

Republic of the Philippines
Office of the President



BIDDING DOCUMENTS

CONSTRUCTION OF SEWAGE TREATMENT PLANT, ACCESS ROAD, AND FREEDOM PARK IN BONIFACIO CAPITAL DISTRICT, TAGUIG CITY

**Fifth Edition
February 2021**

UNCONTROLLED WHEN PRINTED OR EMAILED

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UNCONTROLLED WHEN PRINTED OR EMAILED

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

Section I. Invitation to Bid

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Invitation to Bid

Construction of Sewage Treatment Plant, Access Road, and Freedom Park in Bonifacio Capital District, Taguig City

1. The Bases Conversion and Development Authority (BCDA), through the 2020 and 2021 General Appropriations Act (GAA) Funds, intends to apply the sum of **One Hundred Fifty One Million One Hundred Sixty Thousand and 00/100 Pesos (Php 151,160,000.00)**, inclusive of all applicable taxes and fees, being the Approved Budget for the Contract (ABC) to payments under the contract for the **Construction of Sewage Treatment Plant, Access Road, and Freedom Park in Bonifacio Capital District, Taguig City**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. BCDA now invites bids for the **Construction of Sewage Treatment Plant, Access Road, and Freedom Park in Bonifacio Capital District, Taguig City**. Completion of the Works is required within **Three Hundred Sixty (360) Calendar Days**. Prospective bidders must have completed a similar project as defined under the Bid Data Sheet, specifically No. 5.4 thereof. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 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. Prospective bidders must have at least a Category A and License Classification Medium B either for General Engineering-1, General Building-2, or General Building-3 from the Philippine Contractors Accreditation Board (PCAB). The PCAB license must be valid and effective at the time of submission of the bid.
5. Interested bidders may obtain further information from BCDA and inspect the Bidding Documents at the address given below from **01 February 2021 to 02 March 2021**, except Saturdays, Sundays and holidays, between 8:00 AM and 5:00 PM and on **03 March 2021 from 8:00 AM to 12:00 PM**.
6. A complete set of Bidding Documents may be purchased by interested bidders from the address below and upon payment of a nonrefundable fee in the amount of **Fifty Thousand Pesos (Php 50,000.00)**.

It may also be downloaded from the Philippine Government Electronic Procurement System (PhilGEPS) and the BCDA websites provided that payment of the non-refundable fee as above for the Bid Documents shall be made prior to submission of bids.

7. BCDA will hold a Pre-Bid Conference on **08 February 2021 at 10:00 AM** at the BCDA Corporate Center, 2/F Bonifacio Technology Center, Bonifacio Global City, Taguig City.
8. **Bids must be delivered not later than 12:00 PM on 03 March 2021** at the BCDA Corporate Center, 2/F Bonifacio Technology Center, 31st Street corner 2nd Avenue, Bonifacio Global City, Taguig City. All bids must be accompanied by a bid security in any of the acceptable forms stated in ITB Clause 18.

Late bids shall not be accepted.

Bids will be opened in the presence of the bidders' representatives who choose to attend on **03 March 2021 at 1:00 PM** at the address given above.

9. BCDA 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, without thereby incurring any liability to the affected bidder or bidders.
10. The Bidder, by the act of submitting its bid, shall be deemed to have acknowledged that it has carefully reviewed and understood all the terms and conditions contained in the Bidding Documents and that all its inquiries and/or clarifications shall be raised during the Pre-bid Conference and/or within the period prescribed to submit the request for clarifications based on the timetable of bidding activities for the Project.
11. For further information, please refer to:

Melinda M. Docallos

Head Secretariat, BAC for Infrastructure

Tel: 8575-1789

Fax: 816-0996

Email: mmdocallos@bcda.gov.ph

Website: www.bcda.gov.ph

Date of Posting: 01 February 2021

AILEEN ANUNCIACION R. ZOSA

Chairperson

Bids and Awards Committee (BAC) for
Infrastructure

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

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;

(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 seventy five percent (75%) of the interest belongs to citizens of the Philippines;
- (c) Corporations duly organized under the laws of the Philippines, and of which at least seventy five percent (75%) 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 Letter of Instructions No. 630, Filipino ownership or interest of the joint venture concerned shall be at least seventy five percent (75%): Provided, further, that joint ventures in which Filipino ownership or interest is less than seventy five percent (75%) 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 seventy five percent (75%) 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.

- 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 9184 and 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. Subcontract

- 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 Clause 23.

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, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with Section 37.1.4 of the IRR;

(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. Unless otherwise stated in the **BDS**, 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)
<p>(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</p> <p>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.</p>	
<p>(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.</p> <p><i>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.</i></p>	Two percent (2%)
<p>(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; and/or</p>	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 days from 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** Clause 31;
 - (ii) fails to furnish performance security in accordance with **ITB** Clause 32.

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 20.1;
 - (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)(ii) 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 12 and 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:

- (c) 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;
- (d) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or
- (e) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOP as 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:

- (f) No bids are received;
- (g) All prospective Bidders are declared ineligible;
- (h) All bids fail to comply with all the bid requirements, fail post-qualification; or

- (i) 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) Submission of the following documents within ten (10) calendar days from receipt of the Notice of Award:
 - (i) In the case of procurement by a Philippine Foreign Service Office or Post, the PhilGEPS Registration Number of the winning foreign Bidder; or
 - (ii) 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	Ten percent (10%)

<p>Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</p>	
<p>(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.</p> <p>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.</p>	
<p>(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.</p>	<p>Thirty percent (30%)</p>

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.

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

Section III. Bid Data Sheet

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Bid Data Sheet

ITB Clause	
1.1	<p>The Procuring Entity is the Bases Conversion and Development Authority (BCDA).</p> <p>The name of the Contract is Construction of Sewage Treatment Plant, Access Road, and Freedom Park in Bonifacio Capital District, Taguig City.</p> <p>The contract has no identification number.</p>
2	<p>The Funding Source is:</p> <p>The Government of the Philippines (GoP) through the General Appropriations Act (GAA) of FY 2020 & FY2021 in the amount of One Hundred Fifty One Million One Hundred Sixty Thousand and 00/100 Pesos (Php 151,160,000.00), inclusive of all applicable taxes and fees.</p> <p>The name of the Project is: Construction of Sewage Treatment Plant, Access Road, and Freedom Park in Bonifacio Capital District, Taguig City</p>
3.1	No further instructions.
5.1	<p>Prospective bidders must have at least a license Category A and License Classification Medium B either for General Engineering-1, General Building-2, or General Building-3 from the Philippine Contractors Accreditation Board (PCAB). The PCAB license must be valid and effective at the time of submission of the bid.</p> <p>In case of Joint Venture (JV), submittal of the required PCAB License category "A" "Medium B" by any one (1) member of the JV constitutes compliance.</p> <p>The Special PCAB License of the JV is required for submittal in the bidding. To secure the required Special PCAB License, it is required that:</p> <p>1) Partnerships consisting of constructors must apply to PCAB as a Joint Venture, wherein all constructor partners are required to have or apply for a Regular PCAB License or in case of a foreign partner, a "Special PCAB License for Foreign Constructors".</p> <p>2) Partnerships consisting of constructors and non-constructors (e.g. financier or equipment supplier) must apply as a Consortium, wherein a PCAB License of one (1) partner constitutes compliance.</p>

	<p>Under IRR of RA 4566, the following are defined:</p> <p>Consortium – means a cooperative arrangement between licensed constructor(s) and non-constructor(s) to jointly perform a single specific undertaking/project with the licensed constructor(s) as managing and operating partner(s) and the others as financier(s) or any such other construction supportive role.</p> <p>Joint Venture – means a cooperative arrangement of licensed constructors/contractors to jointly perform a single specific undertaking/project with each of the partners contributing to the performance.</p> <p>“Constructor” shall have the same meaning as “Contractor”</p>
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4	SLCC shall refer to a single contract of completed project of a combination of the Civil Works and Sewage Treatment Plant with a total contract cost of at least PhP 75,580,000.00 or 50% of the ABC.
5.4(b)	No further instructions.
8.1	The Bidder may subcontract a maximum of fifty percent (50%) of the Works subject to prior written approval of BCDA.
8.2	Subcontractors shall comply with the eligibility criteria specified in ITB Clause 5.1
9.1	BCDA will hold a pre-bid conference for this Project on 08 February 2021 at 10:00 AM at the BCDA Corporate Center, 2/F Bonifacio Technology Center, 31 st Street, corner 2 nd Avenue, Bonifacio Global City, Taguig City.
10.1	<p>Requests for clarification must be addressed to:</p> <p>AILEEN AN. R. ZOSA Chairperson Bids and Awards Committee for Infrastructure Bases Conversion and Development Authority 2/F Bonifacio Technology Center 31st Street, corner 2nd Avenue Bonifacio Global City, Taguig City Tel. No.: 8575-1700</p>
10.4	No further instructions.
12.1	No further instructions.
12.1(a)(iii)	No other acceptable proof of registration is recognized.

12.1(b)(ii.2)

List of Minimum Key Personnel Nominated/To Be Assigned to the Project

No.	Key Personnel	Qualifications/Relevant Experience	Minimum Required
1	Project Manager	<ul style="list-style-type: none"> Must be a licensed Civil Engineer for at least ten (10) years and with at least five (5) years of experience as Project Manager. 	1
2	Project Engineer	<ul style="list-style-type: none"> Must be a licensed Mechanical Engineer for at least Ten (10) years and with at least Five (5) years of experience as Project Engineer. 	1
3	Chemical Engineer	<ul style="list-style-type: none"> Must be a licensed Chemical Engineer for at least five (5) years and with at least three (3) years of experience as Chemical Engineer. 	1
4	Electrical Engineer	<ul style="list-style-type: none"> Must be a licensed Electrical Engineer for at least five (5) years and with at least three (3) years of experience as Electrical Engineer. 	1
5	Sanitary Engineer	<ul style="list-style-type: none"> Must be a licensed Sanitary Engineer for at least five (5) years and with at least three (3) years of experience as Sanitary Engineer. 	1
6	Landscape Architect	<ul style="list-style-type: none"> Must be a licensed Landscape Architect for at least five (5) years and with at least three (3) years of experience as Landscape Architect. 	1
7	Quantity Surveyor	<ul style="list-style-type: none"> Must be a licensed Engineer/Architect for at least five (5) years and with at least three (3) years of experience as Quantity Surveyor. 	1
8	Materials Engineer	<ul style="list-style-type: none"> Must be a DPWH-accredited Materials Engineer II for at least five (5) years and with at least three (3) years of experience as 	1

		Materials Engineer.	
9	Health and Safety Officer	<ul style="list-style-type: none"> Must be a DOLE-accredited Safety Officer for at least five (5) years and with at least three (3) years of experience as DOLE-accredited Health and Safety Officer. 	1

List of contractor's personnel (e.g., Project Manager, Project Engineers, Materials Engineers), to be assigned to the contract to be bid, with their complete qualification and experience data following the format for CVs required under Section IX. Bidding Forms.

The key personnel shall only be nominated to a single position. The winning bidder shall ensure that the above key personnel shall be working full time in this project.

