOOD DOOR	
	DESCRIPTION:	SOLID WOOD DOOR 50MM X 150 MM SOLID WOOD JAMB
	DIMENSIONS:	W 900mm X H 2100mm
	LOCATIONS:	SECOND FLOOR STORAGE ROOM
	HARDWARE:	SS HINGES, HEAVY DUTY LEVER-TYPE DOOR KNOB, DEAD BOLT, FLUSH BOLT
QTY 1	FINISH:	DUCO



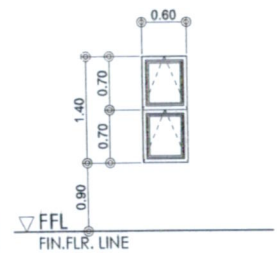
D 3		
	SOLID WOOD DOOR	
	DESCRIPTION:	SOLID WOOD DOOR 50MM X 150 MM SOLID WOOD JAMB
	DIMENSIONS:	W 900mm X H 2100mm
	LOCATIONS:	SECOND FLOOR STORAGE ROOM
	HARDWARE:	SS HINGES, HEAVY DUTY LEVER-TYPE DOOR KNOB, DEAD BOLT, FLUSH BOLT
QTY 1	FINISH:	DUCO



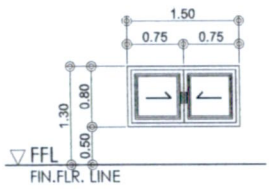
D 4		
	POWDER-COATED ALUM. DOOR	
	DESCRIPTION:	50x100mm TOP,SIDE AND BOTTOM FRAME, W/ 6mm THK. CLEAR GLASS, 50MM X 100 MM POWDER COATED ALUM JAMB.
	DIMENSIONS:	W 700mm X H 2100mm
	LOCATIONS:	OFFICE AREA
	HARDWARE:	PIVOT HINGES, DOOR HANDLE , DOOR CLOSER, FLUSH BOLT, DEADBOLT
QTY 1	FINISH:	POWDER COATED, WHITE

NOTE:

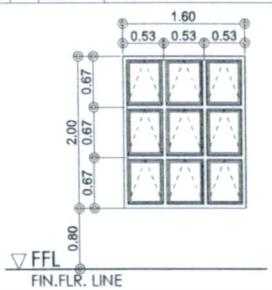
CONTRUCTOR MUST VERIFY ACTUAL MEASUREMENTS AT JOBSITE BEFORE FABRICATION AND INSTALLATION



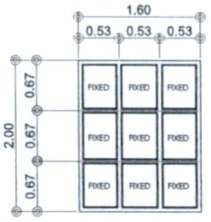
W 1		
	POWDER COATED AWNING WINDOW	
	DESCRIPTION:	6mm THK. BRONZE GLASS ON POWDER COATED ALUMINUM FRAME PROVIDE INSECT SCREEN.
	DIMENSIONS:	W 600mm X H 1.40mm
	LOCATIONS:	SEE PLAN
	HARDWARE:	AWNING WINDOW MECHANISM, LOCK
QTY 12	FINISH:	POWDER COATED



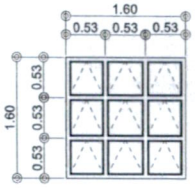
W 2		
	POWDER COATED SLIDING WINDOW	
	DESCRIPTION:	6mm THK. BRONZE GLASS ON POWDER COATED ALUMINUM FRAME PROVIDE INSECT SCREEN.
	DIMENSIONS:	W 1500mm X H 1300mm
	LOCATIONS:	SEE PLAN
	HARDWARE:	SLIDING WINDOW MECHANISM, LOCK
QTY 1	FINISH:	POWDER COATED



W 3		
	POWDER COATED AWNING WINDOW	
	DESCRIPTION:	6mm THK. BRONZE GLASS ON POWDER COATED ALUMINUM FRAME PROVIDE INSECT SCREEN.
	DIMENSIONS:	W 1600mm X H 2000mm
	LOCATIONS:	SEE PLAN
	HARDWARE:	AWNING WINDOW MECHANISM, LOCK
QTY 1	FINISH:	POWDER COATED



W 4		
	POWDER COATED FIXED WINDOW	
	DESCRIPTION:	6mm THK. BRONZE GLASS ON POWDER COATED ALUMINUM FRAME PROVIDE INSECT SCREEN.
	DIMENSIONS:	W 1600mm X H 2000mm
	LOCATIONS:	SEE PLAN
	HARDWARE:	FIXED WINDOW MECHANISM, LOCK
QTY 2	FINISH:	POWDER COATED



W 5		
	POWDER COATED AWNING WINDOW	
	DESCRIPTION:	6mm THK. BRONZE GLASS ON POWDER COATED ALUMINUM FRAME PROVIDE INSECT SCREEN.
	DIMENSIONS:	W 1600mm X H 1600mm
	LOCATIONS:	SEE PLAN
	HARDWARE:	AWNING WINDOW MECHANISM, LOCK
QTY 1	FINISH:	POWDER COATED

SCHEDULE OF DOORS, WINDOWS AND ROLL-UP DOORS

A 7 / 1

SCALE: 1:35mts

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD CYRIL IAN M. AMARANTO,uap, rmp ARCHITECT III PRC REG. No. 30153 Validity 04-03-2019 IAPOA No. 26023 O.R. No. 207081 Date 062017 PTR No. 7012238 Date 01-05-2018 Place : CITY OF MANILA TIN : 425-080-620	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 architects, 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 on other projects, or for other projects or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS • SCHEDULE OF DOOR'S WINDOW'S	CHECKED ERIC A. GUERRERO, MHA,UAP ARCHITECT IV PRC REG. No. Validity IAPOA No. O.R. No. Date PTR No. Date Place : TIN :	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place : TIN :	CONCURRED PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFSB	SHEET NO. A7 CADD by: [illegible] Checked by: DATE :

STRUCTURAL SPECIFICATIONS AND STANDARD DETAILS

1.0 GENERAL

1.1 MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING BUILDING CODES:

1.1.1. NATIONAL STRUCTURAL CODE OF THE PHILIPPINES 2015 (NSCP), 7TH EDITION

1.1.2. ASEP STEEL HANDBOOK 2440, 3RD EDITION
ASSOCIATION OF STRUCTURAL ENGINEERS OF THE PHILIPPINES

1.2. ALL DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES UNLESS OTHERWISE INDICATED.

1.3. FOR ALL OTHER REQUIREMENTS REFER TO THE ARCHITECTURAL, SANITARY, STRUCTURAL, ELECTRICAL & MECHANICAL WORKING DRAWINGS.

2.0 CONCRETE

2.1. UNLESS OTHERWISE SPECIFIED, THE MINIMUM 28 - DAYS CYLINDER COMPRESSIVE STRENGTH ARE AS FOLLOWS.

FOOTINGS	20.7 MPa (3,000 PSI)
COLUMNS	20.7 MPa (3,000 PSI)
SUSPENDED SLABS, BEAMS & GIRDERS	20.7 MPa (3,000 PSI)
ELEVATOR & STAIRWELL CORES, R.C. WALLS	20.7 MPa (3,000 PSI)
PARTITIONS & PARAPET WALLS	20.7 MPa (3,000 PSI)
BEDDED SLABS, CATCH BASINS & SIDEWALK	17.2 MPa (2,500 PSI)

2.2. ALL CONCRETE MUST BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN CONCRETE INSTITUTE (ACI-318)

2.3. STRIPPING FORMS AND SHORES SHALL BE AS FOLLOWS :

FOUNDATIONS	1 DAY
COLUMNS & WALLS	7 DAYS
BEAMS & GIRDERS	14 DAYS
SLABS	14 DAYS

2.4. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, REHANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKET OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONC. FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX METERS (20 FEET) IN AGGREGATE LENGTH. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS IS EXTREMELY DIFFICULT TO ACCOMPLISH.

3.0 REINFORCING BARS

3.1. SCHEDULE OF REINFORCING BARS ARE AS FOLLOWS:

10 MM Ø AND SMALLER BARS (UNLESS NOTED OTHERWISE)	GRADE 33 (230 MPa)
12 MM Ø AND LARGER BARS	GRADE 40 (275 MPa)

3.2. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. REINFORCING STEEL OF DIFFERENT GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM ON SITE.

3.3. IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. SPLICES SHALL BE SECURELY WIRED TOGETHER. STAGGER SPLICES AT LEAST 600 MM. WHENEVER POSSIBLE IN BEAMS AND SLABS SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEER.

3.4. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH), UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

3.5. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE :

CONCRETE CAST AGAINST EARTH	75 MM
EXPOSED TO EARTH OR OF WEATHER	50 MM
SLAB, WALLS AND JOISTS	20 MM
BEAMS AND COLUMNS	40 MM
SHELLS FOLDED PLATE MEMBERS	12 MM

3.6. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE - REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY. REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A-706. REINFORCING STEEL NOT CONFORMING TO ASTM A-706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.

3.7. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDED WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE FY = 40 KSI. LAP 152 MM. MINIMUM OR ONE FULL MESH, WHICHEVER IS GREATER FOR SLABS ON GRADE.

3.8. SHOP DRAWINGS : THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR REINFORCING BARS.

3.9. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

4.0. STRUCTURAL STEEL

4.1. ALL STRUCTURAL MILL SECTIONS BUILT UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC'S LATEST "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."

4.2. DESIGN LOADS FOR BUILDINGS SHALL MEET THE REQUIRED STRUCTURAL DESIGN CRITERIA.

4.3. STEEL PLATES, SHAPES, BARS AND METAL FABRICATIONS: ASTM A-36.

4.4. STRUCTURAL BOLTS AND NUTS:
ASTM A-325, 7/8Ø AND BELOW
A-490 1" Ø AND ABOVE

4.5. SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.

4.6. UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E70XX. PROVIDE ALL AROUND WELD WITH MINIMUM THICKNESS OF 8f 6mm UNLESS NOTED OTHERWISE.

4.7. FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITHINELATEST "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

4.8. ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPED OR GOUGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED.

4.9. SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. OF 2.0 MILS.

4.10. TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.

4.11. COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACYOF TEMPORARY CONNECTIONS AND ALIGNMENT.

4.12. CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT SETTING, PRIMARY AND SECONDARY FRAMING, AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.

5.0. FORMWORKS

5.1. FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIES OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO INSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.

5.2. FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE.

5.3. NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.

5.4. FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICEABILITY OF THE STRUCTURE.

6.0 FOUNDATION

6.1. FOUNDATION IS DESIGNED USING ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 150 kPA.

6.1.1. SOIL TEST SHALL BE CONDUCTED PRIOR TO START OF CONSTRUCTION.

6.1.2. IN CASE THE ACTUAL SOIL BEARING CAPACITY IS FOUND LESS THAN THE ASSUMED, 150 kPA, NOTIFY THE STRUCTURAL ENGINEER FOR PROPER REVISION OF FOUNDATION.

6.2. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.

6.3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.

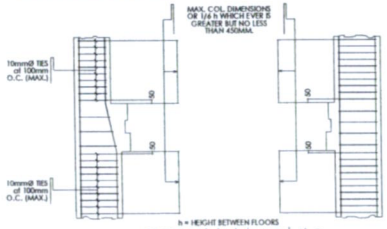
6.4. ALL TIE BEAMS AND FOOTINGS SHALL REST ON 100MM THK. WELL COMPACTED GRAVEL BASE COARSE.

6.5. WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EMBEDMENT INDICATED, EXCAVATE TO FIRM LAYER AND REPLACE LOOSE/MATERIAL UNDERNEATH THE FOOTING WITHIN THE FOOTING AREA PLUS 1/2 DEPTH OF SOFT SOIL MATERIAL ON ALL SIDES WITH SELECT GRANULAR BACKFILL COMPACT GRANULAR BACKFILL TO 95% OF MAXIMUM DRY DENSITY.

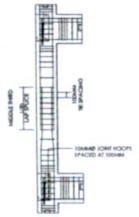
6.6. BACKFILL SHALL BE PLACED IN LAYER AND EACH LAYER SHALL BE 200MM THK. AND SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY.

7.0 CONCRETE COLUMNS

7.0 COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONC. CAST MONOLITHICALLY WITH THE CORE WITH MIN. THICKNESS OF 1 ½" AND NOT LESS THAN ⅙ TIMES MAX. SIZE OF COARSE AGGREGATE. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENT SHALL BE OFFSET AT A SLOPE NOT MORE THAN 1" AND EXTRA. 12mm AT 7' O.C. SHALL BE PROVIDED THROUGHOUT THE OFFSET REGION.



