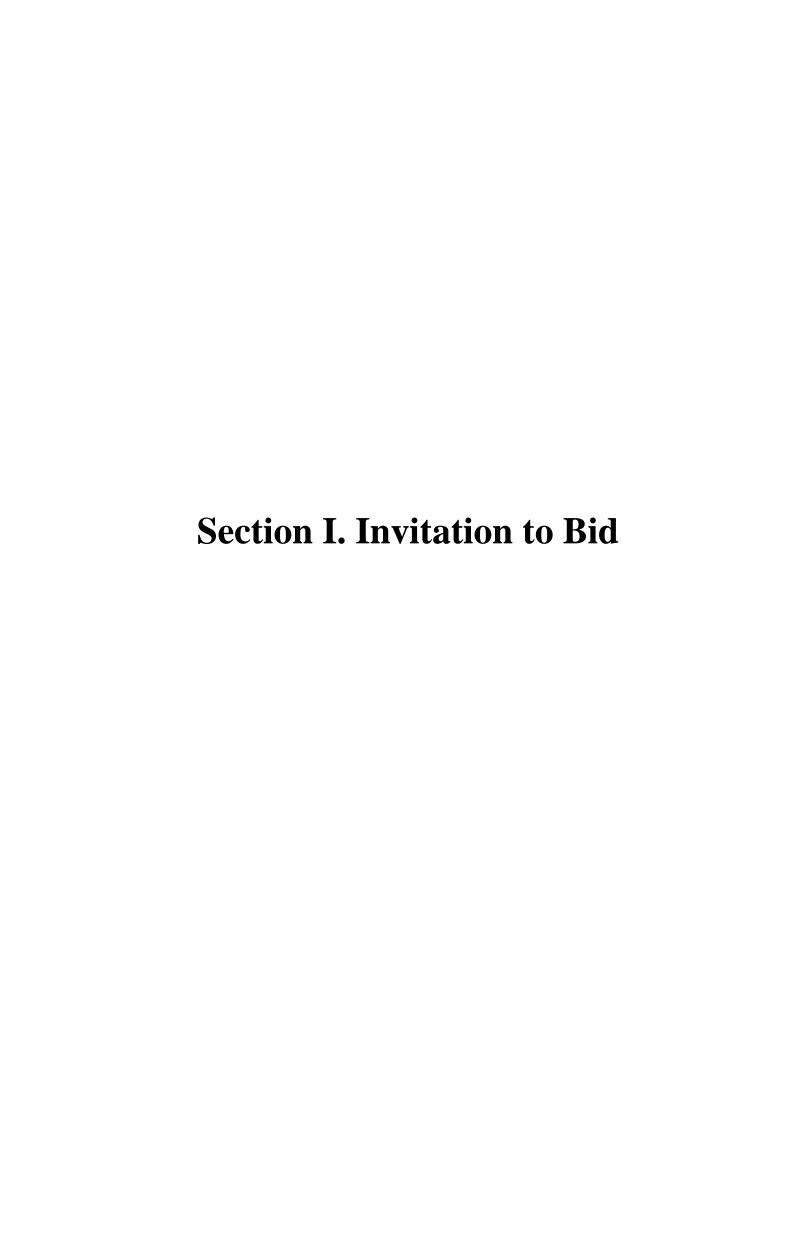
# PHILIPPINE BIDDING DOCUMENTS

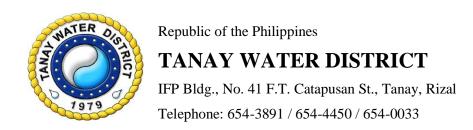
Construction/Installation of 100mm (4") Ø HDPE Pipe Distribution Line and 100mm (4") Ø Spiral Welded Steel Pipe (Bridge Crossing) from Tanay Public Market – Sitio Pasipit Brgy Plaza Aldea to Pastor Santos St. Brgy Wawa Tanay, Rizal



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#### **Invitation to Bid**

### Construction/Installation of 100mm (4") Ø HDPE Pipe Distribution Line and 100mm (4") Ø Spiral Welded Steel Pipe (Bridge Crossing) from Tanay Public Market – Sitio Pasipit Brgy Plaza Aldea to Pastor Santos St. Brgy Wawa Tanay, Rizal

- 1. The Tanay Water District, through the Corporate Budget for 2020 intends to apply the sum of One Million Three Hundred Ninety Three Thousand Nine Hundred Nine Pesos and 62/100 (₱ 1,393,909.62) being the Approved Budget for the Contract (ABC) to payments under the contract for the Construction/Installation of 100mm (4") Ø HDPE Pipe Distribution Line and 100mm (4") Ø Spiral Welded Steel Pipe (Bridge Crossing) from Tanay Public Market Sitio Pasipit Brgy Plaza Aldea to Pastor Santos St. Brgy Wawa Tanay, Rizal. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The Tanay Water District now invites bids for the above-mentioned works. The Completion of the Works is required within **100 working days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instruction 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 seventy five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.
- 4. Interested bidders may obtain further information from Tanay Water District and inspect the Bidding Documents at the address given below from **Monday to Friday 8:00 AM 5:00 PM Except Holidays**.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on **August 26, 2020 to September 23, 2020 Except Holidays,** from the address below and upon payment of the non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Five Thousand Pesos** (₱ **5,000.00**).