12.1(b)(iii.3)

List of Minimum Equipment Requirement

Item No.	Type of Equipment	Capacity	Minimum Required Units
1	Backhoe	1 cu. m.	2
2	Transit Mixer	6 cu. m.	2
3	Dump Truck	9 cu. m.	2
4	Dozer	105 hp.	1
5	Asphalt Paver Finisher	2.5 m	1
6	Pneumatic Roller	7 tons	1
7	Tandem Roller	10 tons	1

List of contractor's major equipment units, which are

a. if owned, supported by proof of ownership such as but not limited to:

- Official Receipt
- Deed of Sale
- OR/CR
- Sales Invoice showing payment of VAT
- Proforma Invoice supported by a Sales Invoice
- Letter of Credit from bank with attached Purchase Order supported by a Sales Invoice
- Acknowledgement Receipt from Supplier

	<ul style="list-style-type: none"> • Commercial Receipt/Commercial Invoice • Original Invoice with attached Packing List • Bill of Lading • Collection Receipt • Delivery Receipt <p>and certification by the bidder of availability of equipment for the duration of the project ;</p> <p>b. if leased, Lease Agreement between lessor and lessee. Proof of Ownership of the Lessor to be included in the Technical Proposal, and Certification of Availability of Equipment from the equipment lessor for the duration of the project; and,</p> <p>c. if under purchase agreement, supported by agreement to purchase and certification of availability of equipment from the equipment vendor and the bidder for the duration of the project.</p>
13.1	No additional Requirements
13.1(b)	<p>This shall include all of the following documents:</p> <ol style="list-style-type: none"> 1) Bid prices in the Bill of Quantities; 2) 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 3) Cash flow or payment schedule.
13.2	The ABC is One Hundred Fifty One Million One Hundred Sixty Thousand and 00/100 Pesos (Php 151,160,000.00) , inclusive of all applicable taxes and fees. Any bid with a financial component exceeding this amount shall not be accepted.
14.2	No further instructions
15.4	No further instruction.
16.1	The bid prices shall be quoted in Philippine Pesos.
16.3	No further instructions.
17.1	Bids will be valid until One Hundred Twenty (120) calendar days from the date of opening of bids.
18.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> 1. The amount of not less than Three Million Twenty Three Thousand and 00/100 Pesos (Php 3,023,200.00), if bid security is in cash,

	<p>cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>2. The amount of not less than Seven Million Five Hundred Fifty Eight Thousand and 00/100 Pesos (Php 7,558,000.00), if bid security is in Surety Bond.</p>
18.2	The bid security shall be valid until One Hundred Twenty (120) calendar days from the date of opening of bids.
20.3	Each Bidder shall submit one (1) original and one (1) copy of the first and second components of its bid.
21	<p>The address for submission of bids is the BCDA Corporate Center, 2/F Bonifacio Technology Center, 31st Street, corner 2nd Avenue, Bonifacio Global City, Taguig City.</p> <p>The deadline for submission of bids is 03 March 2021 at 12:00 PM.</p> <p>Late bids shall not be accepted.</p>
24.1	<p>The place of bid opening is at the BCDA Corporate Center, 2/F Bonifacio Technology Center, 31st Street, corner 2nd Avenue, Bonifacio Global City, Taguig City.</p> <p>The date and time of bid opening is on 03 March 2021 at 1:00 PM.</p>
24.2	No further instructions.
24.3	No further instructions.
27.3(a)	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	None.
31.4(f)	<p>List of additional contract documents relevant to the Project:</p> <ol style="list-style-type: none"> 1. Construction Schedule and S-Curve; 2. Manpower Schedule; 3. Construction Methods; 4. Equipment Utilization Schedule; 5. Construction Safety and Health Program approved by DOLE;

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***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 total amount of liquidated damages shall not exceed ten percent (10%) of the amount of the contract. The Procuring Entity may 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.
- 41.2. The Procuring Entity's Representative shall check the Contractor's monthly 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 therefor.
- 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.

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

Section V. Special Conditions of Contract

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Special Conditions of Contract

GCC Clause	
1.17	<p>The Intended Completion Date shall be Three Hundred Sixty (360) Calendar Days upon the receipt of the NTP.</p> <p>The construction of the STP shall be prioritized and completed within Two Hundred Forty (240) Calendar Days upon the receipt of the NTP. Testing and commissioning, including process proving shall immediately commence upon issuance of Partial Certificate of Completion from BCDA/ 240 Calendar Days from receipt of the NTP and shall be completed within 360 Calendar Days after receipt of the latter, satisfying dry and wet conditions.</p> <p>Preliminary acceptance and turnover will be issued by BCDA after the contractor pass the process proving of the STP and upon proof of ALL SYSTEMS GO (Fully Functional).</p> <p>Interim O&M shall commence from the issuance of preliminary acceptance and turnover from BCDA. Continuous testing of influent and effluent shall prove warranty.</p>
1.22	<p>The Procuring Entity is the Bases Conversion and Development Authority (BCDA) with business address at the BCDA Corporate Center, 2/F Bonifacio Technology Center, 31st Street, corner 2nd Avenue, Bonifacio Global City, Taguig City.</p>
1.23	<p>The Procuring Entity's Representative is The Project Manager</p>
1.24	<p>The Site is located at Bonifacio Capital District, Taguig City</p>
1.28	<p>The Start Date is projected to be on April 2021.</p>
1.31	<p>The Works consist of the Construction of the Sewage Treatment Plant, Access Road, and Development of Freedom Park.</p> <p>The cost and application of permits, clearances, Environmental Compliance Certificate and other government approvals shall be the responsibility and obligation of the Contractor.</p> <p>The Final Design of the STP as approved by the LLDA, Taguig Local Government, DENR and the relevant approving authorities, if necessary, shall be submitted to and approved by BCDA prior to the execution of Works.</p> <p>The Contractor shall submit to BCDA the As-Built Drawings before the issuance of the Certificate of Completion.</p>
2.2	<p>No further instructions.</p>
5.1	<p>The Procuring Entity shall give possession of all parts of the Site to the Contractor.</p> <p><i>The Project site is currently being utilized as a staging area for the Construction of the New Senate Building and will be available for turnover prior to the issuance of NTP. Likewise, it is currently under the</i></p>

	<i>administration of the Philippine Navy which will be transferred to BCDA through a separate agreement.</i>
6.5	The Contractor shall employ the following Key Personnel : <ol style="list-style-type: none"> 1. Project Manager (1) 2. Project Engineer (1) 3. Chemical Engineer (1) 4. Electrical Engineer (1) 5. Quantity Surveyor (1) 6. Materials Engineer (1) 7. Sanitary Engineer (1) 8. Landscape Architect (1) 9. Health and Safety Officer (1)
7.4(c)	No further instructions.
7.7	No further instructions.
8.1	No further instructions.
10	None.
12.3	No further instructions.
12.5	Fifteen (15) years.
13	If the Contractor is a joint venture, "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 to be advised as needed.
29.1	Dayworks are applicable at the rate shown in the Contractor's original Bid.
31.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within ten (10) days from receipt of Notice of Award.
31.3	The Program of Work shall be updated and shall be submitted to BCDA for approval: <ol style="list-style-type: none"> 1. On the first working day of the week following a Weekly Accomplishment Report indicating a negative slippage; and 2. together with the request for Variation Orders, either in the form of a change order or extra work order, that shall cover any increase or decrease in the original quantities of the Contract. <p>No further instructions.</p>
34.3	The Funding Source is the Government of the Philippines through the General Appropriations Act of FY 2020 & 2021.
39.1	The maximum amount of the advance payment shall be fifteen percent

	(15%) of the Contract Price.																
40.1	<p>Payments shall be made through a modified scheme as shown:</p> <table border="1"> <tr> <td>Advance Payment</td> <td>Max 15% (subject to recoupment)</td> </tr> <tr> <td>1st Payment</td> <td>Shall be 20% actual accomplishment of the Project</td> </tr> <tr> <td>2nd Payment</td> <td>Shall be the next 20 % actual accomplishment corresponding to accumulated 40% actual accomplishment of the Project.</td> </tr> <tr> <td>3rd Payment</td> <td>Shall be the next 20 % actual accomplishment corresponding to accumulated 60% actual accomplishment of the Project</td> </tr> <tr> <td>4th Payment</td> <td>Shall be the next 10 % actual accomplishment corresponding to accumulated 70% actual accomplishment of the Project</td> </tr> <tr> <td>5th Payment</td> <td>Shall be the next 10 % actual accomplishment corresponding to accumulated 80% actual accomplishment of the Project</td> </tr> <tr> <td>6th Payment</td> <td>Shall be the next 10 % actual accomplishment corresponding to accumulated 90% actual accomplishment of the Project</td> </tr> <tr> <td>Final Payment</td> <td>Shall be the next 10 % actual accomplishment corresponding to accumulated 100% actual accomplishment of the Project</td> </tr> </table>	Advance Payment	Max 15% (subject to recoupment)	1 st Payment	Shall be 20% actual accomplishment of the Project	2 nd Payment	Shall be the next 20 % actual accomplishment corresponding to accumulated 40% actual accomplishment of the Project.	3 rd Payment	Shall be the next 20 % actual accomplishment corresponding to accumulated 60% actual accomplishment of the Project	4 th Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 70% actual accomplishment of the Project	5 th Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 80% actual accomplishment of the Project	6 th Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 90% actual accomplishment of the Project	Final Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 100% actual accomplishment of the Project
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6 th Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 90% actual accomplishment of the Project																
Final Payment	Shall be the next 10 % actual accomplishment corresponding to accumulated 100% actual accomplishment of the Project																
51.1	The Operating and Maintenance Manuals, and As-Built Drawings shall be required before the issuance of a Certificate of Completion.																
51.2	The final payment shall be withheld for failing to submit the complete set of “as built” drawings and, operating and maintenance manuals.																

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
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City**

Section VI. Specifications

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ACCESS ROAD AND FREEDOM PARK PERFORMANCE SPECIFICATION

1.0 Performance Specifications And Parameters

The Winning Bidder/Contractor shall provide construction services, which shall meet the following DPWH Standard Specification (Blue Book), National Building Code, Fire Code of the Philippines, and outline specification and parameters in consideration of the future developments of Navy Village, Bonifacio South Pointe, and McKinley West.

1.1 Outline Specification And Parameters

The Winning Bidder/Contractor shall provide the following in addition to the requirements of the DPWH Standard Specifications that will be used and required for the Project:

I. General Requirements

Part A - Facilities for the Engineer

- a. Rental of Site Office Building of at least 50-sqm area, fully air conditioned with conference room, office area, comfort room, and supply of water and power including the corresponding utilities and maintenance fees.
- b. Purchase of Site Furnitures and Equipment , 5-office desks and chairs, 1-conference table and 10-chairs, 2-laptops with licensed AutoCad and Operating Softwares, and 2-smart phones.
- c. Rental of Service Vehicle, 1-pick up (4x2), at least 2021 model, turbo diesel engine with comprehensive insurance and registration documents. Expenses for the required registration, fuel, repair, maintenance, and competent service driver shall be included.
- d. The contractor shall also provide a drone to be used for weekly progress photographs.

Part B - Other General Requirements

- a. Refer to DPWH Standard Specification.
- b. Acquisition of Authority to Construct, Discharge Permit, and Permit to Operate from DENR and Building Permit.
- c. Prepare Environmental Impact Assessment (EIA) and other documentary requirements and facilitate the application until issuance of Environmental Compliance Certificate (ECC).

d. The project should consider gender equality and the satisfaction of women as crucial factors in its success and sustainability. As such, the project shall take into account the following to ensure quality and effectiveness:

- Incorporate gender-specific objectives into the project design;
- Use gender analysis and sex-disaggregated data to develop gender strategies throughout the project;
- Take action/s to empower and involve women through consultation, participation and decision-making; and
- Monitor the gender objective of the project.

II. A Site Development

III. B Access Road

Part C - Earthworks

Refer to the DPWH Standard Specification.

Part D - Subbase and Base Course

Refer to the DPWH Standard Specification.

Part E - Surface Courses

Refer to the DPWH Standard Specification.

The Winning Bidder shall give preference to Asphalt Road Surface.

Part G - Drainage and Slope Protection Structures

Refer to the DPWH Standard Specification.

Part H - Miscellaneous Structures

Refer to the DPWH Standard Specification.

Roadway Lighting System

Refer to the DPWH Standard Specifications and Philippine Electrical Code.

II.C Freedom Park

Part C - Earthworks

Refer to the DPWH Standard Specification.

Part D - Subbase and Base Course

Refer to the DPWH Standard Specification.

Part E - Surface Courses

Refer to the DPWH Standard Specification.

The Winning Bidder shall give preference to Asphalt Road Surface.

Part G - Drainage and Slope Protection Structures

Refer to the DPWH Standard Specification.

Part H - Miscellaneous Structures

Refer to the DPWH Standard Specification.

Electrical Works

Refer to the DPWH Standard Specifications and Philippine Electrical Code.

Landscaping Works

Refer to the DPWH Standard Specifications.

II. D SEWAGE TREATMENT PLANT

PERFORMANCE SPECIFICATION

1.0 Rationale

This specification sets out the detailed scope of works and requirements for the design, construction, installation, testing, commissioning, and bringing into operation the sewage treatment plant for the Bonifacio Capital District located at Fort Bonifacio, Taguig City.

The intent of this Specification is to provide guidance to the Contractor to design, construct, install, test, commission, and bring into operation the Sewage Treatment Plant conceived for the project.

2.0 Assumptions

- 2.1 Only domestic sewage and other organic wastes containing BOD equal or less than 300 mg/l will discharge directly to the proposed STP.
- 2.2 Wastes including pollutants greater than what is specified herein shall be subjected to pre-treatment
- 2.3 Sewage in excess of BOD of 1000 mg/L or more shall be reduced by 95% without exceeding provisions of item 3.4 herewith.

3.0 Design Criteria

3.1 Process

The proposed treatment method shall be a multi-stage biological process incorporating biological nutrient removal (BNR), considering technologies with lower unit energy consumption and reduced sludge production such as Fixed-Bed Biofilm Activated Sludge (FBAS), Moving Bed Biofilm Reactor (MBBR), Membrane Aerated Biofilm Reactor (MABR), or other best practice process to remove nitrogen, phosphorus, and other impurities from the effluent.