COLUMN DETAILS

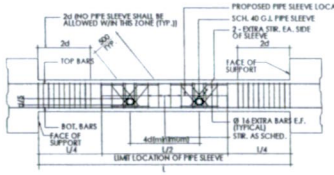


COLUMN SPLICE

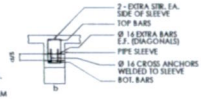
8.0 BEAMS & GIRDERS

8.1. CAMBER ALL BEAMS AND GIRDERS AT LEAST 10 MM FOR EVERY 4.00M OF SPAN .

8.2. FOR TWO OR MORE LAYERS OF REINFORCING BARS, USE SEPARATORS SPACED AT 900 MM O.C. AND IN NO CASE SHALL BE LESS THAN TWO (2) SEPARATORS.



NOTES:
1. MAXIMUM PIPE SLEEVE DIAMETER:
   A. ⅓ OF BEAM DEPTH.
   B. 100 MM
2. SEEK STRUCTURAL ENGINEER'S APPROVAL FOR PIPE SLEEVES BIGGER THAN THE MAXIMUM STIPULATED.
3. PIPE SLEEVES SHALL BE LOCATED WI/IN TENSION ZONES.
4. NO PIPE SLEEVE SHALL BE ALLOWED AT TWICE THE BEAM DEPTH (2hb) FROM THE SUPPORT.



PIPE SLEEVE THRU BEAM DETAIL

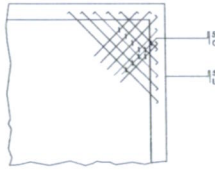
9.0 CONCRETE SLAB

9.1. ALL REINFORCEMENT SHALL BE 20MM CLEAR MINIMUM FROM TOP AND BOTTOM OF SLAB.

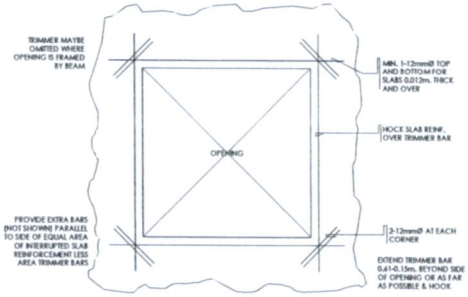
9.2. FOR TWO-WAY SLAB, REINFORCEMENT ALONG THE SHORTER SPAN SHALL BE PLACE BELOW THOSE ALONG THE LONGER SPAN AT CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORT UNLESS OTHERWISE INDICATED OR SHOWN IN DETAILS THE SPACING OF THE BARS AT THE COLUMN STRIPS CAN BE APPROXIMATELY 1-1/2 OF THE MIDDLE STRIP IN NO CASE GREATER THAN 2 TIMES THE SLAB THICKNESS.

9.3. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE TENSION FACE AND SHALL NOT BE LESS THAN 0.0025 BT.

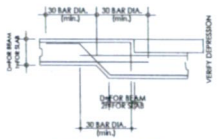
9.4. PROVIDE EXTRA REINFORCEMENT AT CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGE) AS SHOWN BELOW.



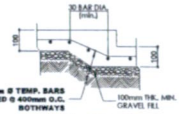
9.5. PROVIDE SUPPLEMENTARY REINFORCEMENT AT SMALL UNFRAMEDOPENINGS IN FLOOR SLABS AS SHOWN BELOW.



9.6. UNLESS OTHERWISE NOTED, ALL BEDDED SLAB SHALL BE REINFORCED WITH 10mmØ BAR AT 0.25m. O.C.E.W. AT CENTER OF SLAB CONSTRUCTION JOINT FOR SLAB SHALL NOT BE MORE THAN 3.00m. APART.

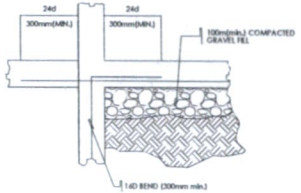


SUSPENDED SLAB



SLAB - ON - FILL

NOTES:
FOR DOWELS:
PROVIDE DOWELS OF SAME SIZE AND SPACING AS HORIZONTAL OR BENT HORIZONTAL BARS.



SLAB ON GRADE

DESIGN CRITERIA

A. DEAD LOAD

1. CEILING AND UTILITIES	0.24 kPa
2. TOPPING AND FINISHES	1.10 kPa
3. TOPPING AND WATERPROOFING	0.96 kPa
4. 4" PLASTERED CHB	3.11 kPa
5. 4" PLASTERED CHB	2.98 kPa
6. 6" CHB EXTERIOR WALL W/ OPENING	2.98 kPa

B. LIVE LOAD

1. WAREHOUSE	6.00 kPa
2. ROOF LIVE LOAD	1.00 kPa
3. MOVABLE LOAD	1.00 kPa

C. WIND LOAD

1. WIND EXPOSURE	EXPOSURE B
2. BASIC WIND SPEED	300 KPH
3. VELOCITY PRESSURE	$q_z = 0.613\ K_z K_{zt} K_d V^2$ (N/m²); V in m/s
4. VELOCITY PRESSURE EXPOSURE	$K_z = 2.01\ (z/z_g)^{2/\alpha}$
5. TOPOGRAPHIC FACTOR	$K_{zt} = 1.00$
6. WIND DIRECTIONALITY FACTOR	$K_d = 0.85$
7. WIND PRESSURE	$p = q_z h\ [(GC_{pf}) \pm (GC_{pi})]$

D. SEISMIC LOAD

1. SEISMIC ZONE	ZONE 4, Z = 0.4
2. SOIL PROFILE TYPE	Sd
3. SEISMIC SOURCE	TYPE A
4. SEISMIC SOURCE PROXIMITY	> 15KM FROM VFS
5. SEISMIC COEFFICIENTS	$C_a = 0.44N_a$ $C_v = 0.64N_v$
6. NEAR-SOURCE FACTOR	$N_a = 1.0$ $N_v = 1.0$
7. IMPORTANCE FACTOR	I = 1.5
8. NUMERICAL COEFFICIENT	R = 8.5
9. PERIOD OF VIBRATION	$T = C_t (h_n)^{3/4}$ $C_t = 0.0731$ (CONCRETE)
10. BASE SHEAR	$V = C_v I W / (R T)$ $\leq 2.5\ C_a I W / R$ $\geq 0.11\ C_a I W$ $\geq 0.80\ Z N_v I W / R$

Republic of the Philippines
DEPARTMENT OF HEALTH
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM
Bldg. 18, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ENGINEER OF RECORD	PROJECT	SHEET CONTENTS	CHECKED	CHECKED	CONCURRED	RECOMMENDING APPROVAL	APPROVED	SHEET NO.
GILBERT V. PASIONA CIVIL/STRUCTURAL ENGINEER III PRC REG. No. 0128482 Validity: 10.27.2019 PTR No. 7012239 Date: 01.05.2019 Place: CITY OF MANILA TIN: 440-893-470	PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DILAO Brgy. Highway, Dulag, Leyte	STRUCTURAL SPECIFICATIONS AND STANDARD DETAILS	SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity: PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity: PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFSB	S1 CADD by : DP Checked by: DP DATE :

RA 8506 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.

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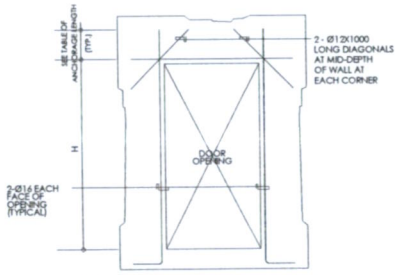
STRUCTURAL SPECIFICATIONS AND STANDARD DETAILS

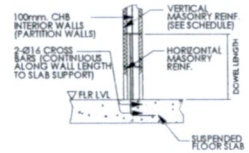
10.0 CONCRETE HOLLOW BLOCKS

REINFORCEMENT AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN:

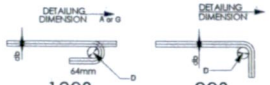
CONCRETE HOLLOW BLOCK REINFORCEMENT			
BLOCK THK.	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 MM	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	A. MIN. SPLICE AT LAP = 10' B. PROVIDE RIGHT ANGLE REINFORCEMENT AT CORNERS 3'-0' LONG. C. WHERE CHB WALLS ADJOINING COLS. R.C. BEAMS. WALL DOWELS W/ SAME SIZE AS VERT. OR HOR. REINFORCEMENT SHALL BE PROVIDED.
100 MM	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	
125 MM	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	
150 MM	10mm Ø @ 600mm O.C.	10mm Ø @ 600mm O.C.	

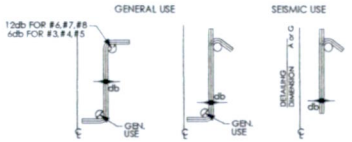


DOOR OPENING DETAIL

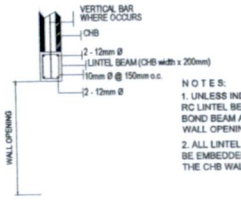


TYP. CHB PARTITION ON SUSPENDED SLAB





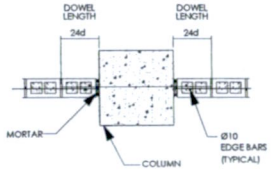
BEAM BEAM BEAM



NOTES:

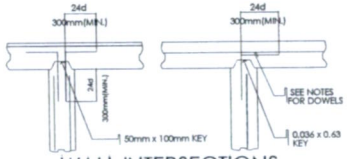
1. UNLESS INDICATED OTHERWISE USE RC LINTEL BEAM AT THE TOP AND RC BOND BEAM AT THE BOTTOM OF ALL WALL OPENING & TOP OF PARAPET WALL
2. ALL LINTEL AND BOND BEAMS SHALL BE EMBEDDED AT LEAST 600MM INTO THE CHB WALL

TYPICAL LINTEL AND BOND DETAIL



TYP. OF CHB TO STEEL COLUMN CONNECTION

BAR SIZE	D. (mm)	STIRRUPS AND TIE HOOKS, ALL GRADES				
		GENERAL USE			SEISMIC USE	
		90° HOOK	135-DEG HOOK		135-DEG HOOK	
		A OR G	A OR G	H. APPROX.	A OR G	H. APPROX.
#3(Ø10)	38.1mm	101.6mm	101.6mm	50.8mm	127mm	88.9mm
#4(Ø12)	50.8mm	114.3mm	114.3mm	76.2mm	143mm	144.3mm
#5(Ø16)	63.5mm	152.4mm	139.7mm	95.3mm	203mm	139.7mm
#6(Ø19)	144.3mm	304.8mm	196.8mm	114.3mm	273mm	165.1mm
#7(Ø22)	133.4mm	355.6mm	228.6mm	133.4mm	317mm	196.9mm
#8(Ø25)	152.4mm	406.4mm	260.4mm	152.4mm	362mm	228.6mm



WALL INTERSECTIONS

TABLE OF LAP SPLICE & ANCHORAGE LENGTH											
BAR DIAMETER (mm)	ANCHORAGE LENGTH (m)	STANDARD HOOK (m)			LAP SPLICE (m)				UNIT WEIGHT (Kg/m)	MIN. LAP SPLICE LENGTH OF COL. REINF. INDIVIDUAL BARS	
					TENSION BAR		COMP. BAR				
		90 DEG	180 DEG	135 DEG	TOP BAR	BOT BAR	TOP BAR	BOT BAR		W/ TIES	W/ SPIRAL
10	0.60	0.15	0.13	0.10	0.42	0.30	0.42	0.30	0.617	0.30	0.30
12	0.60	0.20	0.15	0.12	0.42	0.30	0.42	0.30	0.889	0.30	0.30
16	0.60	0.25	0.18	0.14	0.73	0.52	0.87	0.62	1.580	0.52	0.47
18	0.60	0.30	0.20	0.20	0.91	0.65	1.10	0.78	2.469	0.65	0.58
20	0.68	0.40	0.28	0.26	1.15	0.82	1.40	1.00	3.858	0.80	0.73
25	0.86	0.48	0.38		1.45	1.03	1.53	1.09	4.840	0.90	0.82
32	1.12	0.56	0.43		1.90	1.35	1.74	1.24	6.327	1.03	0.93
36	1.43	0.61	0.48		2.40	1.70	2.00	1.40	8.000	1.20	1.05

NOTES :

1. ACI SECTION 12.4 STATES THAT DEVELOPMENT LENGTH OF INDIVIDUAL BARS W/IN A BUNDLE, IN TENSION OR COMPRESSION, SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20% FOR THREE BAR BUNDLE, AND 33% FOR FOUR-BAR BUNDLE.
2. FOR COLUMNS, AT ANY LEVEL NO MORE THAN ALTERNATE BARS SHOULD BE SPLICED. NOT MORE THAN 33 % OF THE BARS SHALL BE SPLICED W/IN THE REQUIRED LAP LENGTH. MINIMUM DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600 MM.
3. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300 MM DEPTH OF CONCRETE CAST BELOW THHE REINFORCEMENT.
4. AS MUCH AS POSSIBLE, SPLICES SUBJECTED TO TENSILE STRESSES ARE DISCOURAGE, THESE SHOULD BE AVOIDED OR PROVIDED W/ STANDARD HOOKS.