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

- 6. The Tanay Water District will hold a Pre-Bid Conference on **September 07, 2020, 02:00 PM** at the Tanay Water District Conference Room, #41 F. T. Catapusan St., Tanay Rizal, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat at the address below on or before **September 23, 2020, 02:00 PM**. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

Bid opening shall be on **September 23, 2020, 02:00 PM** at Tanay Water District Conference Room, #41 F. T. Catapusan St., Tanay Rizal . Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

- 8. The Tanay Water District reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
- 9. For further information, please refer to:

Mr. Wilfredo R. Ognilla BAC Secretariat Tanay Water District #41 F. T. Catapusan St.,Tanay Rizal Email Address: bacsec80@gmail.com

Telefax: 654-3891

SGD Ms. Vicky Flor P. Catapusan BAC Chairperson

Section	II	Inc	tructions	to	Rid	derc
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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 <u>BDS</u>. 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 <u>BDS</u>, and in the amount indicated in the <u>BDS</u>. It intends to apply part of the funds received for the Project, as defined in the <u>BDS</u>, 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 <u>BDS</u>, 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
  - 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 <u>BDS</u>, 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 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. Subcontracts

- 8.1. Unless otherwise specified in the <u>BDS</u>, the Bidder may subcontract portions of the Works to an extent as may be approved by the Procuring Entity and stated in the <u>BDS</u>. 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 <u>BDS</u> 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 <u>BDS</u>, a valid special PCAB License in case of joint ventures, and registration for the type and cost of the contract for this Project; and
- (iv) NFCC computation in accordance with ITB Clause 5.5.

Class "B" Documents

- (v) If applicable, Joint Venture Agreement (JVA) in accordance with RA 4566.
- (b) Technical Documents –

- (i) Bid security in accordance with **ITB** Clause 18. If the Bidder opts to submit the bid security in the form of:
  - (i.1) a bank draft/guarantee or an irrevocable letter of credit issued by a foreign bank, it shall be accompanied by a confirmation from a Universal or Commercial Bank; or
  - (i.2) a surety bond accompanied by a certification coming from the Insurance Commission that the surety or insurance company is authorized to issue such instruments.
- (ii) Project Requirements, which shall include the following:
  - (ii.1) Organizational chart for the contract to be bid;
  - (ii.2) List of contractor's personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data. These personnel must meet the required minimum years of experience set in the **BDS**; and
  - (ii.3) List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, which must meet the minimum requirements for the contract set in the **BDS**; and
- (iii) Sworn statement in accordance with Section 25.3 of the IRR of RA 9184 and using the form prescribed in Section IX. Bidding Forms.

#### 13. Documents Comprising the Bid: Financial Component

- 13.1. The financial component of the bid shall contain the following:
  - (a) Financial Bid Form, which includes bid prices and the bill of quantities, in accordance with **ITB** Clauses 15.1 and 15.3; and
  - (b) Any other document related to the financial component of the bid as stated in the **BDS**.
- 13.2. (a) Unless otherwise stated in the **BDS**, all Bids that exceed the ABC shall not be accepted.
  - (b) Unless otherwise indicated in the <u>BDS</u>, 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 <u>BDS</u>, which shall be not less than the percentage of the ABC in accordance with the following schedule:

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

(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.	
(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;	(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 <u>BDS</u>. 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 postqualification 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 <u>BDS</u> 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 <u>BDS</u>, 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) <u>Arithmetical corrections</u>. 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:
  - (a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the Bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;
  - (b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or

- (c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the 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:
  - (a) No bids are received;
  - (b) All prospective Bidders are declared ineligible;
  - (c) All bids fail to comply with all the bid requirements, fail post-qualification; or
  - (d) The Bidder with the LCRB refuses, without justifiable cause, to accept the award of contract, and no award is made in accordance with Section 40 of the IRR of RA 9184.

#### F. Award of Contract

#### 30. Contract Award

- 30.1. Subject to **ITB** Clause 28, the HoPE or its duly authorized representative shall award the contract to the Bidder whose bid has been determined to be the LCRB.
- 30.2. Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award duly received by the Bidder or its representative personally or by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.
- 30.3. Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:
  - (a) 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:

	Amount of Performance Security
Form 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	Ten percent (10%)
Commercial Bank.	_

For biddings conducted by the LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument. (b) Bank draft/guarantee irrevocable letter of credit a Universal issued by Commercial Bank: Provided, however, that it shall confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. For biddings conducted by the LGUs, Bank Draft/Guarantee, or Irrevocable Letter of Credit may be issued by other banks bytheBSPcertified authorized to issue such financial instrument. (c) Surety bond callable demand issued by a surety or Thirty percent (30%) company insurance duly certified by the Insurance

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.