3.2 Influent Characteristics

Particular	STP
Average Daily Flow, m ³ /day	1,500
Peak Hour Flow, m ³ /hr	187.5

3.3 Sewage Characteristics

The Pollutant loading from each building or facility will conform to the specified maximum permissible parameters before discharge to the sewerage system

Parameter	Maximum Permissible
BOD	300 mg/L
COD	400 mg/L
TSS	200 mg/L
TKN	35 mg/L
NH ₃	26 mgN/L
Total Phosphorus	8 mgP/L
Fecal Coliform	1x10 ⁷ /100 mL

3.4 Effluent Characteristics

Effluent from the wastewater treatment shall conform with the standards required under existing laws rules and regulations and shall be at least Water Body Class C as specified in the Water Quality Guidelines and General Effluent Standards of 2016 as specified under Administrative Order 2016-08 issued by the Department of Environment and Natural Resources. The key parameters are presented below:

Parameter	Maximum Permissible
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Ammonia	0.5 mg/L
BOD	50 mg/L
Boron	3 mg/L
Chloride	450 mg/L
COD	100 mg/L
Color	150 TCU
Cyanide as Free Cyanide	0.2 mg/L
Fluoride	2 mg/L
Nitrate as NO ₃ -N	14 mg/L
pH	6.0-9.5
Phosphate	1 mg/L
Selenium	0.04 mg/L
Sulfate	550 mg/L
Surfactants (MBAS)	15 mg/L
Temperature Change	3 °C change
TSS	100 mg/L
Oil and Grease	5 mg/L
Dissolved Oxygen (Minimum 5 mg/L)	

The characteristics and the aforementioned parameters are subject to change pursuant to any updates and/or revisions issued by DENR.

3.5 Sewage Treatment Plant Area

The total space allocated for the proposed STP is approximately 3,000 m². Proposed location of the STP is shown in the Site Plan.

3.6 Content of Proposals

All proposals shall include, but not limited to, the following items:

- 3.6.1 Catalogs/brochures showing the Technical data of equipment, such as weights, physical dimensions and performance characteristics.
- 3.6.2 Plant layout showing the arrangement and dimensions of all concrete/steel tanks and equipment mounting.
- 3.6.3 Process flow diagram of Sewage Treatment Plant interrelated with other trades within the residential/commercial complex.

- 3.6.4 Control and instrumentation diagrams of proposed Sewage Treatment Plant.
- 3.6.5 Testing and commissioning procedures, as well as, operation and maintenance manuals for the start-up, operation, and maintenance of STP.
- 3.6.6 Complete list of chemicals to be used in the proposed Sewage Treatment Plant. Chemicals needed for the Sewage Treatment Plant must be available in the local market.
- 3.6.7 A full breakdown of plant operating and maintenance cost table on a monthly basis; assuming that the plant is treating 100%, 75%, 50% and 25% of the design flows, and also expressed as a cost per cubic meter of effluent treated.
- 3.6.8 Equipment parts list indicating the source of supply and recommended spare parts.
- 3.6.9 Details of proposed construction installation and commissioning schedule within the framework of the Owner's schedule as in this document.
- 3.6.10 Company profile showing the Contractor's background and experience including a list of past and present Sewage Treatment Plant projects done in the last five years.
- 3.6.11 Propose future facilities treatment and space requirements within the allocated space to comply with DAO2016-08 Section 11.0 Paragraph 2, No effluent shall cause the quality of the receiving water body to fall below the prescribed WQG in accordance with its Classification.

3.7 Compliance with DENR-EMB

The complete system shall meet the requirement of the Department of Environment and Natural Resources - Environmental Management Bureau (DENR-EMB) on the quality of the effluent and all other requirements. The contractor shall obtain permit to construct and the final permit to operate the Sewage Treatment Plant.

The Contractor must also obtain the discharge permit from DENR-EMB.

3.8 Schedule of Operation

Contractors are advised to consider in their proposal the commissioning, operation and maintenance (from start-up until the full capacity is utilized) starting from the acceptance of the works.

3.9 Design Parameters

1. Odourless
2. Aesthetically pleasing
3. Flood protected

4.0 Sewage Treatment Plant Components

4.1 Pre-treatment: Screening and disposal

Wastewater flows under gravity or is pumped (by others) to the inlet of the WWTP. Screening must be provided to remove rag and other material that has the potential to block the plant's pumps. Screening with a maximum 6mm mesh size in two dimensions is required. An automatic system for cleaning the screen and delivering the screening to a suitable storage container for disposal shall be included. In the event of failure of the automated cleaning system, the screen shall be designed to facilitate manual cleaning. A bypass shall be included to accommodate 100% of the flow. The container for storage of rag shall be provided by the Contractor.

4.2 Grit Removal Facilities

4.2.1 Grit removal shall follow fine screening and storm separation and be sized to handle peak design flow.

4.2.2 The following grit removal systems can be considered for the WWTP.

4.2.3 Process selection is subject to specific site requirements:

- a. Vortex flow separator;
- b. Detritus tanks;
- c. Settling channels; or
- d. Aerated grit basins

4.2.4 The contractor shall provide mechanical grit removal together with grit withdrawal facilities and grit classifier and washer.

- 4.2.5 Each mechanical grit removal unit shall have less than 50mm head loss. The design shall be capable of removing grit from raw unscreened sewage and depositing grit into the grit classifiers.
- 4.2.6 All equipment shall be shipped in one piece, with pre-mounted components and provided with enclosures to prevent odour and vector nuisance. All wetted parts and screen bars shall be SS 316L as a minimum.
- 4.2.7 Liquors from the dewatering compactors shall be returned to the flow by gravity or pumped if necessary. The liquors shall be returned upstream of the screens.
- 4.2.8 The conditioning and cleaning of screened material and grit is undertaken such that no visual fecal matter and that the screenings are in a suitable condition for road transport and ultimate offsite disposal.
- 4.2.9 The Contractor shall provide suitably sized and an appropriate number of skips at least 1 skips per units for coarse screenings, fine screenings and grit chamber to facilitate the collection and transfer of screenings and grit from site. The Contractor shall undertake skip transfer frequently, and dispose waste materials generated daily or as directed by the Employer. The Contractor shall ensure that the management of skips is appropriate to the amount of waste anticipated.
- 4.2.10 The skips as a minimum are required to be covered in order to reduce the potential level of odor generation on site and prevent the collection of water in them.
- 4.2.11 Penstocks shall be provided upstream and downstream of the grit chambers, so that each of them can be isolated during maintenance servicing.

4.3 Fat, Oil and Grease (FOG) Removal System

- 4.3.1 FOG removal is typically combined with grit and screenings removal system.
- 4.3.2 Mechanical emulsified oil and grease removal unit shall be provided if the FOG concentration of the influent wastewater is excessively high. It may be provided to protect downstream equipment / processes where:

- a. Lamella plate settlers are used at downstream processes
- b. Influent FOG concentration is high (e.g. > 100 mg/L on average)

4.3.3 The design capacity shall be able to treat the design peak flow.

4.3.4 FOG separation by diffused air is preferred.

4.3.5 Effective FOG removal mechanism shall be provided. Removed FOG can be sent to sludge holding tanks for further treatment in anaerobic digesters), where applicable, unless inhibitory substances exist.

4.3.6 The removal of emulsified oils and greases shall be located before the equalization tank to minimize the build - up of oil and grease in the equalization tank.

4.3.7 The collected emulsified oils and grease shall be mixed with the sludge for treatment and handling.

4.3.8 To protect downstream processes, emulsified oils and grease shall be removed prior to any biological treatment.

4.3.9 Oil and grease levels entering the sewage are anticipated to be highly variable in concentration and will consist of free oil and grease as well as emulsified oil and grease.

4.4 Biological Treatment

4.4.1 The Fixed Bed Activated Sludge (FBAS) treatment technology is the preferred technology as secondary biological treatment process. However, other similar technologies can be offered as long as that it will have a better CAPEX and OPEX compared to FBAS technology. The offered technology will be designed and installed to meet the requirements of this Performance Specification, especially the effluent quality standard.

4.4.2 Biological treatment will remove the required amount of BOD, ammoniacal nitrogen, phosphorus, and other impurities to ensure the effluent quality specified in DENR Class C is met. The BNR plant is required to comply with both nitrogen and phosphorus removal requirements by denitrification in the anoxic zones of the activated sludge system.

- 4.4.3 Secondary treatment of the WWTP can be a combination of attached growth (fixed film), suspended growth, or hybrid biological processes designed to consistently meet the performance and effluent requirements. Proposed technologies shall have proven records to work in previous projects undertaken. The Employer has the option to inspect previous projects performance for confirmation. Any false representation in the bid shall be ground for disqualification by the Employer.
- 4.4.4 Consistent with the requirement for optimized design, the contractor shall be responsible for setting the optimum hydraulic profile, the optimum number of modules/trains and the optimum dimensions of the different components based on optimum design parameters such that the effluent quality is met at minimum life-cycle cost of the plant.
- 4.4.5 Each aeration tank shall be provided with online monitors for DO, MLSS, TSS, pH, and temperature.
- 4.4.6 The design shall include means of draining down all basins or tanks one at a time for maintenance purposes. All sewage removed during a drain down shall be returned to a point in the process where the load can be evenly distributed to the basins in service to prevent shock loading. The draining facilities shall be capable of draining a basin fully within forty-eight (48) hours.

4.5 Final Sedimentation

This is required to produce a clear effluent and to ensure that the total suspended solids meets the discharge standard.

Table 1. Final Sedimentation Technologies

SECONDARY TREATMENT TECHNOLOGIES	SOLIDS SEPARATION (TYPICAL)
Fixed-Bed Biofilm Activated Sludge (FBAS)	Secondary Clarifier, Disc Filter
Moving Bed Biofilm Reactor (MBBR)	DAF, high rate filter, Secondary Clarifier
Integrated Fixed Film Activated Sludge (IFAS)	Secondary Clarifier

4.5.1 Secondary Clarifier

The secondary clarifier shall be designed using values of design parameters that are consistent with the design of the aeration tank, especially the sludge retention time and the mixed liquor suspended solids. The sizing must consider also the costs of sludge storage, dewatering and disposal. In short, the design of the secondary clarifier should consider the life-cycle costs of the upstream and downstream components.

4.5.2 Disc Filter

Disc filters shall be fully enclosed, free-standing units or may be semi-submerged units located in a covered tank. The filter will consist of a series of rotating discs which will be partially submerged in the plant flow through the disc filter tank. Each disc filter unit will be sized for ADWF and have capacity for peak flows. Backwashed sludge will be collected in a central trough housed within the central flow distribution channel.

The upstream hydraulic grade line will increase as solids accumulate on the filter media. When the inlet liquid level increases to a predetermined point, the control system will initiate backwash operation. Level monitoring using ultrasonic level gauges is preferred but alternate means of level detection will be considered.

The backwash operation will use treated waste water to provide a reverse flow across the filter surfaces generating a reverse flow across the filter cloth. Each unit will be equipped with a dedicated backwash pump (if necessary, i.e. assuming that recycled waste water pressure is below a required pressure) per filter and sprayed on the non-submerged portion of the filter elements. Backwashed sludge will be discharged to the sludge holding tank.

4.6 Disinfection

Disinfection may be required to reduce pathogens prior to release to the environment. UV is the preferred method for disinfection. The Contractor shall demonstrate their proposed method of disinfection control, to ensure that overdosing is not a risk, and that downstream ecology is not adversely affected. The Contractor shall state the pathogen log removal offered by the supplied wastewater treatment plant. Disinfection shall be included as a final step in the treatment process.

UV disinfection shall be provided as required to meet the overall pathogen reduction specified in the effluent discharge requirements and/ or reuse requirements.

Chlorination disinfection and UV are required with UV taking precedence.

4.7 Effluent Discharge

After treatment, the effluent shall discharge by gravity from the contact tank above the maximum flood level. Discharge of final effluent from the wastewater treatment plant to water bodies shall comply with current applicable DENR and other relevant national standards.

4.8 Sludge Management

Sludge will be collected in a holding tank where it will be kept in aerated and agitated condition using diffused aeration system. Sludge dewatering shall be

accomplished by mechanical means and will not occur in sludge drying beds or lagoons. Dewatered sludge shall be transferred to covered skips or similar and the Contractor will be responsible for conveyance off-site to an approved disposal location.

The Contractor will be responsible for conveyance offsite to an approved disposal location.

4.9 Buildings

All buildings such as administration/laboratory, air blowers building, chemical building and dewatering facility building shall follow the Philippine Building Code. All buildings shall be provided with proper lighting, ventilation, air conditioning, noise barriers, etc. that may be required for the smooth operation of the building.

4.10 Piping and Valves

4.10.1 Materials for pipelines shall be resistant to corrosive attack and mechanically satisfactory for the duty.

Preferred pipe materials are as follows:

- Sewage transmission Reinforced concrete
- Sewage network PVC or Ductile Iron

Pipe pressure ratings shall be determined according to test and working pressure requirements for the design flow at the end of the concession period.

4.10.2 All valves required for operation of the utility infrastructure shall be provided by the Contractor and where applicable integrated with the SCADA system. Such valves will include isolating valves, air valves, washout valves, and pressure regulating valves.