11.0 CONSTRUCTION JOINTS

11.1. SURFACE OF CONCRETE CONSTRUCTION JOINTS SHALL BE CLEANED AN LATANCE REMOVED.

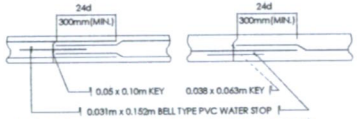
11.2. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINT SHALL BE WETTED AND STANDING WATER REMOVED.

11.3 CONSTRUCTION JOINT SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGH CONSTRUCTION JOINTS. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 6 MM.

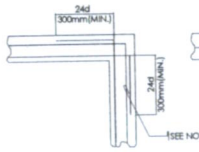
11.4 CONSTRUCTION JOINTS IN FLOORS SHALL BELOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS, BEAMS AND GIRDERS. JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF THE INTERSECTING BEAMS.

11.5 BEAMS, GIRDERS OR SLABS SUPPORTED BY COLUMNS OR WALLS SHALL NOT BE CAST OR ERECTED UNTIL CONCRETE IN THE VERTICAL SUPPORT MEMBERS IS NO LONGER PLASTIC.

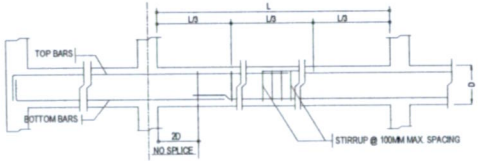
11.6 BEAMS, GIRDERS, HAUNCHES, DROP PANELS AND CAPITALS SHALL BE PLACED MONOLITHICALLY AS PART OF A SLAB SYSTEM, UNLESS OTHERWISE SHOWN IN DESIGN DRAWINGS OR SPECIFICATIONS.



WALL CONSTRUCTION JOINT

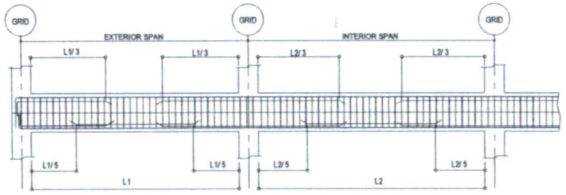


WALL CORNERS

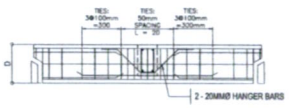


TYPICAL SPLICE DETAILS FOR BEAMS FRAMING INTO COLUMNS

SPLICE DETAIL

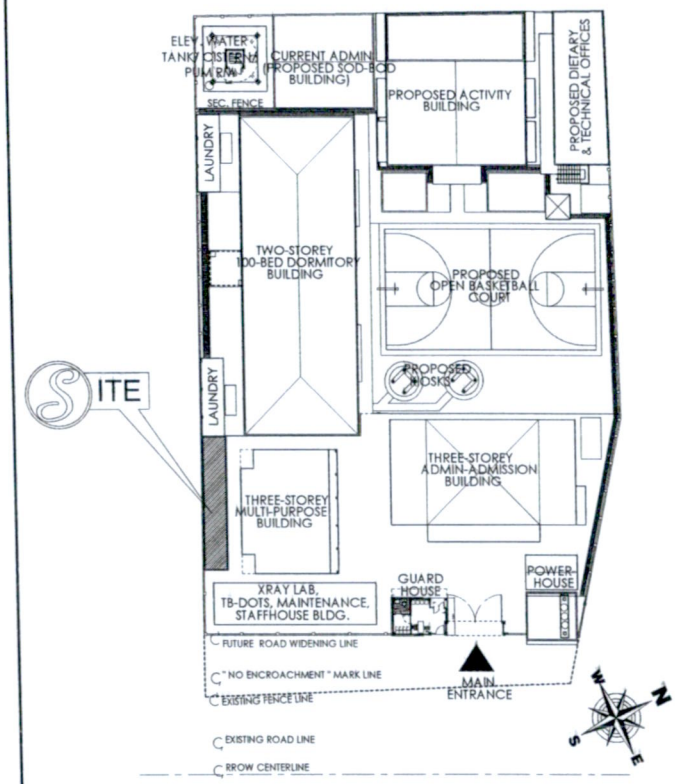


TYPICAL BEAM DETAIL

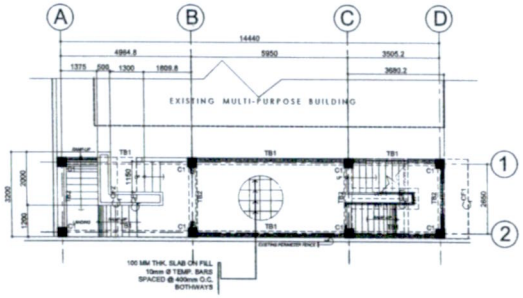


TYP. BEAM TO GIRDER CONNECTION DETAIL

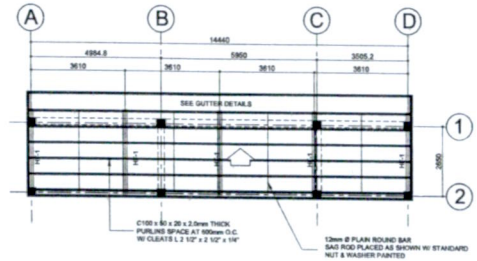
Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 18, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ENGINEER OF RECORD GILBERT V. PASIONA CIVIL/STRUCTURAL ENGINEER III PRC REG. No. 0139462 Validity 10.27.2019 PTR No. 7512288 Date 01.05.2018 Place CITY OF MANILA TIN 440-002-670	RA 9266 SECTION 33 Drawings and specifications and other contract documents duly signed, stamped or sealed, are instruments of service, are the intellectual property and shall remain the property of the author-designer, for object for which they are made or executed or not. It shall be unlawful for any person to duplicate or make copies of said documents for use in the completion 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	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS STRUCTURAL SPECIFICATIONS AND STANDARD DETAILS	CHECKED SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place TIN	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place TIN	CONCURRED PORTIA G. ALIPOSA , MD..DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PENAFIEL, CESO IV DIRECTOR III, HFDS	SHEET NO. S2 CADD by : SP Checked by: SP DATE :



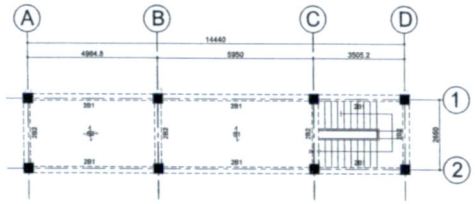
MASTER SITE DEVELOPMENT PLAN
SCALE : 1:1000METERS



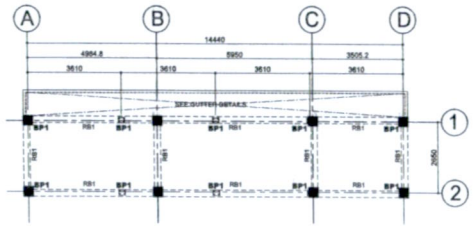
FOUNDATION PLAN
SCALE : 1:100METERS



ROOF FRAMING PLAN
SCALE : 1:100METERS



SECOND FLOOR FRAMING PLAN
SCALE : 1:100METERS



ROOF BEAM PLAN
SCALE : 1:100METERS

MARK (SIZE mm)	@ SUPPORT		@ MIDSPAN		STIRRUPS
TB1 250X500		3-20MMØ 2-12MMØ 3-20MMØ		2-20MMØ 2-12MMØ 2-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN
TB2 250X500		4-20MMØ 2-12MMØ 4-20MMØ		2-20MMØ 2-12MMØ 2-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN
2B1 250X500		4-20MMØ 2-12MMØ 3-20MMØ		2-20MMØ 2-12MMØ 3-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN
2B2 250X500		3-20MMØ 2-12MMØ 3-20MMØ		2-20MMØ 2-12MMØ 2-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN
RB1 250X500		2-20MMØ 2-12MMØ 2-20MMØ		2-20MMØ 2-12MMØ 2-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN
SB1 250X500		3-20MMØ 2-12MMØ 2-20MMØ		2-20MMØ 2-12MMØ 2-20MMØ	10mmØ TIES SPACED 4 @ 50, 8 @ 100, REST @ 200MM O.C. TO MID-SPAN

SCHEDULE OF BEAMS
SCALE : 1:25METERS

Republic of the Philippines
DEPARTMENT OF HEALTH
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM
Bldg. 16, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ENGINEER OF RECORD	RA 9266 SECTION 33
GILBERT V. PASIONA CIVIL/STRUCTURAL ENGINEER III PRC REG. No. 0128482 Validity 10.27.2019 PTR No. 7012239 Date 01.05.2018 Place : CITY OF MANILA TIN : 440-692-470	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

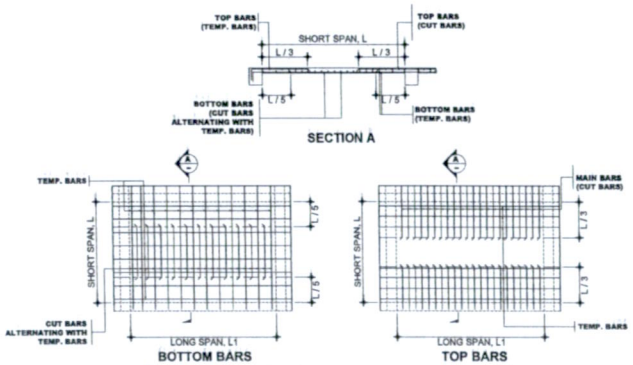
PROJECT	SHEET CONTENTS
PROPOSED TWO-STOREY SUPPLY WAREHOUSE	MASTER SITE DEVELOPMENT PLAN SECOND FLOOR FRAMING PLAN ROOF BEAM PLAN ROOF FRAMING PLAN SCHEDULE OF BEAMS
LOCATION: DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG, Brgy. Highway, Dulag, Leyte	

CHECKED	CHECKED	CONCURRED	RECOMMENDING APPROVAL	APPROVED	SHEET NO.
SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place : TIN :	MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place : TIN :	PORTIA G. ALIPOSA , MD.,DPAPP O.I.C. - TRC CHIEF	MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PENAFIEL, CESO IV DIRECTOR III, HFDB	S3 CADD by : SP Checked by : SP DATE :

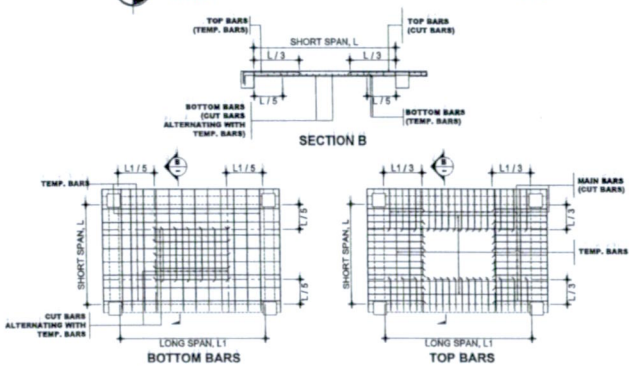
5.

SLAB MARK	THICKNESS (mm)	REBAR SIZE	REBAR SPACING PARALLEL TO SHORT SPAN (mm)								REBAR SPACING PARALLEL TO LONG SPAN (mm)								REMARKS
			COLUMN STRIP				MIDDLE STRIP				COLUMN STRIP				MIDDLE STRIP				
			@SUPPORT		@MIDSPAN		@SUPPORT		@MIDSPAN		@SUPPORT		@MIDSPAN		@SUPPORT		@MIDSPAN		
			TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.	TOP	BOT.	
S1	125	12mmØ	150	300	-	150	150	300	-	150	300	300	300	300	-	-	-	-	ONE-WAY
S2	125	12mmØ	150	300	300	300	150	300	-	150	150	300	300	300	150	300	-	150	TWO-WAY

SCHEDULE OF SLABS
SCALE : N.T.S.