Commission as authorized to

issue such security.

#### 33. Notice to Proceed

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

#### 34. Protest Mechanism

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

# Section III. Bid Data Sheet

## **Notes on the Bid Data Sheet**

This Section is intended to assist the Procuring Entity in providing the specific information

n relation to corresponding clauses in the ITB included in Section II, and has to be prepared for each specific procurement.
The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the Bids. In preparing this Section, the following aspects should be checked:
a) Information that specifies and complements provisions of
Section II. Instructions to Bidders must be incorporated.
b) Amendments and/or supplements, if any, to provisions of
Section II. Instructions to Bidders as necessitated by the circumstances of the specific
procurement, must also be incorporated.
For foreign-assisted projects, the Bid Data Sheet to be used is provided in Section X-Foreign-Assisted Projects.

# **Bid Data Sheet**

ITB Clause	
1.1	The Procuring Entity is <b>Tanay Water District</b> .
1.2	The name of the contract is Construction/Installation of 100mm (4") Ø HDPE Pipe Distribution Line and 100mm (4") Ø Spiral Welded Steel Pipe (Bridge Crossing) from Tanay Public Market – Sitio Pasipit Brgy Plaza Aldea to Pastor Santos St. Brgy Wawa Tanay, Rizal
	The identification Number of the contract is <b>Purchase Requisition No.</b> 09241 (Work Oder # 2020-01-01).
2	The Funding Source is:
	The Tanay Water District through its Corporate Budget for the contract approved by the governing Boards of Directors in the amount of
	One Million Three Hundred Ninety Three Thousand Nine Hundred Nine Pesos and 62/100 (₱ 1,393,909.62).
	The name of the Project is Construction/Installation of 100mm (4") Ø HDPE Pipe Distribution Line and 100mm (4") Ø Spiral Welded Steel Pipe (Bridge Crossing) from Tanay Public Market – Sitio Pasipit Brgy Plaza Aldea to Pastor Santos St. Brgy Wawa Tanay, Rizal.
3.1	No further instructions.
5.1	No further instructions.
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4(b)	The bidder must have completed, within five (5) years reckoned on the date of submission and receipt of bids, a single contract that is similar to this project, equivalent to at least 50% of the total ABC.
	For this purpose, similar contracts shall refer to Pipelaying Contracts.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on <b>September 07, 2020, 02:00 PM</b> at Tanay Water District Conference Room
10.1	The Procuring Entity's address is: Tanay Water District #41 F. T. Catapusan St., Tanay Rizal
	Contact Person: Mr. Wilfredo R. Ognilla BAC Secretariat Telefax: 654-3891 Email Address: bacsec80@gmail.com

12.1	No further instructions.
12.1(a)(iii)	No further instructions.
12.1(b)(ii.2)	No Further Instructions.
12.1(b)(iii.3)	No Further Instructions.
13.1(b)	This shall include all of the following documents:
	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 by quarter or payment schedule.
13.2	The ABC is <b>One Million Three Hundred Ninety Three Thousand Nine Hundred Nine Pesos and 62/100 (₱ 1,393,909.62).</b> Any bid with a financial component exceeding this amount shall not be accepted.
14.2	No further instructions.
16.1	The bid prices shall be quoted in Philippine Pesos.
16.3	No further instructions.
17.1	Bids will be valid until <b>120 days</b> .
18.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:
	1. The amount of not less than <b>Twenty Seven Thousand Eight Hundred Seventy Eight Pesos and 19/100</b> (₱ <b>27,878.19</b> ) ( 2% of ABC), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;
	2. The amount of not less than <b>Sixty Nine Thousand Six Hundred Ninety Five Pesos and 48/100</b> (₱ <b>69,695.48</b> ) (5% of ABC) if bid security is in Surety Bond.
18.2	The bid security shall be valid until 120 Days.
20.3	Each Bidder shall submit one (1) original and two (2) copies of the first and second components of its bid.
21	The address for submission of bids is Tanay Water District Conference Room, #41 F. T. Catapusan St., Tanay Rizal.
	The deadline for submission of bids is <b>02:00 PM</b> , <b>September 23, 2020</b> .
24.1	The place of bid opening is at Tanay Water District Conference Room, #41 F. T. Catapusan St., Tanay Rizal.
	The date and time of bid opening is <b>02:00 PM</b> , <b>September 23, 2020</b> .

24.2	No further instructions.
24.3	No further instructions.
27.3	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
27.4	No further instructions.
28.2	No Further Instructions.
31.4(f)	Construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the Department of Labor and Employment, and PERT/CPM or other acceptable tools of project scheduling.

# Section IV. General Conditions of Contract

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

The GCC in Section IV, read in conjunction with the SCC in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The GCC herein shall not be altered. Any changes and complementary information, which may be needed, shall be introduced only through the SCC in Section V.