Duty and standby equipment items shall be equipped with an isolating valve at the feed and outlet to enable removal for off-line maintenance.

4.11 Stand-by Generator

An emergency generator shall be provided to handle the given capacity during power outages. The emergency generator shall be housed in secured building complete with lighting and ventilation system. The emergency generator shall also provided pollution control device conforming to the Department of Environment and Natural Resources.

The Contractor shall be responsible in obtaining the Permit to Operate from DENR-EMB

4.12 Monitoring Devices

pH and DO probe with indicators shall be installed at the equalization tank and aeration tanks for monitoring purposes.

5.0 Sewage Treatment Plant Equipment

5.1 General

5.1.1 Under this section, mechanical equipment will include the furnishing, installation, and testing under operational conditions, of all items required by the STP. Insofar as possible and practicable, equipment items will be standard units of reputable manufacturers regularly engaged in the design, fabrication and testing of their product preferably from the United States of America, Japan, Europe, Israel, Singapore and the like. These specifications stipulate that the contractor shall engage the services of competent personnel to test the installed equipment and to acquaint and train the treatment plant personnel on operation and maintenance procedures. Country of origin is a matter of preference. Others of similar quality and reliability may be considered, especially if they are licensed manufacturers from preferred source.

5.1.2 Unless otherwise specified, contractors shall provide two sets of electro-mechanical equipment with one set normally operating and the second set serving as stand-by.

5.2 Equipment

5.2.1 Lift Pumps: Furnish and install at least two (2) sets of Lift Pumps with adequate capacity to handle the daily sewage flow. Each lift pump shall have the capacity equivalent to average flow.

Pump casing, shaft, impeller, bearing, housing, pump pedestal, and motor pedestal will be fabricated of materials suitable to handle wastewater and resistant to corrosive environment. Lift pumps shall originate preferably from the United States of America, Japan, Europe, Israel, Singapore and the like and should be factory assembled. Country of origin is a matter of preference. Others of similar quality

and reliability may be considered, especially if they are licensed manufacturers from preferred source.

- 5.2.2 Bar screen: The influent box shall be furnished with a removable stainless steel bar screen and the necessary fasteners for connecting to the plant influent box.
- 5.2.3 Aeration system: Furnish and install a complete aeration system designed to provide adequate aeration for the daily design sewage flow. The aeration equipment shall consist of removable components or sub-assemblies made of corrosion-resistant material for easy maintenance and shall be equipped with a regulating valve for adjusting or shutting off air flow.
- 5.2.4 Air Supply System: The air requirement of the plant shall be supplied thru three (3) rotary positive displacement blowers of identical capacities. The capacity of each blower shall be fifty percent (50%) of the total air requirement at the ultimate design flow.

Each blower shall be provided with an inlet filter, silencer regulator to vary the air output, a weighted type air relief valve and shut-off valve. Blower shall originate preferably from the United States of America, Japan, Europe, Israel, Singapore and the like. Country of origin is a matter of preference. Others of similar quality and reliability may be considered, especially if they are licensed manufacturers from preferred source.

- 5.2.5 Secondary Clarifiers: Secondary clarifiers must be designed to produce an effluent TSS concentration not greater than 100 mg/L to effectively reduce total phosphorus to below 1.0 mg/L. Sidewater depth should be designed such that the clarifier can be operated with minimal upflow velocity through the sludge blanket. Clarifier shall be equipped with automatic scraping and desludging devices. Flow distribution channel/chamber shall be provided for flow isolation or to equalize the flow distribution.

For shorter detention time for settling sludge and to accommodate in-tank flocculation chamber, circular clarifiers are preferred. Lamella plate clarifiers may also be used provided it has a higher efficiency than the circular clarifiers.

- 5.2.5 Chlorination: Furnish and install an automatic chlorinator capable of delivering the required dosage of solution in a variable sewage flow condition. The equipment shall be equipped with discharge tubing,

motor, sensor/transmitters, chlorine solution tanks and chlorine residual analyzers for chlorine residual monitoring.

- 5.2.6 Test Kit: Furnish with the plant a portable test kit to include the necessary equipment and chemical reagents to determine dissolved oxygen, settleable solids, relative stability and hydrogen ion concentrations (pH). The kit shall be provided with instructions/manual for performing the analysis. The equipment and reagents shall be completely contained in a portable container with a hinged cover and carrying handle.

5.3 Motors

5.3.1 General Requirements

5.3.1.1 Motors shall be furnished with driven equipment to assure proper coordination of motor and control characteristics with requirements of driven equipment. Contractor is responsible for proper correlation of horsepower, starting torque, other characteristics of electrical equipment with requirement of driven equipment.

5.3.1.2 All necessary accessories essential to the proper operation of the motor and the driven equipment shall be provided.

6.0 Structural System

6.1 References

American Water Works Association, AWWA D100

National Structural Code of the Philippines

Uniform Building Code

ACI 318-08 Building Code Requirements for Structural Concrete and Commentary

ACI 350-01 Manual of Concrete Practice Environmental Engineering Structures

ACI 224-01 Control of Cracking in Concrete Structures

Other ACI Codes, as applicable.

6.2 Basic Design Loads

6.2.1 Dead Load:

- a. Dead Load, DL

- b. Live Load on Roof, LL
- c. Hydrostatic Load, F
- d. Lateral Soil Pressure, H
- e. Seismic Load, E
- f. Wind Load, W
- g. Uplift (Bouyancy)

6.2.2 Basic Design Conditions (where applicable)

6.2.3 Empty reservoir subjected to lateral soil pressure including all surcharge loads during construction and service.

6.2.4 Full reservoir without external passive soil pressure during hydro testing.

6.2.5 Equivalent hydrostatic pressure considering sloshing effect of fluid during earthquake as applicable.

6.3 Additional load combination specific to environmental structures in compliance with durability requirements per ACI 350-01.

$$UI = 1.3(1.4DL + 1.7LL + 1.7H)$$

Special design requirements include but are not necessary limited to the following:

1. Crack control requirements per ACI 224-01
2. Minimum thickness of walls as per ACI 350-01
3. Maximum spacing of reinforcements as per ACI 350-01

6.4 Material Specifications

Concrete	:	$f_c = 24.1$ Mpa, minimum
Reinforcing Bars	:	$f_y = 275$ Mpa, minimum
	:	conforming to PNS49
	:	deformed, weldable

7.0 Miscellaneous Metal Works

Miscellaneous metalwork including pipe handrails, grating supports, ladders, rung, seat angles, guards, stop gates and guides, weir plates, launders and through, pipe hangers and supports, anchor bolts, and all required anchors and appurtenances, shall be stainless steel 316.

8.0 General Provisions

8.1 General Conditions

- 8.1.1 All sections under this Division shall be subject to the requirements of the Department of Environment and Natural Resources and Environmental Management Bureau.
- 8.1.2 The term Contractor in these Specifications shall mean the Contractor for the Sewage Treatment Plant.

8.2 General Description

- 8.2.1 The work to be done shall consist of the design and construction, complete in all details, of the Sewage Treatment Plant Works, at the subject premises, and all work and materials incidental to the work that are expressly stated to be done by others.
- 8.2.2 All work shall be in accordance with the governing Codes and Regulations and with these Specifications, except where same shall conflict with existing codes, etc., in which latter shall then govern.
- 8.2.3 The requirements with regards to materials and workmanship specify the required standards for the furnishing of all labor, materials and appliances necessary for the complete installation of the work specified herein and indicated on the drawings. These specifications are intended to provide a broad outline of the required installation, but are not intended to include all details of design and construction.
- 8.2.4 The Contractor shall adopt his proprietary technique to guarantee the safety and performance of the system in accordance with the concepts and criteria set by these Specifications. The Contractor must be experienced in Sewage Treatment Plant works.
- 8.2.5 No consideration will be granted for any alleged misunderstanding on the quality of materials to be furnished or work to be done, it being

understood that the submission of a proposal is an Agreement to all items and conditions referred to immediately place an order as soon as the project is awarded to him. Any exceptions, omission or substitutions shall be presented in writing with the Contractor's Bid.

- 8.2.6 The Contractor, before commencing work, shall examine the proposed location of the STP and all adjoining areas on which this work is in any way dependent for perfect workmanship according to the intent of these specifications and shall report to the Owner's representative any condition which will prevent the Contractor from performing first class work. No waiver of responsibility for defective work will be considered unless notice has been filed at the time the Contractor submits his proposal.

8.3 Work Included

Under this Division of the Specifications, provide all materials and equipment and perform all the work necessary for the complete execution of all Sewage Treatment Plant (STP) works as herein specified, except as otherwise but not be limited to the following principal items of work:

- 8.3.1 Furnishing, delivery to the project site and installation of complete Sewage Treatment Plant including all equipment, valves, and piping, motor and controls and all accessories necessary to complete the system.
- 8.3.2 Preparation of installation drawings and design calculations of the above STP including selection of mechanical equipment capacities, design of tank dimensions, piping and all accessories to comply with the concepts and criteria set by these Specifications.
- 8.3.3 Electrical Controls of the above systems including motor control center, remote control switches, motor controllers and starters, wires and cables, conduits and other required accessories.
- 8.3.4 Sanitary sewer connection of effluent pipe from STP to the site storm drainage system.
- 8.3.5 Corrosion protection and painting of all equipment and piping including all exposed and embedded materials.
- 8.3.6 Interim Operations and Maintenance, and Complete testing and commissioning of the entire Sewage Treatment Plant for Twelve (12)

months satisfying dry and wet conditions, including supply of all instruments for operating and testing the various systems and submission or reports.

- 8.3.7 Full instruction after completing the job to the maintenance personnel regarding operation and maintenance of the entire installation. Provide complete printed/typewritten instruction booklets (hardbound) covering maintenance, operation and adjustments of each piece of equipment and list of spare parts for each piece of equipment.
- 8.3.8 If anything has been omitted in any item of work or materials usually furnished, which are necessary for the completion of the STP Work as outlined herein before, then such items must be and are hereby included in this Division of the Work.
- 8.3.9 Acquisition of Authority to Construct, Discharge Permit, and Permit to Operate from DENR and Building Permit.
- 8.3.10 Prepare Environmental Impact Assessment (EIA) and other documentary requirements and facilitate the application until issuance of Environmental Compliance Certificate.
- 8.3.11 Coordinate and facilitate service application to Meralco for Primary or Secondary metering and costs for any specialty voltages, frequencies, DC (if required) that should include the necessary transformers, rectifiers, inverter/converter for a stable operation.
- 8.3.12 Coordinate and facilitate water service application with Manila Water Company, Inc.

The Contractor shall prepare all plans, applications, permits, etc., and shall complete all tests, forms, etc., required by all rules, regulations, etc. of all the Government Authorities having jurisdiction and such shall be completed by personnel of proper caliber, in particular engineers, where so required.

8.4 Codes, Inspections, Permits and Fees

- 8.4.1 The work under this Contract is to be installed according to the latest applicable codes, ordinances and requirements of the following:
 - a. National Plumbing Code of the Philippines
 - b. Sanitation Code of the Philippines

- c. Department of Health
- d. Rules and Regulations of Fort Bonifacio, Taguig
- e. Effluent Regulations of 1990 – Environmental Management Bureau (EMB) formerly National Pollution Control Commission (NPCC).
- f. Rules and Regulations of the EMB for Domestic and Industrial Wastewater Disposal (Section 6g of Presidential Decree No. 984, otherwise known as the National Pollution Control Decree of 1976).
- g. DENR Administrative Order (DAO) 2016-08
- h. LLDA MC2017-05
- i. DSG Bonifacio South Properties

The Contractor's bid shall be deemed to include all costs to comply with the various code, inspections, permits and fees.

Nothing contained in this Specification shall be construed as to conflict with National and Local Ordinances or Laws governing the installation of Sewage Treatment Plant Work and all such laws and ordinances are hereby made part of this Specification. The Contractor is required to meet the requirements hereof.

8.4.2 Codes and Standards of following organizations other than mentioned above are referenced in this Specification. The Contractor's price shall be deemed to include compliance with the following:

- a. American National Standards Institute (ANSI)
- b. American Society for Testing and Materials (ASTM)
- c. American Water Works Association (AWWA)
- d. International Organization for Standardization (ISO)
- e. National Electrical Manufacturers Association (NEMA)
- f. Underwriters' Laboratories (UL)
- g. Uniform Plumbing Code by IAPMO
- h. U.S. Federal Specifications (FS)

8.4.3 All construction permits and fees required for this work shall be obtained by and at the expense of the Contractor. The Contractor shall furnish the Architect, the Engineer and the Owner final certificates of inspection and approval from the proper government authorities after the completion of the work.

8.4.4 Approval from authorities of all plans for construction shall be secured by the Contractor.

8.5 Record Drawings

8.5.1 The Contractor shall, during the progress of work keep record of all deviations of the actual installation from that shown in the approved Installation Drawings.