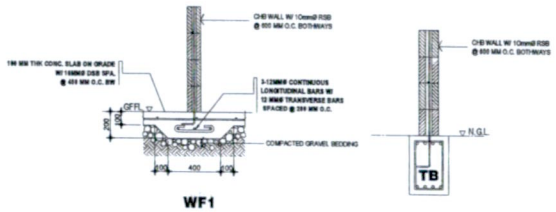
ONE-WAY SLAB DETAILS
SCALE : N.T.S.



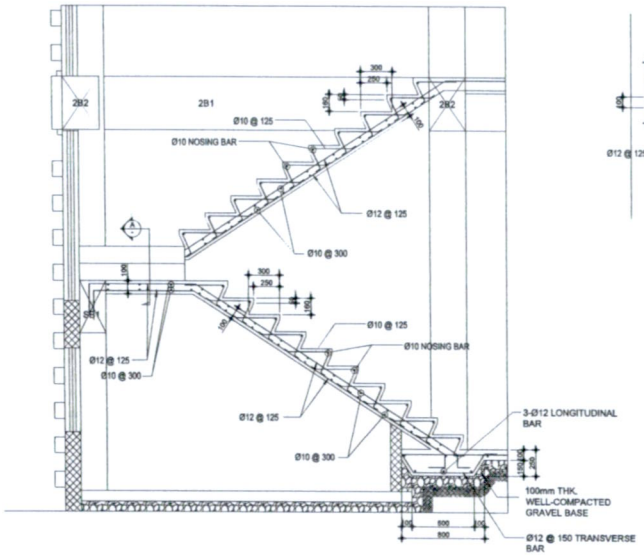
TWO-WAY SLAB DETAILS
SCALE : N.T.S.

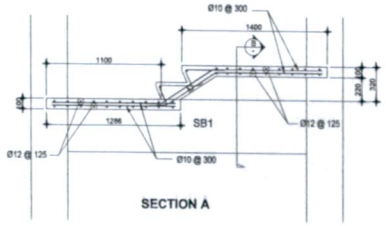
MARK (MAIN COLUMN)	LOCATION: FOUNDATION TO 2ND FLOOR	LOCATION: 2ND FLOOR TO ROOF
C1		
MAIN BARS	350 mm X 350 mm 8 - 20 mm Ø	350 mm X 350 mm 8 - 20 mm Ø
LATERAL TIES	3-SETS 10mm Ø TIES @ 50, 4 @ 100 REST @ 150 mm O.C. TO MID-HEIGHT	3-SETS 10mm Ø TIES @ 50, 4 @ 100 REST @ 150 mm O.C. TO MID-HEIGHT

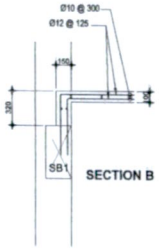
SCHEDULE OF COLUMNS
SCALE : 1:25METERS



WALL FOOTING DETAILS
SCALE : 1:20METERS







STAIR DETAILS
SCALE : 1:25METERS

Republic of the Philippines
DEPARTMENT OF HEALTH
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM
Bldg. 16, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ENGINEER OF RECORD	RA 9266 SECTION 33
GILBERT V. PASIONA CIVIL STRUCTURAL ENGINEER III PRC REG. No. 0129482 Validity 10.27.2019 PTR No. 7012239 Date 01.05.2018 Place CITY OF MANILA TIN 440-882-439	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.

PROJECT	SHEET CONTENTS
PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SCHEDULE OF SLABS ONE-WAY SLAB DETAIL TWO-WAY SLAB DETAIL SCHEDULE OF COLUMNS STAIR DETAIL WALL FOOTING DETAILS

CHECKED	CHECKED	CONCURRED	RECOMMENDING APPROVAL	APPROVED	SHEET NO.
SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place TIN	MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place TIN	PORTIA G. ALIPOSA , MD.,DPAFP O.I.C - TRC CHIEF	MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PENAFIEL, CESO IV DIRECTOR III, HFDD	S4 CADD by : SP Checked by : SP DATE :

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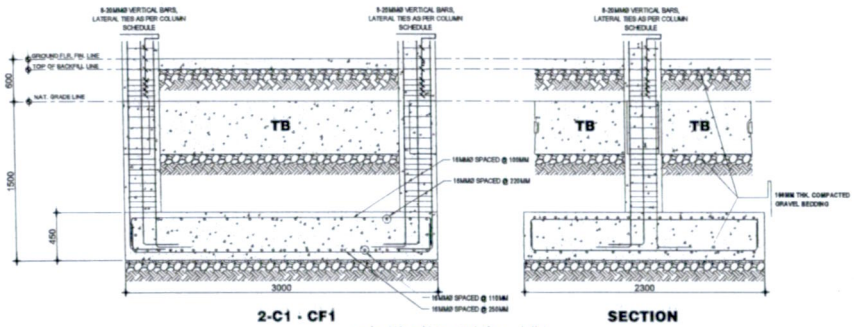
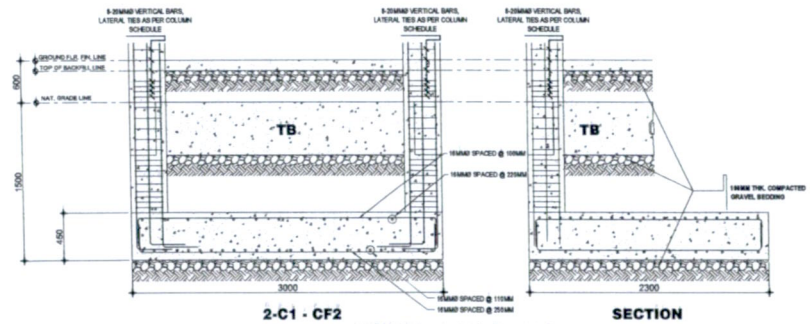


COMBINED FOOTING, CF1



COMBINED FOOTING, CF2

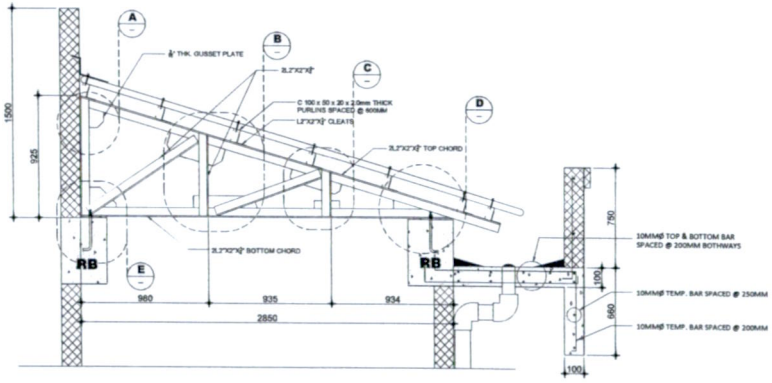
TYPICAL DETAIL OF 2-C2 - CF1 & 2-C2 - CF2

SCALE : 1:25METERS

MARK	DIMENSION (mm.)			BOTTOM BARS		TOP BARS		EMBEDMENT (MM)	REMARKS
	L	W	t	ALONG "L"	ALONG "W"	ALONG "L"	ALONG "W"		
CF1	3000	2300	450	16mmØ @ 250mm O.C.	16mmØ @ 110mm O.C.	16mmØ @ 100mm O.C.	16mmØ @ 220mm O.C.	1500 FROM N.G.L.	COMBINED FOOTING
CF2	3000	2300	450	16mmØ @ 250mm O.C.	16mmØ @ 110mm O.C.	16mmØ @ 100mm O.C.	16mmØ @ 220mm O.C.	1500 FROM N.G.L.	COMBINED FOOTING

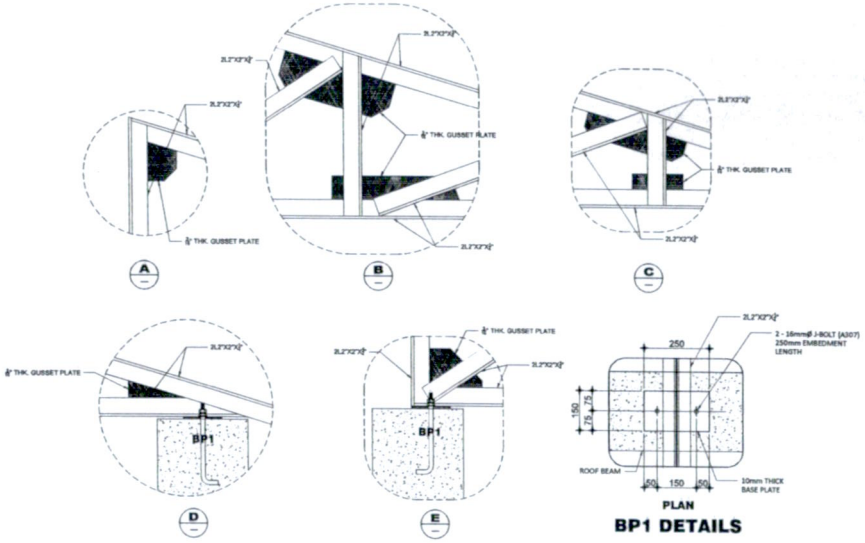
SCHEDULE OF FOOTINGS

SCALE : N.T.S.



TYP. TRUSS DETAIL, HT1

SCALE : 1:20METERS



BP1 DETAILS

SPOT DETAILS

SCALE : 1:10METERS

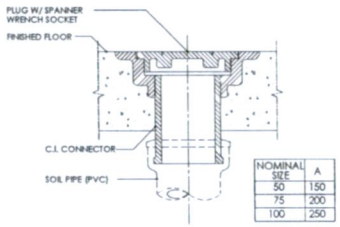
Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 16, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ENGINEER OF RECORD GILBERT V. PASIONA CIVIL/STRUCTURAL ENGINEER III PRC REG. No. 0126482 Validity: 10.27.2019 PTR No. 7012239 Date: 01.05.2019 Place: CITY OF MANILA TIN: 440-693-470	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.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS STRUCTURAL SPECIFICATIONS AND STANDARD DETAILS	CHECKED SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity: PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity: PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	CONCURRED PORTIA G. ALIPOSA, MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PENAFIEL, CESO IV DIRECTOR III, HFSB	SHEET NO. S5 CADD by : SP Checked by: SP DATE :

LEGEND & SYMBOLS

DC	DIGESTIVE CHAMBER	WC	WATER CLOSET
LC	LEACHING CHAMBER	GN	GOOSE NECK
CC	CHLORINATION CHAMBER	DS	DOWNSPOUT
GCO	GROUND CLEANOUT	CB	CATCH BASIN
FR	FLOOR RECEPTOR	PVCP/PVC	POLYVINYL CHLORIDE PIPE
SS	SLOP SINK	BWV	BACK WATER VALVE
FD	FLOOR DRAIN	DD	DECK DRAIN
GT	GREASE TRAP	FCO	FLOOR CLEANOUT
DWS	DISHWASHING SINK	SD	SCUPPER DRAIN
CO	CLEANOUT	GV	GATE VALVE
KS	KITCHEN SINK	F	FAUCET
VSTR	VENT STACK THRU ROOF	CV	CHECK VALVE
LAV	LAVATORY	HB	HOSE BIBB
RD	ROOF DRAIN	TD	TUB DRAIN

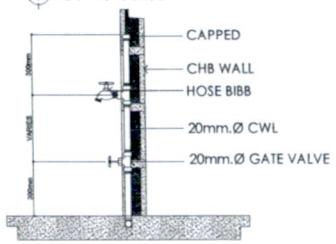
GENERAL NOTES

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, AND THE RULES AND REGULATIONS OF DULAG, LEYTE.
2. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND HEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION ON OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION DEPTHS AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND STRUCTURES VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 0.5% MINIMUM UNLESS OTHERWISE SPECIFIED. IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE ALSO IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