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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 <u>SCC</u> 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u> 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 <u>SCC</u>, 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 <u>SCC</u> 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 <u>SCC</u>, 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 <u>SCC</u>, 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 <u>SCC</u>. 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 <u>SCC</u> 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 <u>SCC</u> 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 <u>SCC</u>.
- 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 <u>SCC</u>, 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 SubClause 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 nonexecution 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

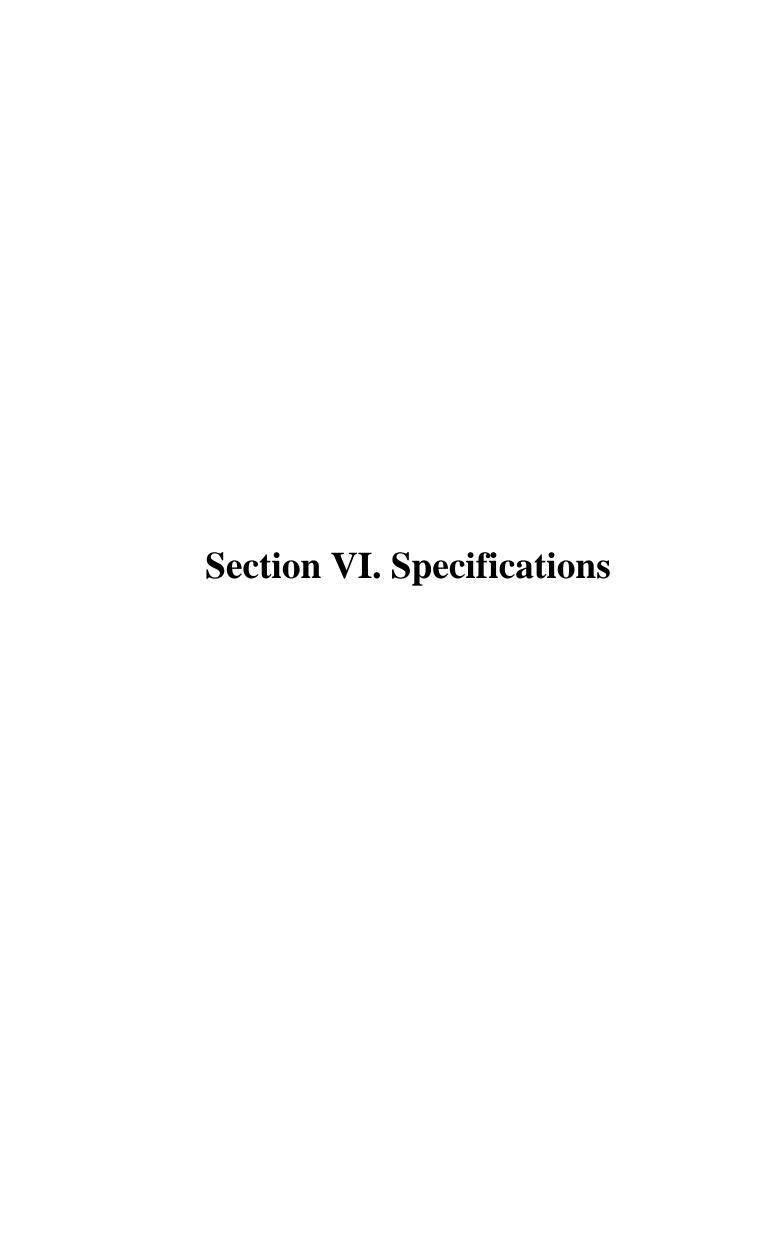
- 51.1. If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the **SCC**.
- 51.2. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the <u>SCC</u>, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative shall withhold the amount stated in the <u>SCC</u> from payments due to the Contractor.

# Section V. Special Conditions of Contract

# **Special Conditions of Contract**

GCC Clause	
1.17	The Intended Completion Date is 100 working days
	NOTE: The contract duration shall be reckoned from the start date and not from contract effectivity date.
1.22	The <b>Procuring Entity</b> is Tanay Water District.
1.23	The <b>Procuring Entity's Representative</b> is Mr. Emmanuel C. Catolos.
1.24	The <b>Site</b> is located at
	Tanay Public Market – Sitio Pasipit Brgy. Plaza Aldea to Pastor Santos St. Brgy. Wawa, Tanay, Rizal.
1.28	The <b>Start Date</b> shall be within fourteen (14) calendar days upon of receipt of the Notice To Proceed (NTP) by the Contractor or its authorized representative.
2.2 5.1	The Works consist of  Concrete Pavement Cutting Concrete Pavement Breaking and Hauling Excavation of Trenches Sand Bedding Pipe Laying (HDPE Pipe) Works Pipe Bridge Crossing Works Backfilling of Trenches Compaction of Trenches Leak, Pressure and Disinfection Interconnection Works Tapping Works Installation of Fire Hydrant Restoration Works (Pavement) Installation of Steel Walkway and Railings No further instructions.  The Procuring Entity shall give possession of all parts of the Site to the
	Contractor
6.5	The Contractor shall employ the following <b>Key Personnel:</b> Project Engineer  Foreman  NOTE: The names of the Key Personnel and their designation shall be filled out by winning contractor prior to contract signing.
7.4(c)	No further instructions.
7.7	No further instructions.
8.1	No further instructions.
10	No further instructions.
12.3	No further instructions.