8.5.2 Upon completion of work, the Contractor shall submit two (2) copies of the as-built drawings, signed and dry-sealed by the Contractor's registered sanitary engineer, indicating the work as actually and finally installed, including new information not originally shown in the approved Installation Drawings, to the Engineer for approval as to conformance with these Specifications and compliance with pertinent Code provisions. The Contractor shall also submit two (2) sets of operating and maintenance instructions, equipment and parts lists for approval.

After such approvals, the Contractor shall submit the as-built originals (sepia) and two (2) sets of prints to the Owner, as well as three (3) sets of operating and maintenance instructions, equipment and part lists, including addresses of manufacturers or suppliers of major equipment and materials.

8.5.3 Approval of the as-built drawings by the Engineer shall be a requirement for final acceptance of the completed works and for final payment.

8.6 Installation Drawings and other Submittals

8.6.1 The Contractor shall prepare and submit for approval the following:

- a. Dimensional layout drawings of the Sewage Treatment Plant and its auxiliary equipment, pumping and piping systems, concrete tanks, control system and other systems which are complete in nature, or which require close coordination with other work of this trade and/or the work of other trades.
- b. Calculation of sewage treatment processes, equipment sizing and selections, and other processes involved in the preparation of proposed construction of the Sewage Treatment Plant.
- c. Dimensional drawings of all concrete tanks and other structures required in the review of structural design.

- d. Electrical control components to include MCC's, starters, breakers, wires, etc.
- e. Complete control schematic and wiring diagrams for all equipment.
- f. Manufacturer's catalog sheets, marked as necessary to indicate materials or equipment being furnished for the following:
 - Pumps, blowers and other STP equipment complete with ratings and dimensions.
 - Controls, magnetic starters, pressure switches, valves, etc.
 - Valves: Gate, check and pressure reducing valves
 - Pipes and fittings
 - Flexible couplings
 - Riser supports, hangers and sleeves
- g. Marked sets of piping drawings showing mark number and exact location of hangers, anchors, guides and sway braces, and approximate location of random hangers.
- h. Details of all anchors, guides and sway braces.
- i. List of miscellaneous materials proposed, including pipe, fittings, valves, etc., and manhole accessories, identifying manufacturer and type.
- j. Field test reports
- k. Such other drawings as the Engineer may require.

8.6.2 All drawings should be signed and dry sealed by the Contractor's Registered Sanitary Engineer, Structural Engineer and other Professional Engineers concerned.

8.6.3 All drawings, etc., shall be submitted sufficiently in advance of field requirements to allow ample time for checking and no extension of the contract time will be granted this Contractor, by reason of his failure in this respect.

All submittals shall be complete and shall contain all required information and details.

8.7 Coordination

- 8.7.1 Coordinate schedule of installation with works of other trades.
- 8.7.2 Systems provided shall be complete and operable, and shall include required accessories, fastenings and supports.
- 8.7.3 All equipment shall be installed in strict accordance with manufacturer's recommendation.
- 8.7.4 Coordinate and facilitate with the necessary stakeholders and Government agencies for the implementation and operation of the Project.

8.8 Guarantee

- 8.8.1 The Contractor shall guarantee the Sewage Treatment Plant's complete and successful operation against defects on the equipment and defects in workmanship for a period of two (2) years from date of completion of the Contract certified by the Architect. Said warranty shall include repair works and labor.
- 8.8.2 The Contractor shall guarantee the performance of the STP for one (1) year in terms of complying with the required effluent characteristics as stated in Section 3.4 Effluent Characteristics.
- 8.8.3 All equipment furnished and installed shall be new and free of defects in design materials and workmanship. The Contractor shall replace, without additional cost to the Owner, any defective material or equipment within two (2) years after final acceptance of the plant.
- 8.8.4 Replacement of defective components, labor to trouble-shoot or repair of the systems shall be furnished by the Contractors at no charge to the Owner during the guarantee period.
- 8.8.5 The Contractor shall indemnify and save harmless the Owner and the Engineer from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omissions of Contractor or any of his Sub-Contractors, including any and all expenses, legal or otherwise which may be incurred by the Owner or the Engineer, in the defense of any claim, action or suit.

8.9 Approval, Substitutions, etc.

Wherever hereinafter the words "For Approval", or "Approved" (make, type, size, arrangement, etc.) are used, especially in regard to manufactured specialties, etc. or whenever it is desired to substitute a different make or type of apparatus for that specified, all information pertinent to the adequacy and adaptability of the proposed apparatus, shall be submitted and their approval secured before submitting the bid. No approvals or substitutions on specified items will be entertained unless requested by the Owner after the Contract Award or during construction.

8.10 Workmanship

The work throughout shall be executed in the best and most thorough manner to the satisfaction of the Architect and the Engineer who will jointly interpret the meaning of the Drawings and Specifications and shall have power to reject any work and materials which in their judgment are not in full accordance therewith.

The Contractor shall assume full responsibility for the design, construction, installation, testing, commissioning and hand-over of Sewage Treatment Plant and guarantee its satisfactory performance as described in paragraph 8.8 of this Section.

UNCONTROLLED WHEN PRINTED OR EMailed

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

***Section VII. Drawings
(In Separate Volume)***

UNCONTROLLED WHEN PRINTED OR EMAILED

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

Section VIII. Bill of Quantities

UNCONTROLLED WHEN PRINTED OR EMAILED

BILL OF QUANTITIES		
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park	
Location:	Bonifacio Capital District, Taguig City	
SUMMARY		
ITEM	DESCRIPTION	BID AMOUNT (Php)
I	GENERAL REQUIREMENTS	
PART A	FACILITIES FOR THE ENGINEER	
PART B	OTHER GENERAL REQUIREMENTS	
II.A	SITE DEVELOPMENT	II.B + II.C
II.B	ACCESS ROAD	
PART C	EARTHWORKS	
PART D	SUBBASE AND BASE COURSE	
PART E	SURFACE COURSES	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES	
PART H	MISCELLANEOUS STRUCTURES	
	ROADWAY LIGHTING SYSTEM	
II.C	FREEDOM PARK	
PART C	EARTHWORKS	
PART D	SUBBASE AND BASE COURSE	
PART E	SURFACE COURSES	
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES	
PART H	MISCELLANEOUS STRUCTURES	
	LANDSCAPING WORKS	
	ELECTRICAL WORKS	
III	SEWAGE TREATMENT PLANT	
	TOTAL BID AMOUNT	

TOTAL BID AMOUNT:

In Figures: _____

In Words: _____

Name and Signature of Bidder : _____

Name of Company and Official Stamp of Bidder : _____

Official Stamp

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
PART A	FACILITIES FOR THE ENGINEER				
A.1.1a1	Rental of Field Office for the Engineer (Min. of 50sq.m. Floor Area)	Month	12.00		
A.1.1 (16)	Operation and Maintenance of Field Office for the Engineer	Month	12.00		
A.1.1.b2	Furnishing Supplies and Consumables Stores for the Field Office for the Engineer (To be supplied on 1st month)	l.s.	1.00		
A.1.1.b3	Furnishing Supplies and Consumables Stores for the Field Office for the Engineer (To be supplied monthly)	Month	12.00		
A.1.1.b1	Furniture and Equipment for the Field Office of the Engineer	l.s.	1.00		
A.1.2 (2)	Pick Up Type Service Vehicle for the Engineer , 1 Unit per month, Rental Basis	Month	12.00		
A.1.2 (5)	Operation and Maintenance of 1 Unit - Pick Up Type Service Vehicle for the Engineer	Month	12.00		
A.1.4 (1)	Provision of Progress Photographs (assumed 50 photos per month)	ea.	600.00		
A.1.5 (1)	Communication Facility for the Engineer. 2 Units Cellular Phone, includes open access data, unli calls and unli texts, and Drone for weekly progress photographs Rental Basis	Month	12.00		
	TOTAL COST - PART A				
PART B	OTHER GENERAL REQUIREMENTS				
B.7 (1)	Occupational Safety and Health Program	Month	12.00		
B.4 (10)	Miscellaneous Survey and Staking	k.m.	0.20		
B.4 (10)	Slope, Reference, and Clearing and Grubbing Stakes	k.m.	0.20		
B.4 (10)	Centerline Re-establishment	k.m.	0.20		
B.4 (10)	Grade Finishing Stakes	k.m.	0.20		
B.5	Project Billboards / Signboards	ea.	2.00		
B.9	Mobilization / Demobilization	l.s.	1.00		
B.14	Environmental Management and Monitoring	Month	12.00		
B.15	Permits and Other Miscellaneous Fees	l.s.	1.00		
SPL (EIS)	Preparation of Environmental Impact Statement	Prov. Sum	1.00		
	TOTAL COST - PART B				
	TOTAL COST - PART A & B				

Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
II.B	ACCESS ROAD				
PART C	EARTHWORKS				
100 (1)	Clearing and Grubbing (including removal of trees and other existing structures and obstructions)	has.	0.32		
104 (2)a	Embankment from Borrow Fill	cu.m.	2,194.82		
105 (1)a	Subgrade Preparation, Common Materials	sq.m.	3,254.40		
	TOTAL COST - EARTHWORKS				
PART D	SUBBASE AND BASE COURSE				
200 (1)	Aggregate Subbase Course	cu.m.	655.00		
202 (1)	Crushed Aggregate Base Course	cu.m.	499.00		
	TOTAL COST - SUBBASE AND BASE COURSE				
PART E	SURFACE COURSES				
301 (1)	Bituminous Prime Coat (MC70 - Cut-back Asphalt)	sq.m.	1,926.25		
302 (2)	Bituminous Tack Coat (Emulsified Asphalt, SS-1)	sq.m.	1,926.25		
310 (1)c	Bituminous Concrete Surface Wearing Course, Hot-Laid, 63.5mm thk	sq.m.	1,926.25		
310 (2)c	Bituminous Concrete Surface Binder Course, Hot-Laid, 63.5mm thk	sq.m.	1,926.25		
311 (1)a	Portland Cement Concrete Pavement (Unreinforced), 0.15m Thick, 2,100 psi @ 14 days	sq.m.	1,008.00		
	TOTAL COST - SURFACE COURSES				
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES				
103 (6)a	Structure Excavation (Pipe Culverts and Drain)	cu.m.	327.60		
103 (3)-1	Foundation Fill, Gravel Bedding (RCPC)	cu.m.	170.40		
500 (1)a3	Pipe Culvert, 910mm dia. Class II, TYPE B (RCPC)	l.m.	218.00		
	Curb Inlet Manhole with manhole cover, includes excavation, backfill, lean concrete, concrete, reinforcing steel, formworks, disposal and other items to complete the work				
502 (1)	Curb Inlet Manhole, Depth = 2.46m	ea.	10.00		
	TOTAL COST - DRAINAGE AND SLOPE PROTECTION STRUCTURES				

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
PART H	MISCELLANEOUS STRUCTURES				
407 (1)	Lean Concrete	cu.m.	28.80		
600 (4)	Concrete Curb and Gutter (Cast In Place)	l.m.	474.00		
103 (3)-1	Foundation Fill, Gravel Bedding (Sidewalk)	cu.m.	151.00		
612 (1)	Reflectorized Thermoplastic Pavement Markings (White)	sq.m.	63.60		
	TOTAL COST - MISCELLANEOUS STRUCTURES				
	ROADWAY LIGHTING SYSTEM				
1100	CONDUITS, BOXES AND FITTINGS (CONDUIT WORKS/CONDUIT ROUGHING - INS) (for Ductbanks)				
	Polyvinyl Chloride Pipes (PVC/uPVC)	l.m.	441.60		
1101	WIRES AND WIRING DEVICES (including connectors, tapes, etc)				
	Electrical Wire	l.m.	441.60		
624	ROADWAY LIGHTING (including lighting fixture support)				
	Roadway Lighting Fixture, 2 x 150W LED Lamp/s w/ 2 x 12W LED Banner Lighting, 230V, Type - II, 2000LM, IP65, 4500K CCT mounted unto 9.0 meters High Tapered Hot-Dipped Galvanized Steel Pole with 1.5m long Double Bracket Arm; including all necessary fixing accessories to complete the job.	ea.	18.00		
624 (5)	LIGHTING CONTACTOR PANEL (LCP)				
	Lighting Contactor Panel, LCP1, Main: 40AT/100AF, 2P, 230V, 60Hz, MCCB, 10 KAIC, Branches: 3 - 20AT/100AF, 2P, MCCB, 1 - 20AT/100AF, 2P, SPARE in NEMA 4X Enclosure complete with 6 - LED Type pilot light indicator (green, red), 6 - Push Button Switch (green, red), 1 - Selector Switch (3 position type), 3 - Lighting Contactor, 31A, 2P, 240V, 60Hz, 1 - Photocell and all necessary accessories needed.	set	1.00		
1102	POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS, AND OTHER OVERCURRENT PROTECTION DEVICES				
	Kilowatt-Hr Meter, 1Ø, Class 100, 230V, 60Hz.	set	1.00		
1109	GROUNDING SYSTEM				
	Ground Rod Copper Clad	l.m.	441.00		
1111	MISCELLANEOUS ELECTRICAL/CIVIL WORKS				
	Testing and Commissioning	lot	1.00		
	TOTAL COST - ROADWAY LIGHTING SYSTEM				
	GRAND TOTAL COST - ACCESS ROAD				