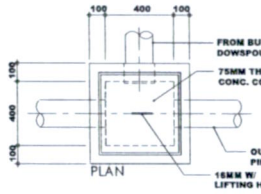


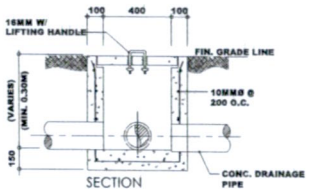
NOMINAL SIZE	A
50	150
75	200
100	250

DETAIL OF FLOOR CLEAN-OUT
NOT TO SCALE

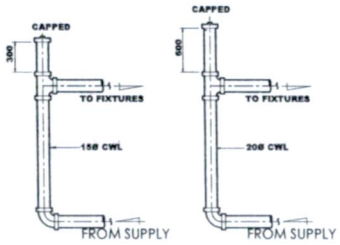


DETAIL OF HOSE BIBB
NOT TO SCALE





CATCH BASIN DETAIL
NOT TO SCALE



DETAIL OF AIR CHAMBER
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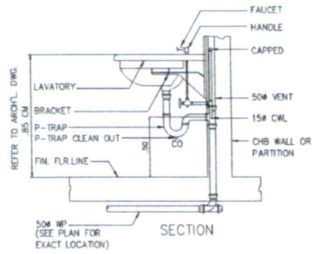
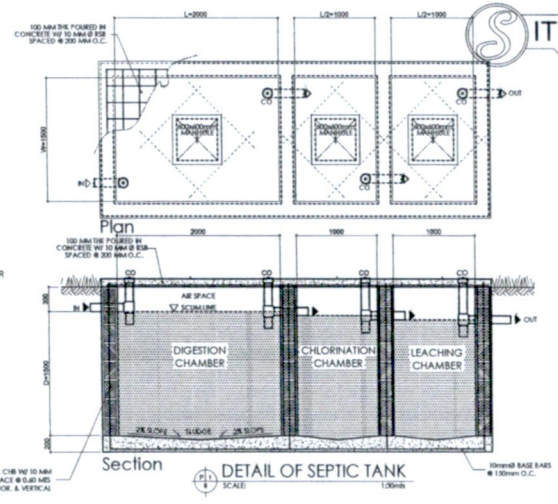
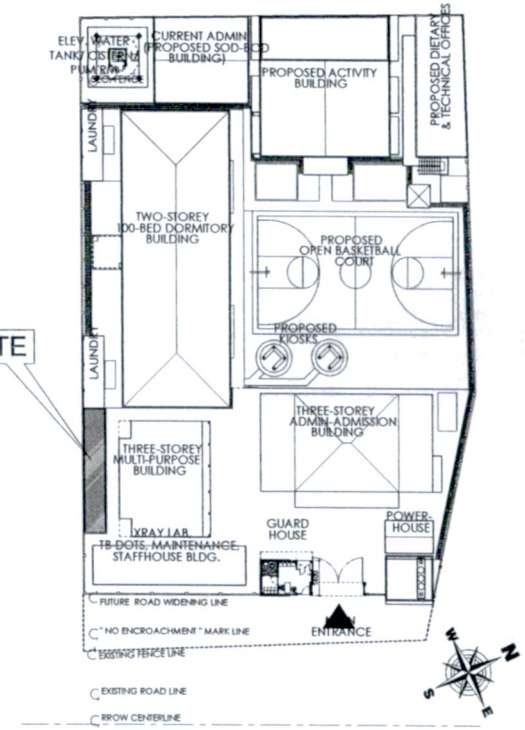


DETAIL OF LAVATORY (MOUNTING)
NOT TO SCALE



DETAIL OF SEPTIC TANK
SCALE 1:50mm



MASTER SITE DEVELOPMENT PLAN
SCALE : 1:1000METERS

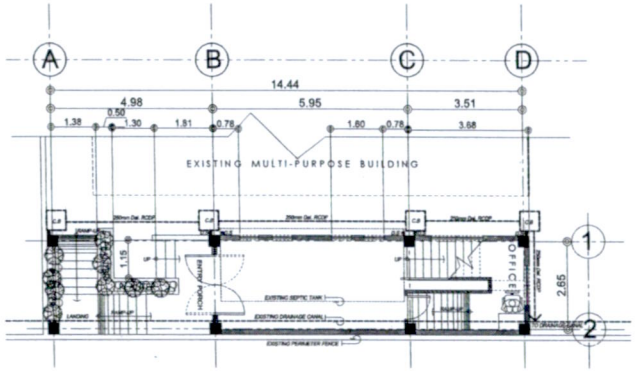
Republic of the Philippines
DEPARTMENT OF HEALTH
DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM
Bldg. 16, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ENGINEER OF RECORD		
JONNEL A. EÑOSA SANITARY ENGINEER III		
PRC REG. No. 0120482	Validity	11.21.2020
PTR No. 3747925	Date	01.09.2018
Place : CITY OF TACLOBO	TIN :	405-789-387

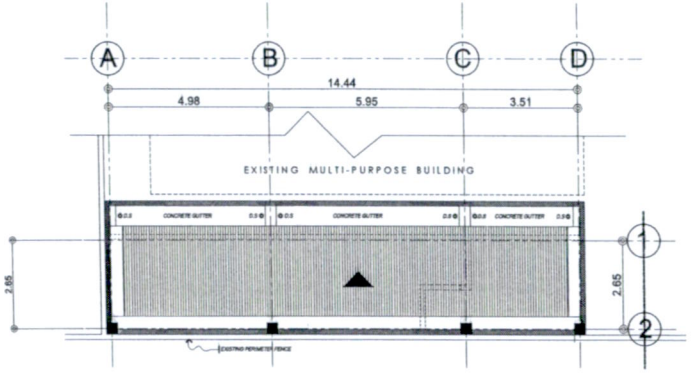
RA 9266 SECTION 33
Drawings and specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the subject for which they are made is executed or not. It shall be unlawful for any person to duplicate or make copies of said documents for use in the creation of and for other projects or buildings, whether partially or in whole, by others without the written consent of the architect or author of said documents.

PROJECT	SHEET CONTENTS
PROPOSED TWO-STOREY SUPPLY WAREHOUSE	GENERAL NOTES
LOCATION	MASTER SITE DEVELOPMENT PLAN
DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	

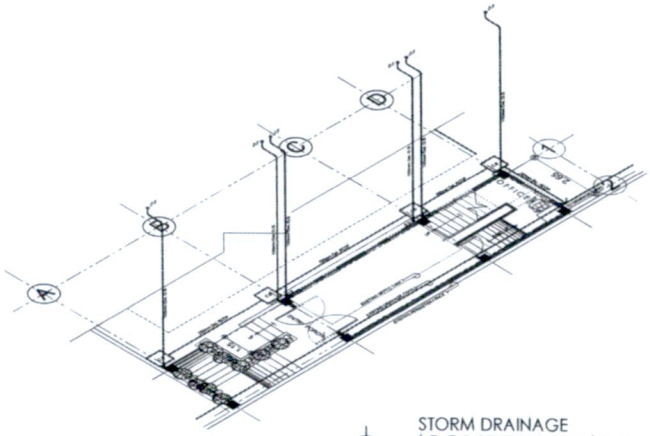
CHECKED	CHECKED	CONCURRED	RECOMMENDING APPROVAL	APPROVED	SHEET NO.
SEVERINO B. REYES III ENGINEER III	MAXIMO A. ADAN, JR., MCM ENGINEER V	PORTIA G. ALIPOSA , MD,,DPAFP O.I.C. - TRC CHIEF	MINERVA P. MOLON,MD,,MPH,,FPPA,,CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	P1
PRC REG. No.	Validity				CADD by : DAVEA DOLE
PICE No.	O.R. No. Date :				Checked by: SP
PTR No.	Date :				DATE :
Place :	TIN :				



STORM DRAINAGE
GROUND FLOOR PLAN
SCALE : 1:80METERS



STORM DRAINAGE
SECOND FLOOR PLAN
SCALE : 1:80METERS



STORM DRAINAGE
ISOMETRIC DIAGRAM
SCALE : 1:80METERS

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 15, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ENGINEER OF RECORD JONNEL A. EÑOSA SANITARY ENGINEER III PRC REG. No. 0139482 Validity: 11.21.2020 PTR No. 3747925 Date: 01.09.2018 Place: CITY OF TACLOBO TIN: 405-789-287	RA 9266 SECTION 33 Drawings and specifications and other contract documents duly signed, stamped or sealed, as instrumentally 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, reproduce, or use the contract documents for use in the repetition of all or part of other projects or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS GRND FLOOR STORM DRAINAGE LAYOUT 2ND FLOOR STORM DRAINAGE LAYOUT STORM DRAINAGE ISOMETRIC DIAGRAM	CHECKED SEVERINO B. REYES III ENGINEER III PRC REG. No. Validity PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	CHECKED MAXIMO A. ÁDAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date: PTR No. Date: Place: TIN:	CONCURRED PORTIA G. ALIPOSA, MD.,DPAFP O.I.C - TRC CHIEF	RECOMMENDING APPROVAL MINERVA P. MOLON,MD.,MPH.,FPPA.,CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFSB	SHEET NO. P2 CADD by : DWS & JDBLE Checked by: BP DATE :

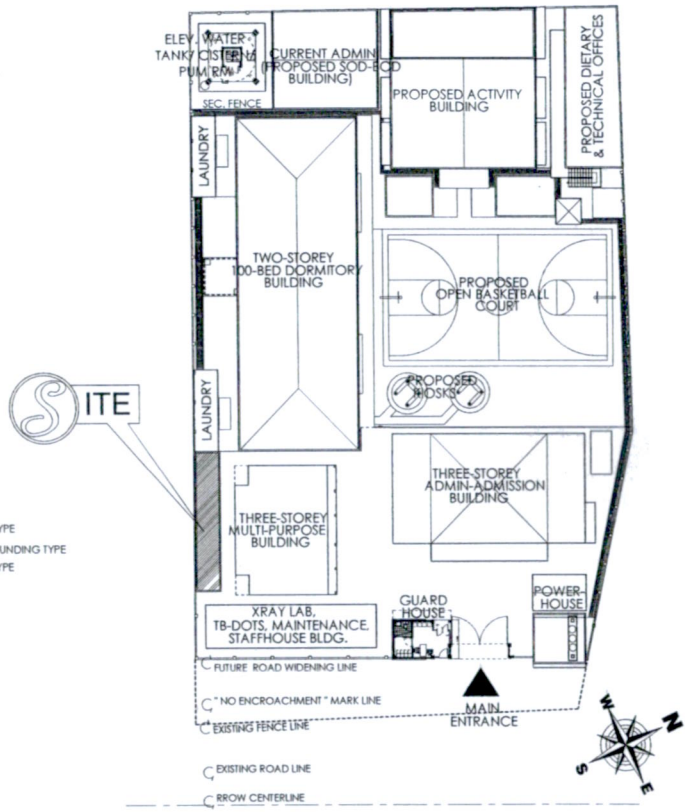
GENERAL NOTES :

1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LOCAL ORDINANCES, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. ALL WORKS HEREIN SHALL BE DIRECTLY SUPERVISED BY A DULY LICENSED ELECTRICAL ENGINEER AS ENFORCED BY THE NEW ELECTRICAL ENGINEERING LAW OR R.A. 7920.
3. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW, OF THE BEST QUALITY AND OF THE APPROVED TYPE AND SHALL BEAR THE MANUFACTURER'S NAME INCLUDING THE "PSA" MARK. PULL BOXES SHALL BE PROVIDED IN APPROPRIATE AREAS EVEN IF NOT INDICATED IN THE PLAN.
5. POWER SUPPLY TO THE BUILDING SHALL BE 2 PHASE, 3-WIRE, 230 VOLTS.
6. RACEWAY SCHEDULE SHALL BE AS FOLLOWS:
   A. CONCRETE PEDESTAL TO MDP - UPVC PIPE SCHEDULE 40.
   B. MDP TO DISTRIBUTION PANELBOARDS - RSC.
   C. BRANCH CIRCUITS FOR POWER, LIGHTING AND AUXILIARY MINIMUM SIZE OF RACEWAY SHALL BE 15 MM. DIAMETER.
7. OUTLET BOXES SHALL HAVE A MINIMUM THICKNESS OF GA. # 16 WITH 1/2 KO AND SHALL BE PAINTED WITH RED LEAD PAINT PRIOR TO INSTALLATION.
8. WIRES AND CABLES SHALL BE OF THE APPROVED TYPE AND BEARING THE "PS" MARK UNLESS SPECIFIED OR INDICATED OTHERWISE. ALL POWER AND LIGHTING CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS MINIMUM.
9. WIRING DEVICES SHALL HAVE MINIMUM RATING OF 10 AMPERES, 250 VOLTS.
10. LIGHTING FIXTURES SHALL CONFORM WITH THE SCHEDULE AS PREPARED BY THE ARCHITECT.
11. PANELBOARDS SHALL CONFORM TO THE LOAD SCHEDULE AS SHOWN ON PLANS WITH RESPECT TO BREAKER PHASE ARRANGEMENT, RATING, CAPACITY AND SHORT CIRCUIT CONSIDERATION.
12. FIRE ALARM DEVICES SHALL COMPLY WITH THE NFPA PROVISIONS AND SHALL BEAR THE "UL" STANDARD MARK.
13. ALL NON-CURRENT CARRYING METALLIC PARTS, CABINETS AND EQUIPMENT FRAMES SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE GROUNDING REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
14. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