12.5	Two (2) years.
13	No additional provision.
18.3(h)(i)	No further instructions.
21.2	The Arbiter is:
	CONSTRUCTION INDUSTRY ARBITRATION COMMISSION
29.1	No day works are applicable to the contract.
31.1	within ten (10) calendar days
31.3	The period between Program of Work updates is fifteen (15) days.
	The amount to be withheld for late submission of an updated Program of Work is 25% of the amount of the progress payment being billed.
34.3	The Funding Source is the Corporate Fund of Tanay Water District.
39.1	Advance payment not exceeding 15% of the Contract Price upon request.
40.1	Materials and equipment delivered on the site but not completely put in place shall not be included for payment.
51.1	The date by which "as built" drawings are required is NOT LATER THAN 2 WEEKS AFTER THE COMPLETION OF THE PROJECT.
51.2	The amount to be withheld for failing to produce "as built" drawings by the date required is 1% of the Contract Price.



**Achievers** 

#### STANDARD TECHNICAL SPECIFICATION

**FOR** 

# Proposed Construction / Installation of 100mmØ HDPE Pipe Distribution Line and 100mmØ Spiral Welded Steel Pipe (Bridge Crossing)

**LOCATION** 

Tanay Public Market - Sitio Pasipit, Brgy.
Plaza Aldea to Pastor Santos St. Brgy.
Wawa, Tanay, Rizal

MARCH 2020 REVISION 00

#### 1. GENERAL CONDITIONS

#### 1.1 Scope

This Standard Technical Specification details requirements for the Construction / Installation of 100mmØ HDPE Pipe Distribution Line and 100mm Ø Steel Pipe Bridge Crossing from Public Market to Sitio Pasipit, Brgy. Plaza Aldea, Tanay, Rizal.

The main items of work to be constructed includes are the following:

- a) Excavation for all structures and pipework.
- b) Supply and installation of pipe and tubing works and fittings.
- c) Compaction of backfilled trenches.
- d) Restoration of all excavated areas.
- e) Acceptance testing of pipework.

#### 1.2 Interpretation, Definitions and Abbreviations

Unless specifically stated otherwise, construction/installation of 100mm ØHDPE Pipe and 100mmØ Steel Pipe Bridge Crossing includes all functions described in this Standard Technical Specification and the provision of any minor materials or services which are not described but are reasonably necessary to provide an excellent flow of water and to prevent leaks and very low pressure.

For the purposes of this Standard Technical Specification, except where the context requires otherwise:

#### 1.2.1 Owner

The word "Owner" refers to the Water District named in the Contract Documents.

#### 1.2.2. Administration

The word "Administration" or "TanWD" refers to the "Tanay Water District", the duly authorized for the proper implementation of the Contract, acting either indirectly, directly or through its properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

#### 1.2.3 Engineer

The word "Engineer" refers to the individual or firm authorized by the Owner to oversee the execution of this Contract, acting either indirectly, directly or through its properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

#### 1.2.4 Contractor

The word "Contractor" refers to the party entering into the Contract for the performance of the work required, its legal representative and/or its duly appointed agent.

#### 1.2.5 Subcontractor

The word "Subcontractor" refers to any person, firm, or corporation entering into agreement with the Contractor for the performance of any part of the Contractor's obligation under the Contract.

#### 1.2.6 Contract

The word "Contract" refers to the Contract Documents and shall include the Basic Contract entered into by the Owner and the Contractor for the performance of the work described in the Specifications and shown on the Drawings, together with the Invitation for Bids, Information for Bidders, Specifications, the Drawings, all addenda issued by TanWD with respect to the foregoing prior to the opening of bids and all change orders issued by the Owner and signed by the Contractor pertaining to the contract after the same has been awarded.

#### 1.2.7 Specifications

The word "Specifications" refers to the General Conditions, Special Provisions and the Standard Technical Specifications of the Contract, together with all addenda and change orders issued with respect thereto.

#### 1.2.8 Drawings

The word "Drawings" or "Contract Drawings" refers to those drawings accompanying the Specifications and subsequently approved drawings, which show the location, nature, extent, and form of the work, together with applicable detail.

#### 1.2.9 Work

The word "Work" refers to the labor, materials, equipment, transportation and all incidental costs necessary to complete the Contract.

#### 1.2.10 Site

The word "Site" refers to the lands and other places on, under, in or through which the work is to be executed or carried out and any other lands or places provided by the Owner for the purpose of the Contract together with such other places as may be specifically designated in the Contract as forming part of the site.

#### 1.2.11 Approval

The word "Approval" refers to the concurrence in writing, including subsequent written confirmation of previous verbal approval.

#### 1.2.12 Working/ Calendar Day

The term "Working Day" refers to working days in the government service. The term "Calendar Day" refers to the days in a week, including Saturdays, Sundays and holidays. Whenever the word "day" is used, it shall refer to calendar day.