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
I.I.C	FREEDOM PARK				
PART C	EARTHWORKS				
100 (1)	Clearing and Grubbing (including removal of trees and other existing structures and obstructions)	has.	1.00		
104 (2)a	Embankment from Borrow Fill	cu.m.	11,223.20		
104 (3)a	Selected Borrow for Topping, Plant Strip	cu.m.	1,765.50		
	TOTAL COST - EARTHWORKS				
PART D	SUBBASE AND BASE COURSE				
200 (1)	Aggregate Subbase Course	cu.m.	36.00		
202 (1)	Crushed Aggregate Base Course	cu.m.	28.80		
	TOTAL COST - SUBBASE AND BASE COURSE				
PART E	SURFACE COURSES				
301 (1)	Bituminous Prime Coat (MC70 - Cut-back Asphalt)	sq.m.	132.00		
302 (2)	Bituminous Tack Coat (Emulsified Asphalt, SS-1)	sq.m.	132.00		
310 (1)c	Bituminous Concrete Surface Wearing Course, Hot-Laid, 63.5mm thk	sq.m.	132.00		
310 (2)c	Bituminous Concrete Surface Binder Course, Hot-Laid, 63.5mm thk	sq.m.	132.00		
	TOTAL COST - SURFACE COURSES				
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES				
103 (1)a	Excavation	cu.m.	2,700.00		
511 (3)	Filter Cloth (Geotextile)	sq.m.	2,400.00		
511 (1)	Gabions	cu.m.	1,787.40		
	TOTAL COST - DRAINAGE AND SLOPE PROTECTION STRUCTURES				
PART H	MISCELLANEOUS STRUCTURES				
103 (3)-1	Foundation Fill, Gravel Bedding (For Plant Box)	cu.m.	22.20		
407 (1)	Lean Concrete	cu.m.	45.00		
600(4)	Concrete Curb and Gutter (Cast in Place)	L.m.	50.00		
903 (2) b-2	Formworks and Falsework (Plant Box)	sq.m.	420.00		
902 (1)b	Reinforcing Steel	kgs.	1,113.00		
405 (1)a3	Concrete, 3000 psi (Plant Box)	cu.m.	38.00		
	Rubberized Safety Mat (EPDM rubber fine surface granule including coarse granule base layer with keracrete cement mortar adhesive and EPDM drain system by specialist; including 300mm width concrete edging smooth finish, R.C. Structure by Engineer and gravel bedding; all as shown on Drawing A-8.11				

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
	For Jogging Path	sq.m.	214.50		
	Colored Concrete; All in accordance with Architect's specification; w/ provision for concrete and gravel base all as shown in Drawing A-8.14				
	For Fitness Area	sq. m.	310.00		
	Concrete Paving Blocks, 100 x 200 x 50 mm thk concrete paver randomly placed in running bond (color for approval); including 150mm width cast in place concrete edging; all in accordance with Architect's specification; w/ provision for reinforced concrete and gravel base all as shown in the Drawing A-8.16				
	For Sidewalk	sq.m.	1722.60		
	For Footpath	sq.m	321.63		
	For Sitting Area	sq.m	770.00		
	Stamped concrete (color for approval); including 300mm width cast in place concrete edging; all in accordance with Architect's specification; w/ provision for gravel base all as shown in the Drawing A-8.10				
	For Central Axis, Sitting Area and Basketball Court Footpath	sq.m.	610.50		
	Riverstone, multi-colored riverstones; from 50 up to 100mm dia. Loosely laid in site	sq.m.	138.00		
	Tree Pit with 1500 x 1500 mm planting area including 300 mm width cast in place concrete edging; with provision for R.C. structure and gravel bedding including all necessary works to complete the job; all as shown on Drawing A-15				
	Tree Pit , 1500 x 1500mm	Nr	17.00		
	Benches, Standard for 3 person, 1830 x 510 x 450mm; including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.3 & A-8.13	Nr	4.00		
	Benches, Standard for 2 person, including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.13	Nr	30.00		
	Basketball Court, International Standards including all necessary fixtures and floor finishes all as shown in Drawing A-8.12				
	Concrete	cu.m.	75.60		
	Rebars	kgs.	2,564.75		
	Formworks and Falseworks	sq.m.	15.48		
	Painting Works	sq.m.	420.00		
	Full size Basketball Equipment (including basketball ring, backboard, and stand)	sets	2.00		
	TOTAL COST - MISCELLANEOUS STRUCTURES				

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
LANDSCAPING WORKS					
608 (2)	Placing of Top Soil	cu.m.	1,765.50		
807 (3) a	Softscape, Large Trees (Cotton Tree, 4" dia.)	ea.	25.00		
807 (3) a	Softscape, Medium Size Trees (Golden Shower, 4" dia.)	ea.	15.00		
807 (3) a	Softscape, Small Size Trees (Pink Tabebuia, 2" dia.)	ea.	2.00		
807 (3) a	Softscape, Flowering Trees (Ilang-ilang, 2" dia.)	ea.	38.00		
807 (3) b.1	Softscape, Shrubs	sq.m.	2453.00		
807 (3) b.1	Softscape, Shrubs (Hedge Planting)	sq.m.	682.00		
807 (4) a	Softscape, Grass/Groundcover	sq.m.	2,751.00		
807 (16)	Landscaping Maintenance for 3 Months	l.s.	3.00		
TOTAL COST - LANDSCAPING WORKS					
ELECTRICAL WORKS					
	<p>Landscape Lighting, all specified in the Landscape Lighting detail plan or approved equal; including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.2, A-8.4 and A-8.5</p>				
	Pole Luminaire (Single Head)	ea.	15.00		
	Garden Luminaire w/ Mounting Clamp	ea.	20.00		
	Garden Luminaire w/ Earth Spike	ea.	51.00		
	Pole Floodlight (Single Head)	ea.	6.00		
	Recess Floor Uplights	ea.	90.00		
	Decorative Garden Pole Luminaire	ea.	70.00		
	Lighting Outlet, in 20mm dia. PVC Conduit; including 2-3.5mm ² THHN + 1-3.5mm ² THHN (G)				
	Lighting outlet	ea.	7.00		
	Main Circuit Breaker, 150AT, 100AF, 2P, 230V Center Main Floor Mounted Electrical Panel Board Enclosure Weatherproof/Outdoor type with Photocell and Automatic Switch Timer				
	Panel Board	ea.	1.00		
	Main Feederline, using 2-38mm ² THHN + 1-8.0mm ² THHN (G) in 50mm dia. RSC Pipe; including all necessary fixing accessories and works to complete the job	lot	1.00		
	Testing and Commissioning	lot	1.00		
TOTAL COST - ELECTRICAL WORKS					
GRAND TOTAL COST - FREEDOM PARK					

BILL OF QUANTITIES					
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park				
Location:	Bonifacio Capital District, Taguig City				
ITEM	DESCRIPTION	Unit	Quantity	Unit Cost (Php)	Total Cost (Php)
III	SEWAGE TREATMENT PLANT	1	lot		

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

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Checklist of Technical and Financial Documents

First Envelope (Technical Proposal)

Tab #	Description
1	<p>PhilGEPS Certificate of Registration under Platinum Membership</p> <p>Per GPPB Resolution No. 26-2017, during bid submission, prospective bidders may still submit their Class “A” Eligibility Documents pursuant to Section 8.5.2 of the 2016 revised AIRR (i.e. Registration Certificate from SEC, DTL, CDA; Mayor’s Permit; Tax Clearance; Philippine Contractors Accreditation Board (PCAB) license and registration; and Audited Financial Statements), or if already registered in the PhilGEPS under Platinum category, their Certificate of Registration and Membership in lieu of their uploaded files of Class “A” Documents, the Certificate of PhilGEPS Registration (Platinum Membership) shall remain a post-qualification requirement to be submitted in accordance with Section 34.2 of the 2016 revised IRR of RA 9184.</p>
2	<p>Statement of all on-going 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, supported by:</p> <p>a. Contracts or Notices of Award or Notices to Proceed.</p>
3	<p>Statement of Single Largest Completed Contract similar to the contract to be bid, equivalent to at least 50% of the ABC, supported by and Owner’s Certificate of Final Acceptance issued by the project owner other than the contractor or a final rating of at least satisfactory in the Contractors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document shall be submitted. Also, copy of as-built quantities as certified by the project owner.</p>
4	<p>In case of Joint Venture:</p> <p>a. Valid Joint Venture Agreement</p> <p>b. Valid special PCAB License, for at least category “A” and classification “Medium B” contractors</p> <p>Each partner of the joint venture shall submit their PhilGEPS Certificate of Registration under Platinum Membership of their Class “A” Eligibility Documents pursuant to Section 8.5.2 of the 2017 revised IRR while any of the joint venture shall submit the Technical and Financial Documents</p>
5	<p>Net Financial Contracting Capacity (NFCC) computations at least equal to the Approved Budget for the Contract (ABC) based on the latest audited Financial Statements submitted to BIR.</p>
6	<p>Valid bid security (Use the form prescribed in Section IX. Bidding Forms in case Bid Securing Declaration which should be notarized)</p>
7	<p>Organizational Chart for the contract to be bid</p>

8	List of contractor's personnel nominated/to be assigned to the project with their complete qualification and experience data. Personnel must meet the required minimum qualifications and years of experience set in the BDS.
9	List of contractor's equipment which are owned, leased and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project.
10	Notarized Omnibus Sworn Statement using the form prescribed in Section IX. Bidding Forms

Second Envelope (Financial Proposal)

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.

11	Financial Bid using the form prescribed in Section IX. Bidding Forms
12	Bid Prices in the Bill of Quantities
13	Daywork Rates for materials, labor and equipment
14	Detailed Unit Price Analyses in the form prescribed in Section IX. Bidding Forms
15	Cash Flow and Payment Schedule

Note: BCDA shall not assume any responsibility regarding erroneous interpretation or conclusions by the Bidder out of the data furnished by BCDA in relation to this bidding. The Bidder shall be responsible to ensure the completeness of its submission after taking the steps to carefully examine all of the Bidding Documents and its amendments.

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Section X. Bidding Forms

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**Construction of Sewage Treatment
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1. Bid Form

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Bid Form

[Insert date]

To: [Name of PROCURING ENTITY]

[Insert address]

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract [insert name of contract];
- (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;

The total price of our Bid, excluding any discounts offered below is: [insert amount in figures] and [insert amount in words];

The discounts offered and the methodology for their application are: [insert amount in figures] and [insert amount in words];

- (c) Our Bid shall be valid for a period of 120 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: _____

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***2. Statement of Availability of Key
Personnel and Equipment***

STATEMENT OF AVAILABILITY OF KEY PERSONNEL AND EQUIPMENT

[Date of Issuance]

To:

Dear _____:

In compliance with the requirements of the BCDA 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 Project Manager, Project Engineer, Chemical Engineer, Electrical Engineer, Sanitary Engineer, Landscape Architect, Quantity Surveyor, Materials Engineer and Health and Safety Officer, 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]

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***3. List of Construction Key Personnel
Proposed to be Assigned to the Project***

LIST OF CONSTRUCTION KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT

Business Name : _____
 Business Address : _____

	Project Manager	Project Engineer	Chemical Engineer	Electrical Engineer	Sanitary Engineer	Landscape Architect	Quantity Surveyor	Materials Engineer II	Health and Safety Officer
1. Name									
2. Address									
3. Date of Birth									
4. Employed Since (Current Co.)									
5. Previous Employment									
6. Education									
7. PRC License/ Accreditation from DOLE-OHSC (for the Health and Safety Officer)/ DPWH Accreditation									
8. Years of Experience in Proposed Position									

Note: This List must be supported by 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. Building Construction, Project Manager, 2012-2017)
2. Photocopy of PRC Licenses/DOLE-OHSC/DPWH Accreditation.

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

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***4. List of Equipment, Owned or Leased
and/or Under Purchase Agreement,
Pledged to the Proposed Contract***

LIST OF EQUIPMENT, OWNED OR LEASED AND/OR UNDER PURCHASE AGREEMENT, PLEGGED TO THE PROPOSED CONTRACT

Business Name : _____
 Business Address : _____

Description	Capacity/Performance/Size		Plate No.	Motor No./ Body No.	Location	Condition	Certificate of Availability	Proof of Ownership/ Lessor/Vendor
	Required	Actual						
A. Owned								
i.								
ii.								
iii.								
B. Leased								
i.								
ii.								
iii.								
C. Under Purchase Agreement								
i.								
ii.								
iii.								