A. WALL SWITCHES	1400 MM	AFF TO CENTER OF DEVICE
B. WALL OUTLETS	300 MM	AFF TO CENTER OF DEVICE
C. COUNTERTOP OUTLETS	150 MM	TOP OF COUNTER TO CENTER OF DEVICE
D. CONTROL CABINETS	1500 MM	AFF TO TOP OF ENCLOSURE (VERTICAL)
E. MANUAL STATION	1400 MM	AFF TO CENTER OF DEVICE
F. BELL	200 MM	BELOW BEAM OR FINISHED CEILING
G. EMERGENCY LIGHT	300 MM	BELOW BEAM OR FINISHED CEILING
H. EXIT LIGHT	150 MM	ABOVE DOOR JAMB

LEGEND :

- Sa — SINGLE POLE SWITCH
- Sab — TWO - SINGLE POLE SWITCH
- Sabc — THREE - SINGLE POLE SWITCH
- S3abc — THREE WAY SWITCH
- 2S3abc — TWO - THREE WAY SWITCH
- 3S3abc — THREE - THREE WAY SWITCH
- 6 INCH DIAMETER PINLIGHT (15 WATTS) LAMP RECESSED TYPE SELF BALLASTED BULBS
- 3-18W FLUORESCENT LAMP ON RECESSED MIRRORIZED LUMINAIRE WITH HPF ELECTRONIC BALLAST AND LOUVERS (600mm X 600mm)
- 2-36W RECESSED MOUNTED MIRRORIZED LUMINAIRE DAYLIGHT AND LOUVERS, SLIM TYPE
- EMERGENCY LIGHT
- SPEAKER
- CIRCUIT HOMERUN
- SD — SMOKE DETECTOR
- HD — HEAT DETECTOR
- HEAT DETECTOR
- B — FIRE ALARM BELL
- M — FIRE ALARM MANUAL STATION
- WALL EXIT LIGHT
- DIRECTIONAL HANGING EXIT LIGHT
- BUZZER
- PB — PULL BOX
- MH — MANHOLE
- FACP — FIRE ALARM CONTROL PANEL
- RACEWAYS CONCEALED IN SLAB
- RACEWAYS CONCEALED IN SLAB
- GROUND (EARTH)
- TELEPHONE OUTLET
- LOCAL AREA NETWORK
- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE
- SPECIAL PURPOSE CONVENIENCE OUTLET, GROUNDING TYPE
- RANGE CONVENIENCE OUTLET, GROUNDING TYPE
- AIR CONDITIONING UNIT OUTLET
- SERVICE ENTRANCE, POWER
- M — KILOWATT-HOUR METER
- PANELBOARD
- LAN NETWORK SWITCH PORT
- U — UP - RISER
- D — DOWN - RISER
- MTS — MANUAL TRANSFER SWITCH
- MDP — MAIN DISTRIBUTION PANELBOARD
- MEP — MAIN EMERGENCY PANELBOARD
- MNP — MAIN NORMAL PANELBOARD



MASTER SITE DEVELOPMENT PLAN

SCALE : 1:1000METERS

	PREPARED BY	PROFFESIONAL ELECTRICAL ENGINEER	PROJECT	SHEET CONTENTS	CHECKED	CONCURRED:	RECOMMENDING APPROVAL:	APPROVED	SHEET NO.
Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	JEFFREY M. GOH ELECTRICAL ENGINEER III PRC REG. No. 0017341 Validity : 01/08/2021 PTR No. Date : Place : TIN :	PRC REG. No. Validity : PTR No. Date : Place : TIN :	PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	GENERAL NOTES MASTER SITE DEVELOPMENT PLAN	MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity : PICE No. : O.R. No. : Date : PTR No. : Date : Place : TIN :	PORTIA G. ALIPOSA, MD, DPAFP OIC-TRC CHIEF	MINERVA P. MOLON, MD, MPH, FPPA, CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	E1 CADD by : Checked by: DATE :

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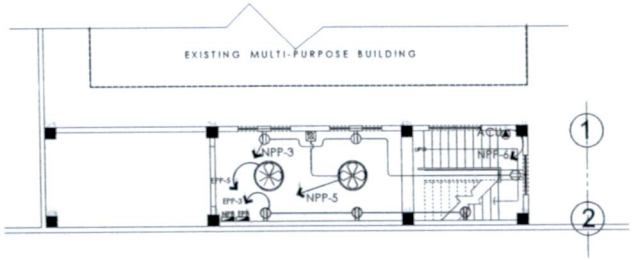
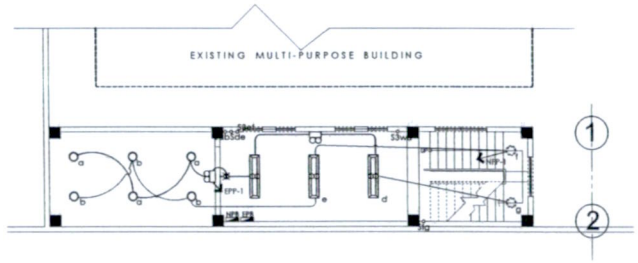


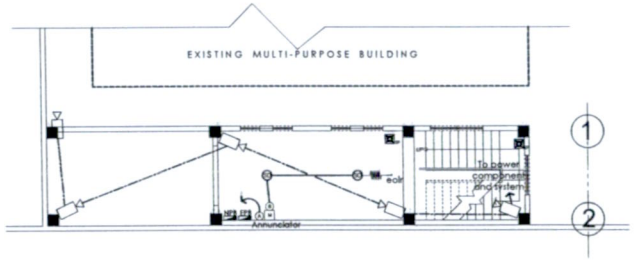
GROUND FLOOR POWER LAYOUT

SCALE : **1:80METERS**



GROUND FLOOR LIGHTING LAYOUT

SCALE : **1:80METERS**



GROUND FLOOR AUXILIARY LAYOUT

SCALE : **1:80METERS**

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	PREPARED BY JEFFREY M. GOH ELECTRICAL ENGINEER III PRC REG. No. 0017341 Validity : 01/08/2021 PTR No. Date Place : TIN :	PROFFESIONAL ELECTRICAL ENGINEER PRC REG. No. Validity : PTR No. Date Place : TIN :	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.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER, OKLAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS GROUND FLOOR POWER LAYOUT GROUND FLOOR LIGHTING LAYOUT GROUND FLOOR AUXILIARY LAYOUT	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity : PICE No. O.R. No. Date : PTR No. Date : Place : TIN :	CONCURRED: PORTIA G. ALIPOSA, MD, DPAFP OIC-TRC CHIEF	RECOMMENDING APPROVAL: MINERVA P. MOLON, MD, MPH, FPPA, CESO III DIRECTOR IV DOH-RO VIII	APPROVED: ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	SHEET NO. E2 CADD by : Checked by: DATE :

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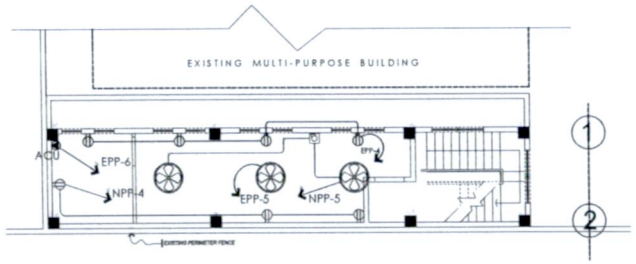
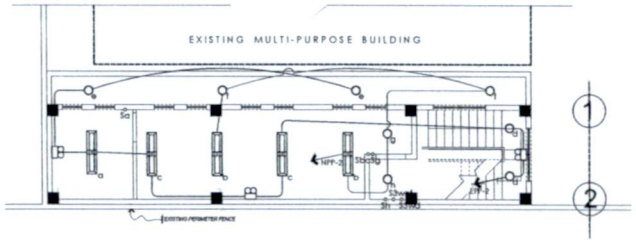


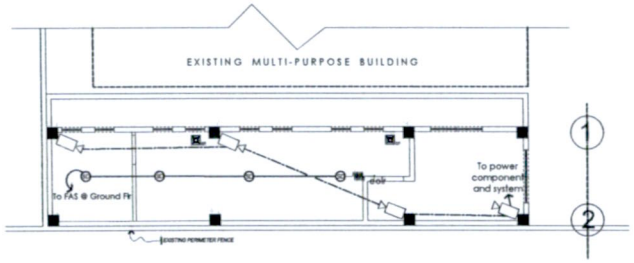
SECOND FLOOR POWER LAYOUT

SCALE : 1:80METERS



SECOND FLOOR LIGHTING LAYOUT

SCALE : 1:80METERS



SECOND FLOOR AUXILIARY LAYOUT

SCALE : 1:80METERS

Republic of the Philippines DEPARTMENT OF HEALTH DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	PREPARED BY JEFFREY M. GOH ELECTRICAL ENGINEER III PRC REG. No. 0017341 Validity : 01/08/2021 PTR No. Date : Place : TIN :	PROFFESIONAL ELECTRICAL ENGINEER PRC REG. No. Validity : PTR No.: Date : Place : TIN :	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 reproduce 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.	PROJECT PROPOSED TWO-STOREY SUPPLY WAREHOUSE LOCATION DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte	SHEET CONTENTS SECOND FLOOR POWER LAYOUT SECOND FLOOR LIGHTING LAYOUT SECOND FLOOR AUXILIARY LAYOUT	CHECKED MAXIMO A. ADAN, JR., MCM ENGINEER V PRC REG. No. Validity PICE No. O.R. No. Date PTR No. Date Place : TIN :	CONCURRED: PORTIA G. ALIPOSA, MD, DPAFP OIC-TRC CHIEF	RECOMMENDING APPROVAL: MINERVA P. MOLON, MD, MPH, FPPA, CESO III DIRECTOR IV DOH-RO VIII	APPROVED ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	SHEET NO. E3 CADD by : Checked by: DATE :

NORMAL PANEL BOARD

DESIGNATION: NPB
LOCATION: SEE PLAN
MOUNTING: FLUSH MOUNTED

CKT. NO.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS.	CIRCUIT PROTECTION			SIZE OF WIRE AND CONDUIT
					AT	AF	P	
1	LIGHTING OUTLET	152	230	.66	15	50	2	2 - 3.5mm^2 THHN Stranded wire in 20mm PVC
2	LIGHTING OUTLET	232	230	.930	15	50	2	2 - 3.5mm^2 THHN Stranded wire in 20mm PVC
3	CONVENIENCE OUTLET	540	230	2.35	20	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 2.0mm^2 THHN Stranded wire in 20mm PVC
4	CONVENIENCE OUTLET	540	230	2.35	20	50	2	3 - 3.5mm^2 THHN Stranded wire in 20mm PVC
5	CEILING AND EXHAUST FANS	1,540	230	6.7	20	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
6	ACU (1 HP)	944	230	4.10	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
7	SPARE	1,500	230	6.52	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
8	SPARE	1,500	230	6.52	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
TOTAL		6,948	230	30.13	60	100	2	2 - 14mm^2 THHN Stranded wire in 32mm PVC 1 - 5.5mm^2 TW Stranded wire in 20mm PVC

COMPUTATION:

$$= \frac{1,464}{230} + \frac{5,484}{230} + (0.25 \times 6.52)$$

$$= 31.84 \text{ AMP}$$

SIZE OF WIRE : USE 2- 14.0mm^2 THHN STRANDED Cu. WIRE IN 32 MMØ PVC,
: USE 1- 5.5mm^2 T STRANDED Cu. WIRE IN 32 MMØ PVC,
MAIN PROTECTION : USE 60 AT, 100 AF, 2P, 230V, 25 KAIC
BOLT-ON, INDUSTRIAL TYPE