#### 1.2.13 Abbreviations

Whenever the following abbreviations are used, they shall have the meanings indicated:

ANSI American National Standards Institute

ASTM American Society for Testing and Materials

AWWA American Water Works Association, Inc.

DPWH Department of Public Works and Highways

LWUA Local Water Utilities Administration

TanWD Tanay Water District

#### 1.3 Specifications, Drawings and Discrepancies

a) The intent of these Specifications and Drawings is that the Contractor shall furnish all the required plant, labor, materials, equipment and services, unless otherwise specifically provided.

- b) These Specifications and Drawings are complementary and what is called for in one shall be as binding as is called for in both.
- c) Any discrepancies, errors, or omissions found in these Specifications or Drawings shall be reported in writing within five (5) days from discovery to the Engineer who will issue the correction in writing within the same period. The Contractor shall not take advantage of any such discrepancies, errors or omissions, but shall comply with any corrective measures regarding the same prescribed by the Engineer.

#### 1.3.1 Shop Drawings

- Whenever called for in these Specifications or on the Drawings, or where required by the Engineer, the Contractor shall furnish TanWD for review four (4) prints of each shop drawing. The term "shop drawing" as used herein shall be understood to include detail design calculations, fabrications and installations drawings, lists, graphs, operating instructions, etc. Shop drawings shall be submitted to TanWD for review/approval within ten (10) days from receipt of the Notice of Award, unless otherwise extended in writing by TanWD.
- b) All shop drawing submittals shall be accompanied by a transmittal form. Any shop drawing submittal not accompanied by such a form, or where all applicable items on the form are not completed, will be returned for re-submittal. The Contractor may authorize a material or equipment supplier to deal directly with TanWD with regard to shop drawings; however, ultimate responsibility for the accuracy and completeness of the information contained in the submittal shall remain with the Contractor.
- within seven (7) calendar days after the receipt of said prints, TanWD will return prints of each drawing to the Contractor with his comments noted thereon. Whenever a resubmittal is required, the Contractor shall make a complete and acceptable submittal to TanWD within seven (7) days from receipt of the returned shop drawings. Non-compliance hereof will give rise to the Administration's right to either: (a) cancel the award; or (b) withhold the money due the Contractor to cover additional costs of the Engineer's review beyond the second submission. Such failure may be considered a factor against Contractor's competence in future biddings to be conducted by the Administration.
- d) If two (2) prints of the drawings are returned to the Contractor marked "APPROVED", formal revision of said drawings will not be required.
- e) If two (2) prints of the drawings are returned to the Contractor marked "APPROVED WITH COMMENTS", formal revision of said drawings will not be required.
- f) If one (1) print of the drawings is returned to the Contractor marked "NOT APPROVED", the Contractor shall revise the said drawings and shall resubmit four (4) copies of said revised drawings to TanWD.

g) Fabrication of an item shall not be commenced before TanWD has reviewed/examined the pertinent shop drawings and returned copies to the Supplier marked either "APPROVED" or "APPROVED WITH COMMENTS". Revisions indicated on shop drawings shall be considered as changes necessary to meet the requirements of the Contract Drawings and Specifications and shall not be taken as the basis of claims for extra work. The Contractor shall have no claim for damages or extension of time due to any delay resulting from the Contractor having to make required revisions to shop drawings (unless reviewed by TanWD of said drawings is delayed beyond a reasonable period of time and unless the Contractor can establish that TanWD's delay in review actually resulted to a delay in the Contractor's Construction Schedule). The review of said drawings by TanWD will be limited to checking for general agreement with the specifications and drawings, and shall in no way relieve the Contractor of the responsibility for errors or omissions contained therein nor shall review operate to waive or modify any provision contained in the Specifications or Contract Drawings. Fabricating dimensions, quantities of material, applicable code requirements shall be the Contractor's responsibility.

#### 1.3.2 Catalog Data

- a) For original submittal and each subsequent resubmittal required, submit 3 copies of catalog data.
  - b) Manufacturer's Catalog, Product, and Equipment Data: Certified and include material type, performance characteristics and similar data.
    - b.1 Indicate catalog, model, and serial numbers representing specified equipment.
    - b.2 Submit complete component information to verify specified required items.

#### 1.3.3 Method of Construction

- For original submittal and each subsequent resubmittal required, submit 3 copies of data detailing method of construction.
- b) When Water District specifies or directs, submit proposed method of construction for specific portions of Work.
  - b.1 Include detailed written description of phases of construction operation to fully explain to Water District proposed method of construction.
  - b.2 If required by Specifications, submit working drawings to supplement description.
  - c) Review will follow the process herein and shall not relieve the Water District from responsibility for fulfillment of the requirements of the Contract Documents. Contractor assumes risks associated with proposed method.

After review, submit requests for modifications in detail, including justification for them. Do not implement modifications prior to the Water District's review.