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

Note: This List must be supported by proof of ownership, lease and/or purchase agreement.

a. if owned, supported by proof of ownership and Certification by the bidder of availability of equipment for the duration of the project;

b. if leased, Lease Agreement between lessor and lessee. Proof of Ownership of the Lessor to be included in the Technical Proposal, and Certification of Availability of Equipment from the equipment lessor for the duration of the project; and,

c. if under purchase agreement, supported by agreement to purchase and certification of availability of equipment from the equipment vendor and the bidder for the duration of the project.

The following are the list of accepted proof of ownership:

- Official Receipt
- Deed of Sale
- OR/CR
- Sales Invoice showing payment of VAT
- Proforma Invoice supported by a Sales Invoice
- Letter of Credit from bank with attached Purchase Order supported by a Sales Invoice
- Acknowledgement Receipt from Supplier
- Commercial Receipt/Commercial Invoice
- Original Invoice with attached Packing List
- Bill of Lading
- Collection Receipt
- Delivery Receipt

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***5. Statement of Completed Similar
Contracts***

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Statement of Single Largest Completed Contract (SLCC)

[Date]

Dear _____,

In compliance with the eligibility requirements for the bidding of the CONSTRUCTION OF SEWAGE TREATMENT PLANT, ACCESS ROAD AND FREEDOM PARK IN BONIFACIO CAPITAL DISTRICT, TAGUIG CITY, this is to certify that *[name and complete address of Bidder]* has the following completed government and private contracts:

Tab No.	Name of Contract	Date of Contract	Contract Duration	Owner's Name and Address	Nature of Work	Contractor's Role (whether sole contractor, subcontractor or partner in a JV)	Total Contract Value at Award (in PhP)	Date of Completion	Total Contract Value at Completion, if applicable (in PhP)	Percentages of Planned & Actual Accomplishments, if applicable	Value of Outstanding Works, if applicable (in PhP)

Yours sincerely,

[Signature over printed name of Authorized Representative]

[Title]

[Name of Firm]

Note: This statement shall be supported by contracts, certificate of completion or owner's final acceptance and CPES rating sheets, if applicable. These supporting documents shall be numbered and tabbed in the same sequence as the list of contracts appears in this statement.

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***6. Statement of All On-Going
Contracts***

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**Statement of All On-Going Government and Private Contracts,
Including Contracts Awarded but not yet Started, if any**

[Date]

Dear _____,

In compliance with the eligibility requirements for the bidding of the CONSTRUCTION OF SEWAGE TREATMENT PLANT, ACCESS ROAD AND FREEDOM PARK IN BONIFACIO CAPITAL DISTRICT, TAGUIG CITY, this is to certify that *[name and complete address of Bidder]* has the following on-going government and private contracts. [Including contracts awarded but not yet started]:

Tab No.	Name of Contract	Date of Contract	Contract Duration	Owner's Name and Address	Nature of Work	Contractor's Role (whether sole contractor, subcontractor or partner in a JV)	Total Contract Value at Award (in Ph₱)	[Estimated] Date of Completion	Total Contract Value at Completion, if applicable (in Ph₱)	Percentages of Planned & Actual Accomplishments, if applicable	Value of Outstanding Works, if applicable (in Ph₱)

Yours sincerely,

[Signature over printed name of Authorized Representative]
 [Title]
 [Name of Firm]

Note: This statement shall be supported by contracts or notices of award or notices to proceed issued by the owners. These supporting documents shall be numbered and tabbed in the same sequence as the list of contracts appears in this statement.

Failure to include all ongoing and completed contracts in the Statement may be a ground for disqualification for being incomplete, and may also result in blacklisting if proven that such

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7. Omnibus Sworn Statement

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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 contract for *[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.

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 is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the

2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate 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]

MCLE No. __

Doc. No. ____
Page No. ____
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Series of ____

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

8. Joint Venture Agreement

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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 Bases Conversion and Development Authority (BCDA) 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 BCDA;

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 BCDA 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 BCDA, 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 BCDA 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 BCDA, 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 BCDA, 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 BCDA 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.

(Notary Public)

Until _____
PTR No. _____
Date _____
Place _____
TIN _____
IBP _____

Doc. No. ;
Page No. ;
Book No. ;
Series of 20__.

Note: The competent evidence of identity for Notary shall comply with Sec. 12 (a), Rule II 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;

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

***9. Form of Performance Security
(Bank Guarantee)***

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Form of Performance Security (Bank Guarantee)

To :

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 Final Acceptance [Inspection, & Certification of Acceptance Report (I.C.A.R.)].

SIGNATURE AND SEAL OF THE
GUARANTOR
NAME OF BANK
ADDRESS
DATE

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

10. Bid Securing Declaration Form

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REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.
X-----X

BID-SECURING DECLARATION

Invitation to Bid/Request for Expression of Interest No.: (Insert Reference Number)

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

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 is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____.

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. ____

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

11. Form of Contract Agreement

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Form of Contract Agreement

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (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]

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

12. Form for Dayworks Rates

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DAYWORKS SCHEDULE

LABOR

Construction of Sewage Treatment Plant, Access Road, and Freedom Park in
Bonifacio Capital District, Taguig City

NO.	TYPE OF LABOR	UNIT	RATE
1	Foreman	Hour	
2	Skilled Laborer	Hour	
3	Unskilled Laborer	Hour	
4	Driver	Hour	

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DAYWORKS SCHEDULE

MATERIALS

Construction of Sewage Treatment Plant, Access Road, and Freedom Park in
Bonifacio Capital District, Taguig City

NO.	TYPE OF MATERIALS	UNIT	RATE
1	Cement	Bag	
2	Fine Aggregate	Cu.m.	
3	Coarse Aggregate	Cu.m.	
4	Reinforcing Steel Bars	Kg	

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DAYWORKS SCHEDULE

EQUIPMENT

Construction of Sewage Treatment Plant, Access Road, and Freedom Park in
Bonifacio Capital District, Taguig City

NO.	TYPE OF EQUIPMENT	UNIT	RATE
1	Road Grader	Hour	
2	Skid Loader	Hour	
3	Water Truck	Hour	
4	Roller, 1 Tonner	Hour	
5	Plate Compactor	Hour	
6	Tamping Rammer	Hour	
7	Electric Bar Cutter	Hour	
8	Electric Bar Bender	Hour	
9	One Bagger Mixer	Hour	
10	Concrete Vibrator	Hour	
11	Excavator, 0.5 cu.m.	Hour	

**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

13. Detailed Cost Estimates

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DETAILED COST ESTIMATE		
Project:	Construction of Sewage Treatment Plant, Access Road, and Freedom Park	
Location:	Bonifacio Capital District, Taguig City	
SUMMARY		
ITEM	DESCRIPTION	BID AMOUNT (Php)
I	GENERAL REQUIREMENTS	
II.A	SITE DEVELOPMENT	II.B + II.C
II.B	ACCESS ROAD	
II.C	FREEDOM PARK	
III	SEWAGE TREATMENT PLANT	
	TOTAL COST	

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**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT <small>12%[(5)+(9)]</small>	TOTAL INDIRECT COST <small>(11) (9)+(10)</small>	TOTAL COST <small>(12) (5)+(11)</small>	UNIT COST <small>(13) (12)/(3)</small>
				MATERIAL <small>(5.1)</small>	LABOR <small>(5.2)</small>	EQUIPMENT <small>(5.3)</small>	TOTAL <small>(5) (5.1)+(5.2) +(5.3)</small>	OCM <small>(6)</small>	PROFIT <small>(7)</small>	% <small>(8)</small>	VALUE <small>(9) (5) X (8)</small>				
PART A	FACILITIES FOR THE ENGINEER														
A.1.1a1	Rental of Field Office for the Engineer (Min. of 50sq.m. Floor Area)	12.00	Month												
A.1.1 (16)	Operation and Maintenance of Field Office for the Engineer	12.00	Month												
A.1.1.b2	Furnishing Supplies and Consumables Stores for the Field Office for the Engineer (To be supplied on 1st month)	1.00	I.s.												
A.1.1.b3	Furnishing Supplies and Consumables Stores for the Field Office for the Engineer (To be supplied monthly)	12.00	Month												
A.1.1.b1	Furniture and Equipment for the Field Office of the Engineer	1.00	I.s.												
A.1.2 (2)	Pick Up Type Service Vehicle for the Engineer , 1 Unit per month, Rental Basis	12.00	Month												
A.1.2 (5)	Operation and Maintenance of 1 Unit - Pick Up Type Service Vehicle for the Engineer	12.00	Month												
A.1.4 (1)	Provision of Progress Photographs (assumed 50 photos per month)	600.00	ea.												
A.1.5 (1)	Communication Facility for the Engineer, 2 Units Cellular Phone, includes open access data, unli calls and unli texts,and Drone for weekly progress photographs Rental Basis	12.00	Month												
	TOTAL COST - PART A														
PART B	OTHER GENERAL REQUIREMENTS														
B.7 (1)	Occupational Safety and Health Program	12.00	Month												
B.4 (10)	Miscellaneous Survey and Staking	0.20	k.m.												
B.4 (10)	Slope, Reference, and Clearing and Grubbing Stakes	0.20	k.m.												
B.4 (10)	Centerline Re-establishment	0.20	k.m.												
B.4 (10)	Grade Finishing Stakes	0.20	k.m.												
B.5	Project Billboards / Signboards	2.00	ea.												
B.9	Mobilization / Demobilization	1.00	I.s.												
B.14	Environmental Management and Monitoring	12.00	Month												
B.15	Permits and Other Miscellaneous Fees	1.00	I.s.												
SPL (EIS)	Preparation of Environmental Impact Statement	1.00	Prov. Sum												
	TOTAL COST - PART B														
	TOTAL COST - PART A & B														

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT <small>(10) 12%[(5)+(9)]</small>	TOTAL INDIRECT COST <small>(11) (9)+(10)</small>	TOTAL COST <small>(12) (5)+(11)</small>	UNIT COST <small>(13) (12)/(3)</small>
				MATERIAL <small>(5.1)</small>	LABOR <small>(5.2)</small>	EQUIPMENT <small>(5.3)</small>	TOTAL <small>(5) (5.1)+(5.2) +(5.3)</small>	OCM <small>(6)</small>	PROFIT <small>(7)</small>	% <small>(8)</small>	VALUE <small>(9) (5) X (8)</small>				
II.B	ACCESS ROAD														
PART C	EARTHWORKS														
100 (1)	Clearing and Grubbing (including removal of trees and other existing structures and obstructions)	0.32	has.												
104 (2)a	Embankment from Borrow Fill	2,194.82	cu.m.												
105 (1)a	Subgrade Preparation, Common Materials	3,254.40	sq.m.												
	TOTAL COST - EARTHWORKS														
PART D	SUBBASE AND BASE COURSE														
200 (1)	Aggregate Subbase Course	655.00	cu.m.												
202 (1)	Crushed Aggregate Base Course	499.00	cu.m.												
	TOTAL COST - SUBBASE AND BASE COURSE														
PART E	SURFACE COURSES														
301 (1)	Bituminous Prime Coat (MC70 - Cut-back Asphalt)	1,926.25	sq.m.												
302 (2)	Bituminous Tack Coat (Emulsified Asphalt, SS-1)	1,926.25	sq.m.												
310 (1)c	Bituminous Concrete Surface Wearing Course, Hot-Laid, 63.5mm thk	1,926.25	sq.m.												
310 (2)c	Bituminous Concrete Surface Binder Course, Hot-Laid, 63.5mm thk	1,926.25	sq.m.												
311 (1)a	Portland Cement Concrete Pavement (Unreinforced), 0.15m Thick, 2,100 psi @ 14 days	1,008.00	sq.m.												
	TOTAL COST - SURFACE COURSES														
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES														
103 (6)a	Structure Excavation (Pipe Culverts and Drain)	327.60	cu.m.												
103 (3)-1	Foundation Fill, Gravel Bedding (RCPC)	170.40	cu.m.												
500 (1)a3	Pipe Culvert, 910mm dia. Class II, TYPE B (RCPC)	218.00	l.m.												
	Curb Inlet Manhole with manhole cover, includes excavation, backfill, lean concrete, concrete, reinforcing steel, formworks, disposal and other items to complete the work														
502 (1)	Curb Inlet Manhole, Depth = 2.46m	10.00	ea.												
	TOTAL COST - DRAINAGE AND SLOPE PROTECTION STRUCTURES														