EMERGENCY PANEL BOARD

DESIGNATION: EPB
LOCATION: SEE PLAN
MOUNTING: FLUSH MOUNTED

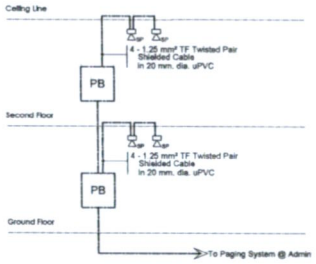
CKT. NO.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS.	CIRCUIT PROTECTION			SIZE OF WIRE AND CONDUIT
					AT	AF	P	
1	LIGHTING OUTLET	247	230	1.074	15	50	2	2 - 3.5mm^2 THHN Stranded wire in 20mm PVC
2	LIGHTING OUTLET	327	230	1.42	15	50	2	2 - 3.5mm^2 THHN Stranded wire in 20mm PVC
3	CONVENIENCE OUTLET	540	230	2.35	20	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 2.0mm^2 THHN Stranded wire in 20mm PVC
4	CONVENIENCE OUTLET	720	230	3.13	20	50	2	3 - 3.5mm^2 THHN Stranded wire in 20mm PVC
5	CEILING FANS	360	230	1.56	20	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
6	ACU (1.5 HP)	1252	230	5.44	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
7	SPARE	1,500	230	6.52	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
8	SPARE	1,500	230	6.52	30	50	2	2 - 5.5mm^2 THHN Stranded wire in 20mm PVC 1 - 3.5mm^2 THHN Stranded wire in 20mm PVC
TOTAL		6,446	230	28.026	60	100	2	2 - 14mm^2 THHN Stranded wire in 32mm PVC 1 - 5.5mm^2 TW Stranded wire in 20mm PVC

COMPUTATION:

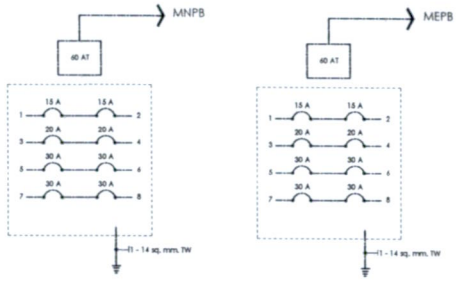
$$= \frac{1,834}{230} + \frac{4,612}{230} + (0.25 \times 6.52)$$

$$= 29.656 \text{ AMP}$$

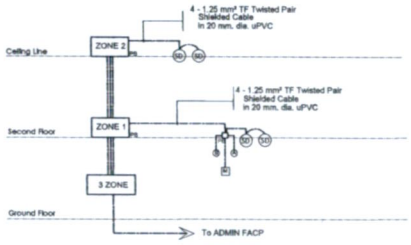
SIZE OF WIRE : USE 2- 14.0mm^2 THHN STRANDED Cu. WIRE IN 32 MMØ PVC,
: USE 1- 5.5mm^2 T STRANDED Cu. WIRE IN 32 MMØ PVC,
MAIN PROTECTION : USE 60 AT, 100 AF, 2P, 230V, 25 KAIC
BOLT-ON, INDUSTRIAL TYPE MCCB



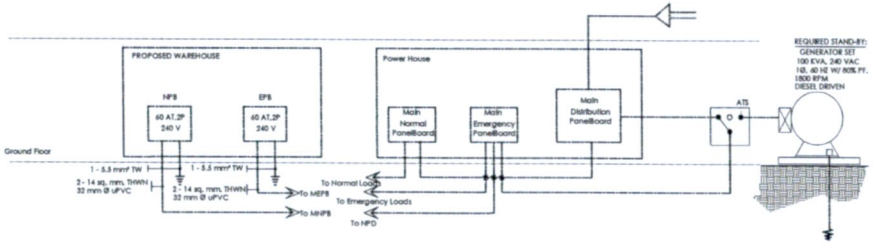
PAGING SYSTEM DIAGRAM
NTS



PANEL BOARD DIAGRAM
NTS



FIRE DETECTION AND ALARM SYSTEM RISER DIAGRAM
NTS



POWER RISER DIAGRAM
NTS

Republic of the Philippines
DEPARTMENT OF HEALTH

DANGEROUS DRUG ABUSE PREVENTION AND TREATMENT PROGRAM

Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY	PROFFESIONAL ELECTRICAL ENGINEER
JEFFREY M. GOH ELECTRICAL ENGINEER III	
PRC REG. No. 0017341 Validity : 01/08/2021	PRC REG. No. Validity :
PTR No.: Date :	PTR No.: Date:
Place : TIN	Place : TIN

Drawings and specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property of the Architect or Engineer, 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.

PROJECT: PROPOSED TWO-STOREY SUPPLY WAREHOUSE

LOCATION: DEPARTMENT OF HEALTH TREATMENT & REHABILITATION CENTER - DULAG Brgy. Highway, Dulag, Leyte

SHEET CONTENTS:
SCHEDULE OF LOADS
PAGING SYSTEM DIAGRAM
FIRE DETECTION AND ALARM SYSTEM RISER DIAGRAM
POWER RISER DIAGRAM
PANEL BOARD DIAGRAM

CHECKED	CONCURRED:	RECOMMENDING APPROVAL:	APPROVED	SHEET NO.
MAXIMO A. ADAN, JR., MCM ENGINEER V	PORTIA G. ALIPOSA, MD, DPAFP OIC-TRC CHIEF	MINERVA P. MOLON, MD, MPH, FPPA, CESO III DIRECTOR IV DOH-RO VIII	ARCH. MA. REBECCA PEÑAFIEL, CESO IV DIRECTOR III, HFDB	E4
PRC REG. No. Validity :				CADD by :
PCE No. O.R. No. Date :				Checked by:
PTR No.: Date :				DATE :
Place : TIN				

Section VIII. Bill of Quantities

Republic of the Philippines

DEPARTMENT OF HEALTH

TREATMENT AND REHABILITATION CENTER - DULAG

Brgy. Highway, Dulag, Leyte

Name of Project: CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE
Location: Treatment and Rehabilitation Center, Brgy. Highway, Dulag, Leyte

BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
I	GENERAL REQUIREMENTS				
1	Mobilization / Demobilization	1.00	lot		
2	Project Signboard	5.76	sq.m.		
3	Permits, Licenses and Material Testing	1.00	lot		
II	SITEWORKS				
1	Excavation	45.90	cu.m.		
2	Gravel Bedding	7.46	cu.m.		
3	Backfill and Compaction	51.95	cu.m.		
III	MASONRY WORKS	245.56	sq. m.		
IV	REINFORCED CONCRETE WORKS	51.85	cu.m.		
V	FORMWORKS AND SCAFFOLDINGS	258.36	sq.m.		
VI	ROOFING AND ROOF FRAMING WORKS				
1	Roof Framing	661.44	kg		
2	Roofing System	50.54	sq. m.		
VII	CEILING WORKS	84.97	sq. m.		
VIII	DRY WALL PARTITION	5.10	sq. m.		
IX	DOORS AND WINDOWS	21.00	sets		
X	ARCHITECTURAL FINISHES				
1	Tile Works	69.35	sq.m.		
2	Steel Works	7.20	ln.m.		
XI	METAL WORKS	4.00	sets		
XII	CATCH BASIN	4.00	sets		
XIII	PLUMBING WORKS	6.00	fixtures		
XIV	PAINTING WORKS	489.48	sq.m.		
XV	ELECTRICAL WORKS				
1	Electrical System	62.00	outlets		
2	Speaker Sytem	4.00	outlets		
3	Fire Detection and Alarm Systems	6.00	outlets		

4	**ACU System**	**1.00**	**outlet**		

Submitted by:

Name of AMO/ Authorized Representative

Date

Position

Name of Construction Firm

Section IX. Bidding Forms

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"Annex A"

Bid Form

Date: _____
Invitation to Bid No: PB 19-232-2

To: PROCUREMENT SERVICE
Bids and Awards Committee II
2nd Floor, PS Complex, RR Road
Cristobal St., Paco, Manila

We, the undersigned, declare that:

(a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract *Construction of Two Storey Supply Warehouse.*

(b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

Qty	Item / Description	Total Price
1 Lot	**CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR DOH-TRC**	**P**
	Total Lot Bid Price:	**P**

TOTAL LOT BID PRICE IN WORDS:

_____

(c) Our Bid shall be valid for a period of *[insert number]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(d) 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;

(e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: *[insert information]*;

(f) 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;

(g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;

(h) 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

(i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

(j) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the *[Name of Project]* of the *[Name of the Procuring Entity]*.

(k) 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: _____
In the capacity of: _____
Signed: _____
Duly authorized to sign the Bid for and on behalf of: _____
Date: _____

"Annex B"

Form of Contract Agreement

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *Procurement Service RR Road, Cristobal Street, Paco, Manila* (hereinafter called the"Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[insert the amount in specified currency in numbers and words]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents shall be attached, deemed to form, and be read and construed as integral part of this Agreement, to wit:

   (a) General and Special Conditions of Contract;

   (b) Drawings/Plans;

   (c) Specifications;

   (d) Invitation to Bid;

   (e) Instructions to Bidders;

   (f) Bid Data Sheet;

   (g) Addenda and/or Supplemental/Bid Bulletins, if any;

   (h) Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

   (i) Eligibility requirements, documents and/or statements;

   (j) Performance Security;

   (k) Notice of Award of Contract and the Bidder's conforme thereto;

   (l) Other contract documents that may be required by existing laws and/or the Entity.

3. In consideration of the payments to be made by the Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Entity to execute and complete the Works and remedy any defects therein in conformity with the provisions of this Contract in all respects.

4. The Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, sealed, delivered by _____the _____ (for the Entity)

Signed, sealed, delivered by _____the _____(for the Contractor).

Binding Signature of Procuring Entity

_____

Binding Signature of Contractor

_____

[Addendum showing the corrections, if any, made during the Bid evaluation should be attached with this agreement]

"Annex C"

Omnibus Sworn Statement

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] [insert "as shown in the attached duly notarized Special Power of Attorney" for the authorized representative]*;

   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 contractfor *[Name of the Project]* of the *[Name of the Procuring Entity]*, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, 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;

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 following responsibilities as a Bidder:

   a) Carefully examine all of the Bidding Documents;

   b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

   c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

   d) Inquire or secure 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. *[Name of Bidder] hereby assigns the following contact number/s and e-mail address/es as the official telephone/fax number and contact reference of the company where the PS BAC and PS notices may be transmitted.*

    Telephone No/s.: _____
    Fax No/s.: _____
    E-mail Add/s.: _____
    Mobile No.: _____

It is understood that notices/s transmitted in any of the above-stated telephone/fax numbers and/or e-mail address/es are deemed received as of its transmittal and the reckoning period for the reglementary periods stated in the bidding documents and the revised Implementing Rules and Regulations of Republic Act No. 9184 shall commence from receipt thereof.

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

_____
Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s exhibited to me his/her [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

Witness my hand and seal this ___ day of [month] [year].

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. _____ *[date issued], [place issued]*
IBP No. _____ *[date issued], [place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of. _____

Note:

"Sec. 12. Competent Evidence of Identity – The phrase "competent evidence of identity" refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of

Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;

The Board Resolution or Secretary's Certificate referring to the said Board Resolution designating the bidder's authorized representative and signatory need not specifically indicate the particular project where such authority is given provided that the said authority covers activities by PS.

"Annex D"

Bid-Securing Declaration
(REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.
x----------x

Invitation to Bid: ***Public Bidding No. 19-232-2***

CONSTRUCTION OF TWO STOREY SUPPLY WAREHOUSE FOR THE DEPARTMENT OF HEALTH-TREATMENT AND REHABILITATION CENTER (DOH-TRC)- DULAG, LEYTE

To: **PROCUREMENT SERVICE**
Bids and Awards Committee II
2nd Floor, PS Complex, RR Road
Cristobal St., Paco, Manila

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:

   a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;

   b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;

   c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]

Affiant

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s exhibited to me his/her [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

Witness my hand and seal this ___ day of [month] [year].

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorney's No. _____
PTR No. _____ [date issued], [place issued]
IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____.

**The identification card shall be at least one of those acceptable proofs of identity as identified under the provisions of the 2004 Rules on Notarial Practice.*

> *"Sec. 12. Competent Evidence of Identity – The phrase "competent evidence of identity" refers to the identification of an individual based on:*
>
> > At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;

LIST OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT **"Annex E"**

Business Name : _____

Business Address : _____

	Project Engineer (Civil Engineer)	Electrical Engineer	Safety Officer	Foreman
1. Name				
2. Address				
3. Date of Birth				
4. Employed Since				
5. Previous Employment				
6. Education				
7. PRC License/ Accreditation from DOLE-OHSC *(for the Health and Safety Officer)*				
8. Years of Related Experience in Proposed Position				

Note: This List must be supported by individual resumes the following documents:

1. **Individual resumes to show proof of the following:**
   a. **that the proposed personnel meets the required relative experience**
   b. **list of projects handled with the corresponding position and its inclusive years of experience (e.g. Construction of Drainage System, Project Manager, 2012-2017)**
2. **Photocopy of PRC Licenses/DOLE-OHSC**

Submitted by : _____

(Printed Name & Signature of Authorized Representative)

Designation : _____

Date : _____

"ANNEX F"

List Of Equipment, Owned Or Leased And/Or Under Purchase Agreement, Pledged To The Proposed Contract

Business Name : _____
Business Address : _____

Description	Model/Year	Capacity/Performance/Size	Plate No.	Motor No./ Body No.	Location	Condition	Proof of Ownership/ Lessor/Vendor
A. Owned							
i.							
ii.							
iii.							
iv.							
v.							
B. Leased							
i.							
ii.							
iii.							
iv.							
v.							
C. Under Purchase Agreement							
i.							
ii.							
iii.							
iv.							
v.							