# 1.3.5 Reference to Standard or Publications

Any reference in the Specifications or Drawings to any specification, standard or publication of any organization shall, in the absence of a specific designation to the contrary, be understood to refer to the latest edition of the specification, standard or publication in effect as of the date of advertising the work. Internationally accepted standards equal to or better than specified standards or specifications are acceptable.

# 2. REFERENCED DOCUMENTS

# 2.1 Local Water Utilities Administration Standard Drawings

The Local Water Utilities Administration standard drawings are deemed to form part of this Standard Technical Specification.

G-7	Below Ground Culvert Crossing Details
G-8	Typical Trench Detail, Horizontal Concrete Thrust Blocks, Typical Concrete Thrust Blocks, Concrete Anchor Block and Double Trench in Paved Roads
G-9	Service Connection Details, Valves and Fire Hydrant Details
G-10	Typical Sections of Grouted Riprap, Retaining Wall, Gabion/Mattress

# 3. GENERAL CONSTRUCTION

#### 3.1 General

Replace the existing 100mm (4in)  $\emptyset$  pipeline and re-tap the water service connections with the lines, locations and using the materials shown on the Drawings and in the Specification and to the details shown on the relevant Tanay Water District Standard drawings listed in clause 1.3.

#### 3.2 Order of Construction

Undertake and complete all work including fittings before connection is made to the existing water supply system.

# 4. SELECTED SUBCONTRACTORS

# 4.1 Works

The Contract includes the following Selected Subcontract work:

Selected Subcontract No 1 Supply and replacement of AC pipes to HDPE pipe, Hydrant and fittings.

Selected Subcontract No 2 Civil works.

# 4.2 Subcontractors / Suppliers

Select subcontractors / suppliers from Local Water Utilities Administration preferred lists which can be accessed on their website at www. lwua.gov.ph.

# 5. TECHNICAL SPECIFICATION OF MATERIALS

## 5.1 General

Obtain all materials necessary for construction of the Works from approved sources. Comply with all recommendations of the manufacturers regarding the storage and handling of the materials. Undertake all handling, transport and storage such that no damage occurs to the materials including coatings and linings.

Any damaged material is liable to be rejected. Do not use any rejected material in the Works and remove it from the Site at the earliest opportunity.

#### 5.2 On-Site Stockpiles

Only store sufficient materials on site as are necessary to allow timely and efficient progress of the work. Locate stockpiles of excavated or imported material where they cause no interference to the public, drainage routes or vehicular or pedestrian traffic. Clear lines of sight for drivers must not be obstructed. Do not stack materials against structures, fences, trees or other property improvements. Leave a clear path at least 600 mm wide between the edge of any excavation and the inner toe of any stockpile.

#### 5.3 Earthwork

#### 5.3.1 General

The Contractor shall perform all earthworks required and shown on the drawings.

#### 5.3.2 Excavation

- a. Keep the extent of excavation to the minimum possible to allow efficient construction of the Works while meeting the minimum requirements shown on the Drawings and the relevant Standard Drawings.
- b. Keep pipe trench within the maximum width equal to the outside diameter of the pipe plus 600mm (24in) except when otherwise shown or ordered by the Engineer.
- c. Do not commence any excavation until all materials necessary to make the excavation safe are on site and available for use. This includes any necessary fencing and barriers as well as excavation support systems.
- d. Remove and dispose all excess excavated material at his own expense in a place and a manner approved by the Engineer.

# 5.3.3 Backfill

a. Backfill shall not be dropped directly upon any structure or pipe. Materials used for backfill shall be selected material, free from grass, roots, brush, or other vegetation, or rocks having maximum dimension larger than 150 mm (6 in.). Material placed within 150mm (6 in.) of any structure or pipe shall be free from rocks or unbroken masses or earthly materials having maximum dimension larger than 75 mm (3 in.).

#### 5.3.4 Granular Bedding

#### a. General

This work shall consist of furnishing, spreading and compacting graded granular base material in all trenches, slab on fill, column and wall footing and roadways in accordance with the Specification and Drawings.

# b. Material Requirement

Material for granular bedding shall consist of natural or processed aggregates such as gravel sand or stone fragments. It shall be clean and free from organic matters, lumps of clay and other deleterious substances. The material shall be of such nature that it can be compacted readily under watering and rolling to form a firm, stable base.

#### 5.3.5 Compaction

- a. Compact fill material by manual or mechanical tampers. Flooding of the fill is not permitted.
- Place and compact backfill in even layers on either side of structures to avoid differential loading.
- c. Keep all dewatering systems operating during backfilling so that no fill material is placed or compacted under water. At all times ensure that the pipelines and structures are not damaged or moved during placement and compaction of fill.

#### 5.4 Concrete Works

#### 5.4.1 Materials

#### a. Cement

Cement shall conform with the "Standard Specification for Portland Cement" (ASTM C-150) and shall be Type I.

# b. Concrete Aggregates

- Concrete Aggregates shall be well graded, clean, hard particles of gravel or crushed rock conforming with the "Standard Specifications for Concrete Aggregates" ASTM C-33.
- 2. Use 3/4" size of aggregates for reinforced concrete.