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTIT Y	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				MATE RIAL	LABOR	EQUIPME NT	TOTAL	OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(5) (5.1)+(5.2) +(5.3)	(6)	(7)	(8)	(9) (5) X (8)	(10) 12%[(5)+(9)]	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
PART H	MISCELLANEOUS STRUCTURES														
407 (1)	Lean Concrete	28.80	cu.m												
600 (4)	Concrete Curb and Gutter (Cast In Place)	474.00	l.m.												
103 (3)-1	Foundation Fill, Gravel Bedding (Sidewalk)	151.20	cu.m												
612 (1)	Reflectorized Thermoplastic Pavement Markings (White)	63.60	sq.m												
	TOTAL COST - MISCELLANEOUS STRUCTURES														
	ROADWAY LIGHTING SYSTEM														
1100	CONDUITS, BOXES AND FITTINGS (CONDUIT WORKS/CONDUIT ROUGHING - INS) (for Ductbanks)														
	Polyvinyl Chloride Pipes (PVC/uPVC)	441.60	l.m.												
1101	WIRES AND WIRING DEVICES (including connectors, tapes, etc)														
	Electrical Wire	441.60	l.m.												
624	ROADWAY LIGHTING (including lighting fixture support)														
	Roadway Lighting Fixture, 2 x 150W LED Lamp/s w/ 2 x 12W LED Banner Lighting, 230V, Type - II, 2000LM, IP65, 4500K CCT mounted unto 9.0 meters High Tapered Hot-Dipped Galvanized Steel Pole with 1.5m long Double Bracket Arm; including all necessary fixing accessories to complete the job.	18.00	ea.												
624 (5)	LIGHTING CONTACTOR PANEL (LCP)														
	Lighting Contactor Panel, LCP1, Main: 40AT/100AF, 2P, 230V, 60Hz, MCCB, 10 KAIC, Branches: 3 - 20AT/100AF, 2P, MCCB, 1 - 20AT/100AF, 2P, SPARE in NEMA 4X Enclosure complete with 6 - LED Type pilot light indicator (green, red), 6 - Push Button Switch (green, red), 1 - Selector Switch (3 position type), 3 - Lighting Contactor, 31A, 2P, 240V, 60Hz, 1 - Photocell and all necessary accessories needed.	1.00	set												
1102	POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS, AND OTHER OVERCURRENT PROTECTION DEVICES														
	Kilowatt-Hr Meter, 1Ø, Class 100, 230V, 60Hz.	1.00	set												
1109	GROUNDING SYSTEM														
	Ground Rod Copper Clad	441.60	l.m.												
1111	MISCELLANEOUS ELECTRICAL/CIVIL WORKS														
	Testing and Commissioning	1.00	lot												
	TOTAL COST - ROADWAY LIGHTING SYSTEM														
	GRAND TOTAL COST - ACCESS ROAD														

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				MATERIAL	LABOR	EQUIPMENT	TOTAL	OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(5) (5.1)+(5.2) +(5.3)	(6)	(7)	(8)	(9) (5)X(8)	(10) 12%[(5)+(9)]	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
II.C	FREEDOM PARK														
PART C	EARTHWORKS														
100 (1)	Clearing and Grubbing (including removal of trees and other existing structures and obstructions)	1.00	has.												
104 (2)a	Embankment from Borrow Fill	11,223.20	cu.m.												
104 (3)a	Selected Borrow for Topping, Plant Strip	1,765.50	cu.m.												
	TOTAL COST - EARTHWORKS														
PART D	SUBBASE AND BASE COURSE														
200 (1)	Aggregate Subbase Course	36.00	cu.m.												
202 (1)	Crushed Aggregate Base Course	28.80	cu.m.												
	TOTAL COST - SUBBASE AND BASE COURSE														
PART E	SURFACE COURSES														
301 (1)	Bituminous Prime Coat (MC70 - Cut-back Asphalt)	132.00	sq.m.												
302 (2)	Bituminous Tack Coat (Emulsified Asphalt, SS-1)	132.00	sq.m.												
310 (1)c	Bituminous Concrete Surface Wearing Course, Hot-Laid, 63.5mm thk	132.00	sq.m.												
310 (2)c	Bituminous Concrete Surface Binder Course, Hot-Laid, 63.5mm thk	132.00	sq.m.												
	TOTAL COST - SURFACE COURSES														
PART G	DRAINAGE AND SLOPE PROTECTION STRUCTURES														
103 (1)a	Excavation	2,700.00	cu.m.												
511 (3)	Filter Cloth (Geotextile)	2,400.00	sq.m.												
511 (1)	Gabions	1,787.40	cu.m.												
	TOTAL COST - DRAINAGE AND SLOPE PROTECTION STRUCTURES														
PART H	MISCELLANEOUS STRUCTURES														
103 (3)-1	Foundation Fill, Gravel Bedding (For Plant Box)	22.20	cu.m.												
407 (1)	Lean Concrete	45.00	cu.m.												
600(4)	Concrete Curb and Gutter (Cast in Place)	50.00	l.m.												
903 (2) b-2	Formworks and Falsework (Plant Box)	420.00	sq.m.												
902 (1)b	Reinforcing Steel	1,113.00	kgs.												
405 (1)a3	Concrete, 3000 psi (Plant Box)	38.00	cu.m.												
	Rubberized Safety Mat (EPDM rubber fine surface granule including coarse granule base layer with keracrete cement mortar adhesive and EPDM drain system by specialist; including 300mm width concrete edging smooth finish, R.C. Structure by Engineer and gravel bedding; all as shown on Drawing A-8.11														

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				MATERIAL	LABOR	EQUIP MENT	TOTAL	OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(5) (5.1)+(5.2) +(5.3)	(6)	(7)	(8)	(9) (5)X(8)	(10) 12%[(5)+(9)]	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
	For Jogging Path	214.50	sq.m.												
	Colored Concrete; all in accordance with Architect's specification; w/ provision for concrete and gravel base all as shown in the drawing A-8.14														
	For Fitness Area	310.00	sq.m.												
	Concrete Paving Blocks, 100 x 200 x 50 mm thk concrete paver randomly placed in running bond (color for approval); including 150mm width cast in place concrete edging; all in accordance with Architect's specification; w/ provision for reinforced concrete and gravel base all as shown in the Drawing A-8.16														
	For Sidewalk	1,722.60	sq.m.												
	For Footpath	321.63	sq.m.												
	For Sitting Area	770.00	sq.m.												
	Stamped concrete (color for approval); including 300mm width cast in place concrete edging; all in accordance with Architect's specification; w/ provision for gravel base all as shown in the Drawing A-8.17														
	For Central Axis, Sitting Area and Basketball Court Footpath	610.50	sq.m.												
	Riverstone, multi-colored riverstones; from 50 up to 100mm dia. Loosely laid in site	138.00	sq.m.												
	Tree Pit with 1500 x 1500 mm planting area including 300 mm width cast in place concrete edging; with provision for R.C. structure and gravel bedding including all necessary works to complete the job; all as shown on Drawing A-.15														
	Tree Pit , 1500 x 1500mm	17.00	Nr												
	Benches, Standard for 3 person, 1830 x 510 x 450mm; including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.13	4.00	Nr												
	Benches, Standard for 2 person, including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.13	30.00	Nr												
	Basketball Court, International Standards including all necessary fixtures and floor finishes all as shown in Drawing A-8.13														
	Concrete	75.60	cu.m.												
	Rebars	2,564.75	kgs.												
	Formworks and Falsework	15.48	sq.m.												
	Painting Works	420.00	sq.m.												
	Full size Basketball Equipment (including basketball ring, backboard, and stand)	2.00	set												
	TOTAL COST - MISCELLANEOUS STRUCTURES														

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (10) 12%[(5)+(9)]	TOTAL INDIRECT COST (11) (9)+(10)	TOTAL COST (12) (5)+(11)	UNIT COST (13) (12)/(3)
				MATERIAL (5.1)	LABOR (5.2)	EQUIP MENT (5.3)	TOTAL (5) (5.1)+(5.2) +(5.3)	OCM (6)	PROFIT (7)	% (8)	VALUE (9) (5)X (8)				
LANDSCAPING WORKS															
608 (2)	Placing of Top Soil	1,765.00	cu.m.												
807 (3) a	Softscape, Large Trees (Cotton Tree, 4" dia.)	25.00	ea.												
807 (3) a	Softscape, Medium Size Trees (Golden Shower 4" dia.)	15.00	ea.												
807 (3) a	Softscape, Small Size Trees (Pink Tabebuia, 2" dia.)	2.00	ea.												
807 (3) a	Softscape, Flowering Trees (Ilang-ilang, 2" dia.)	38.00	ea.												
807 (3) b.1	Softscape, Shrubs	2,453.00	sq.m.												
807 (3) b.2	Softscape, Shrubs (Hedge Planting)	682.00	sq.m.												
807 (4) a	Softscape, Grass/Groundcover	2,751.10	sq.m.												
807 (16)	Landscaping Maintenance for 3 Months	3.00	l.s.												
TOTAL COST - LANDSCAPING WORKS															
ELECTRICAL WORKS															
	Landscape Lighting, all specified in the Landscape Lighting detail plan or approved equal; including all necessary fixing accessories and work to complete the job; all as shown in Drawing A-8.2, A-8.4 and A-8.5														
	Pole Luminaire (Single Head)	15.00	ea.												
	Garden Luminaire w/ Mounting Clamp	20.00	ea.												
	Garden Luminaire w/ Earth Spike	51.00	ea.												
	Pole Floodlight (Single Head)	6.00	ea.												
	Recess Floor Uplights	90.00	ea.												
	Decorative Garden Pole Luminaire	70.00	ea.												
	Lighting Outlet, in 20mm dia. PVC Conduit; including 2-3.5mm ² THHN + 1-3.5mm ² THHN (G)														
	Lighting outlet	7.00	ea.												
	Main Circuit Breaker, 150AT, 100AF, 2P, 230V Center Main Floor Mounted Electrical Panel Board Enclosure Weatherproof/Outdoor type with Photocell and Automatic Switch Timer														
	Panel Board	1.00	ea.												
	Main Feederline, using 2-38mm ² THHN + 1-8.0mm ² THHN (G) in 50mm dia. RSC Pipe; including all necessary fixing accessories and works to complete the job	1.00	lot												
	Testing and Commissioning	1.00	lot												
TOTAL COST - ELECTRICAL WORKS															
GRAND TOTAL COST - FREEDOM PARK															

**DETAILED COST ESTIMATE
CONSTRUCTION OF STP, ACCESS ROAD, AND FREEDOM PARK
BONIFACIO CAPITAL DISTRICT, TAGUIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST				MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				MATERIAL	LABOR	EQUIP MENT	TOTAL	OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(5) (5.1)+(5.2) +(5.3)	(6)	(7)	(8)	(9) (5)X (8)	(10) 12%[(5)+(9)]	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
III	SEWAGE TREATMENT PLANT	1	lot												

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**Construction of Sewage Treatment
Plant, Access Road, and Freedom Park
in Bonifacio Capital District, Taguig
City**

***14. Format of Curriculum Vitae for
Key Personnel***

Format of Curriculum Vitae (CV) for Proposed Professional Staff

Proposed Position: _____

Name of Firm: _____

Name of Staff: _____

Registered Profession: _____

Date of Birth: _____ Nationality: _____

Years with Firm: _____ Position in the Firm: _____

Education

[Summarize college/university and other specialized education, giving names of schools, dates attended, and degrees obtained using the matrix below]

College/University	Degree/Title Obtained	Inclusive Dates

Trainings/Seminars

[Summarize the trainings, seminars and workshops undertaken, including those conducted by the nominated key staff, using the matrix below]

Title/Description	Conducted by	Inclusive Dates	Venue	Involvement*

*Such as participant, speaker or trainer

Projects Undertaken Related Building Construction and other related structures

[Provide outline of projects undertaken using the matrix below]

Title/Description	Client	Position	Start Date	Completion Date

Projects Presently Being Undertaken

[Provide outline of on-going projects using the matrix below]

Title/Description	Client	Position	Start Date	End Date

Memberships in Professional Societies

[Give an outline of memberships in professional societies using the matrix below]

Name of Society/Commission	Date of Conferment/Registration	License/Professional Number	Validity Date

Languages

[Using the format below, indicate proficiency of languages familiar with proficiency whether excellent, good, fair, or poor in speaking, reading, and writing]

Language	Proficiency		
	Speaking	Reading	Writing

Employment Record:

[Starting with present position, list in reverse order every employment held by nominated staff. List all positions since graduation, giving dates, names of employing organizations, titles of positions held, and locations of projects. Indicate relevant work experience of staff in his/her nominated position. For experience in last ten years, also give types of activities performed and client references, where appropriate]

Certification:

I, *[full name of proposed professional staff]*, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

Commitment:

I further commit that I shall work for the Construction of Special and Technical Staff Building as *[nominated position]* of *[name of bidding firm]* once awarded the contract..

Date: _____
[Signature over printed name of nominated key staff]

Date: _____
[Signature over printed name of authorized representative of the firm]

SUBSCRIBED AND SWORN to before me this ___ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____.

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 _____.

Important Note: Provide copy of valid professional registration/accreditation.

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