Note: This List must be supported by proof of ownership, lease and/or purchase agreement. For lease and purchase agreement, proof of ownership from the lessor or certification of availability of equipment from the vendor for the duration of the project.

Submitted by : _____

(Printed Name & Signature of Authorized Representative)

Designation : _____ Date : _____

"Annex G"
Statement Of Single Largest Completed Contract Similar To The Contract To Be Bid

(For this purpose, similar contracts shall refer to General Building Construction with a contract amount of at least One Million Four Hundred Forty Thousand Pesos (Php1,440,000.00)).

Business Name : _____
Business Address : _____

Name of Contract	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Amount at Award b. Amount at Completion	a. Date Awarded b. Date Completed
			Description	%		
Government						
Private						

Note: This statement shall be supported by:

1. Any of the following (Notice of Award/ Contract /Notice to Proceed); and
2. Project Owner's Certificate of Final Acceptance issued by the Owner other than the Contractor or the Constructors Performance Evaluation System (CPES) Final Rating (minimum Satisfactory Rating).

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

"Annex H"

Statement Of All Ongoing Government & Private Construction Contracts Including Contracts Awarded But Not Yet Started

Business Name : _____
Business Address : _____

Name of Contract/Location Project Cost	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment		Value of Outstanding Works
			Description	%		Planned	Actual	
Government								
Private								
							Total Cost:	

Note: This statement shall be supported by:

1. State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:

   The day before the deadline of submission of bids.

2. If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.

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

(REPUBLIC OF THE PHILIPPINES) **"ANNEX I"**
CITY OF _____) S.S.
x----------x

Affidavit Of Site Inspection

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. That I am the [Position of the Authorized Representative] of the [Name of Bidder] with office at [Address of the Bidder]

2. That I have inspected the site for [Name of Contract/Project]. Located at [Location of the Contract/Project] on [Date of Inspection].

3. That I am making this statement as part of the requirement for the Technical Proposal of the [Name of Bidder] for the [Name of Contract/Project] of the Procurement Service (PS).

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

_____
Affiant

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s exhibited to me his/her [insert type of government identification card used*], with his/her photograph and signature appearing thereon, with no. _____ issued on _____ at _____.

_____
(Notary Public)

Until _____
PTR No. _____
Date _____
Place _____
TIN _____
IBP _____

Doc. No. ;
Page No. ;
Book No. ;
Series of 20__.

Statement Of Availability Of Key Personnel And Equipment **"Annex J"**

[Date of Issuance]

Procurement Service- Department of Budget and Management
RR Road, Cristobal Street
Paco, Manila

Attention: The Chairperson
PS Bids and Awards Committee II

Dear _____:

In compliance with the requirements of the DBM-PS Bids and Awards Committee for the bidding of the *[Name of the Project]* ("the Project"), we certify that *[Name of the Bidder]* has in its employ key personnel, such as ***Registered Civil Engineer, Registered Electrical Engineer, Safety Officer and Construction Foreman*** who will be engaged for the construction of the said Project.

Further, we likewise certify the availability of equipment that *[Name of the Bidder]* owns, has under lease, and/or has under purchase agreement that may be used for the Project.

Very truly yours,

[Name of Authorized Representative]
[Position]
[Name of Bidder]

ANNEX "K"

Joint Venture Agreement

KNOW ALL MEN BY THESE PRESENTS:

This **JOINT VENTURE AGREEMENT** (hereinafter referred to as the "Agreement"), entered into this _____ day of _____ 20__ at _____ City, Philippines by and among:

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as "_____";

- and -

_____. a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at _____, represented by its _____, _____, hereinafter referred to as "_____";

- and -

_____ a foreign corporation organized and existing under and by virtue of the laws of _____, represented by its _____, _____, hereinafter referred to as "_____";

(Henceforth collectively referred to as the "**Parties**"

WITNESSETH: That

WHEREAS, the Procurement Service (PS) has recently published an Invitation to Apply for Eligibility and to Bid for the Supply and Delivery of _____ for the _____ ;

WHEREAS, the parties have agreed to pool their resources together to form the "_____ Joint Venture", hereinafter referred to as the Joint Venture, under the laws of the Philippines, for the purpose of participating in the abovementioned procurement of PS-DBM;

NOW, THEREFORE, for and in consideration of the foregoing premises and the covenants hereto set forth, the Parties have agreed as follows:

ARTICLE I
ORGANIZATION OF THE JOINT VENTURE

SECTION 1. Formation – The Parties do hereby agree and bind themselves to establish, form and organize a Joint Venture pursuant to the laws of the Republic of the Philippines, in order for the JV to carry on the purposes and objectives for which it is created;

SECTION 2. Name – The name and style under which the JV shall be conducted is "_____";

SECTION 3. Principal Place of Business – The JV shall maintain its principal place of business at _____ ;

SECTION 4. Preparation and Documentation – The Parties shall secure and/or execute such certifications, documents, deeds and instruments as may be required by the laws of the Republic of the Philippines for the realization of the JV and in compliance with the Project. Further, they shall do all other acts and things requisite for the continuation of the JV pursuant to applicable laws;

SECTION 5. The Joint Venture shall be represented by the _____ in all biddings, related procurement transactions and other official dealings that it shall enter into with the PS-DBM and third parties, such transactions to include, among others, the submission of eligibility documents, bids, registration documents obtaining bonds, performing the principal contract in the event that the contract is awarded in favor of the Joint Venture, receipt of payment for goods delivered, and similar and related activities.

SECTION 6. The period of the Joint Venture shall begin upon execution of this Agreement and shall continue until the complete performance of its contractual obligations to PS-DBM, as described in Article II hereof, or upon its termination for material breach of any term or condition of this Agreement, by service of a written statement in English on the other Party, not less than 90 days prior to the intended date termination

ARTICLE II

PURPOSE

SECTION 1. The primary purpose of the Joint Venture is to participate in the public bidding to be conducted by the DBM-PS Bids and Awards Committee for the supply and delivery of _____ for the _____ .

SECTION 2. If the above-described contract/s is/are awarded to the Joint Venture, the Joint Venture shall undertake the performance thereof to PS-DBM, and such other incidental activities necessary for the completion of its contractual obligations.

ARTICLE III

SOLIDARY LIABILITY OF THE PARTIES

SECTION 1. In the performance of the contract/s that may be awarded to the Joint Venture by the PS-DBM, and all other related activities/obligations, as described in Article II hereof, the Parties bind themselves jointly and solidarily, in the concept of solidarily debtors, subject to the right of reimbursement, as provided in the relevant provisions of the Civil Code of the Philippines.

ARTICLE IV

CONTRIBUTION AND OTHER ARRANGEMENTS

SECTION 1. Contribution – The Parties shall contribute the amount of _____ (Php) to support the financial requirements of the Joint Venture, in the following proportion:

A.	-	P	.00
B.	-	P	.00
TOTAL		P	.00

Additional contributions to the Joint Venture shall be made as may be required for contract implementation. In addition, ____ shall contribute any labor and contract management requirements.

SECTION 2. Profit Sharing – The share of the Parties to the JV from any profit derived or obtained from the implementation and execution of the Project shall be distributed pro rata to each, in accordance with the contribution and resources each has provided to the JV;

SECTION 3. Liquidation and Distributions – Any sum remaining after deducting from the total of all moneys or benefits received for the performance of the contract, all costs incurred by the JV after award of the contract for the Project pursuant to the accounting practices established for the JV, shall be distributed in accordance with the relative balances in the accounts of each Party pursuant to Sec.1 of this Article upon completion, final accounting, termination and liquidation of the JV. In the event of liquidation and termination of JV, and after taking into account the shares of the Parties in all income, gain, deductions, expenses, and losses, should the account of a Party contain a negative balance, such Party shall contribute cash to the JV sufficient to restore the said balance to zero;

SECTION 4. Sharing of Burden of a Net Loss – In case a net loss is incurred, additional contributions shall be made by the Parties in accordance with their respective shares.

ARTICLE V

MISCELLANEOUS PROVISIONS

SECTION 1. The provisions of the Instructions to Bidders, Supplemental Bid Bulletin, and other bidding documents issued by the PS-DBM in relation to the contract described in Article II hereof, shall be deemed incorporated in this Agreement and made an integral part thereof.

SECTION 2. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

SECTION 3. The Parties herein are duly represented by their authorized officers.

SECTION 4. Governing Law - This Agreement shall be governed by and construed according to the laws of the Republic of the Philippines. Venue of any court action arising from this Agreement shall be exclusively laid before the proper court of the _____, Philippines.

IN WITNESS WHEREOF, the parties have set their hands and affixed their signatures on the date and place first above-stated.

_____ _____

_____ _____

_____

_____

Signed in the Presence of:

_____

_____

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.
PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of ___(indicate also the Province in the case of Municipality___, this _____ day of __(month & year)__ personally appeared the following:

Name ID Name, Number and Validity Date

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of _____ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

WITNESS MY HAND AND NOTARIAL SEAL on the place and on the date first above written.

NAME OF NOTARY PUBLIC
Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued], [place issued]*
IBP No. __, *[date issued], [place issued]*

Doc. No. ___
Page No. ___
Book No. ___
Series of ____.

Note:

"Sec. 12. Competent Evidence of Identity – The phrase "competent evidence of identity" refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;

ANNEX "L"

Supplier's Letterhead

_____

Date

_____

Chairman
DBM-PS Bids and Awards Committee ____
Paco, Manila

Dear Sir:

This has reference to Public Bidding No. ____19-232-2_____ for _____(Name of Project) ._____(Name of Company)_____ respectfully requests for the following:

( ) Withdraw of Bid Submissions
( ) Refund of Bid Security
(Attached is a photocopy of the Procurement Service Official Receipt)
( ) Cancellation of Credit Line Certificate

It is understood that _____waives its right to file any motion for reconsideration and/pr protest in connection with the above-cited Public Bidding Project.

Thank you.

Very truly yours,

_____

Authorized Signatory for the Company

L

ANNEX "M"

Form of Performance Security (Bank Guarantee)

To : Procurement Service
PS Complex, Cristobal St.,
Paco, Manila

WHEREAS, _____ *(Name and Address of Supplier)*_____ (hereinafter called "the Supplier") has undertaken, in pursuance of Purchase Order No. _____ dated _____ to execute *(Name of Contract and Brief Description)* (hereinafter called "the Contract");

AND WHEREAS, it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS, we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE, we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of *[Amount of Guarantee]* proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[Amount of Guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of issue of the Defects of Liability Certificate.

SIGNATURE AND SEAL OF THE GUARANTOR _____

NAME OF BANK _____

ADDRESS _____

DATE _____

Annex "N"

Name of the Procuring Entity : PROCUREMENT SERVICE
Project Reference Number : 19-232-2
Name of the Project : Construction of Two Storey Warehouse

KEY PERSONNEL
(FORMAT OF CURRICULUM VITAE)

Give the detailed information of the following personnel who are scheduled to be assigned as full-time field staff for the project. Fill up a form for each person.

1. Name : _____
2. Nationality : _____
3. Education and Degrees : _____
4. Proposed Position : _____
5. Length of Service with the Firm : _____year(s) from ___(months) ___(years) To ___(months) ___(years)
6. Years of Related Experience for the proposed position : _____
7. List of Projects Handled : *(Use additional sheet/s if necessary)*

   Name of Project : _____
   Name of Owner : _____
   Type of Project : _____
   Position : _____
   Period of Assignment : _____

In the event that ___*(Name of the Bidder)*___ is awarded the contract for ___*(Name of the Project)*___ I, firmly commit to assume the post of ___*Designation)*___.

_____
Signature of Key Personnel

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Republic of the Philippines

gpdb

Government Procurement Policy Board