#### c. Water

Water used in mixing concrete shall be clean and free from injurious amounts of oils, acids, alkali, organic materials, or other substances that may be deleterious to concrete or steel.

#### d. Reinforcing Steel

All reinforcing steel bars used shall be of deformed type, new, free from rust, oil, defects, greases or kinks and with a minimum grade equal to 275 MPa unless otherwise shown on the plans.

# 5.4.2 Concrete Proportion and Mixing

a. The minimum cement content for 20.68MPa (3000 psi) concrete shall be 8.39 sacks per cubic meter of concrete (Class A) see Table 1-1.

TABLE 1-1 Concrete Proportion

Mixture Class	Proportion	Cement (40 kg.)	Sand (m³)	Gravel (m³)
AA	1:1½:3	12.0	0.50	1.00
А	1:2:4	9.0	0.50	1.00
В	1:2½:5	7.5	0.50	1.00
С	1:3:6	6.0	0.50	1.00

b. No hand mixing shall be allowed, except in emergency such as mixer breakdown during concreting operations and this shall stop as shown as soon as the pour is completed. All concrete shall be machine mixed for at least one and one-half (1 ½) minutes after all materials, including water, are in the mixing drum.

#### 5.4.3 Preparation of Surfaces for Concreting

- a. Earth surfaces shall be thoroughly wetted by sprinkling prior to the placing of any concrete, and these surfaces shall be kept moist by frequent sprinkling up to the time of placing concrete thereon. The surface shall be free from standing water, mud and debris at the time of placing concrete.
- b. When the placing of concrete is to be interrupted long enough for the concrete to take a set, the working face shall be given a shape by the use of forms or other means that will secure proper union with subsequent work, provided that construction joints shall be made only where approved by the Engineer.

# 5.4.4 Placing Concrete

- a. Concrete which upon or before placing is found not to conform with the requirements specified herein shall be rejected and immediately removed from the work. Concrete which is not placed in accordance with these specifications, or which is of inferior quality, as determined by the Engineer, shall be removed and replaced by and the expense of the Contractor.
- b. Placing of concrete with a free drop or fall more than 1.20 meters (4 ft) shall not be allowed, except when approved by the Engineer and when approved sheet metal conduits or pipes.

#### 5.5 Piping

# 5.5.1 General

- a. The Contractor shall furnish and install all pipes, fittings, closure; pieces, supports, bolts, nuts, gaskets, jointing materials, and appurtenances as shown and specified, and as required for a complete and workable piping system. Shop drawings of all piping systems shall be furnished in accordance with Section 1.3.
- b. All exposed piping shall be adequately supported with devices of appropriate design. Where details are shown, the supports shall be placed as indicated; provided that support for all piping shall be and adequate regardless of whether or not supporting devices are specifically shown.

# 5.5.2 High-Density Polyethylene (HDPE) Pipe

#### a. Materials

The extrusion compound shall be PE 3408.

All compounds used shall be virgin plastic except that clean rework material from the manufacturer's own tubing production may be used so long as the original was virgin material. The pipe shall meet the requirements of the National Sanitation foundation (NSF) for potable water use as tested by (he National Science and Technology or other approved testing laboratories and shall be made from non-toxic, non-less based plasticizer approved by the Engineer.

#### b. Dimension

SDR 11, Pressure rating of 160 psi

NOMINAL DIAMETER	OUTSIDE DIAMETER	MINIMUM WALL THICKNESS
(mm)	(mm)	(mm)
75	90	8.18
100	110	10
150	160	14.55
200	225	20.45

# c. Rating

All service tubing shall be rated for use with water at 23.0°C (73.40°?) and at a minimum working pressure of 1.1 MPa (160 psi). Other requirements shall be in accordance with ASTM D2737.

#### d. Testing

Inspection and testing shall be conducted by the manufacturer in accordance with ASTN4 U1248 and D2737 as follows:

- Sustained pressure test based on fiber stress of 9.10 MPa for PE3306 and 11.0 Ml'a for PB 3408 at 23°C.
- Minimum burst pressure test based on fiber stress of 17.4 MPa at 23°C.

# e. Burst Pressure Requirement

The minimum burst pressure requirement for polyethylene pipe when supplied under these specifications shall be 4.3 MPa (650 psi) when determined in accordance with ASTM D1599.

The time of testing of each specimen shall be between 60 and 70 seconds.

Other requirements with respect to workmanship, mechanical properties and testing shall be in accordance with ASTM D2339.

# f. Markings

All tubing shall be clearly marked at intervals of not more than 0.6 m with nominal size, type of materials (PE 3306. PE 3406 or PE 3408), Standard Dimension Ratio (SDR 9 or SDR 11) manufacturer's trade name and production code, and the seal of approval from an accredited testing laboratory.

#### g. Installation

All PE pipes when supplied under these specifications shall be joined by the following methods:

#### 1. Butt-Fusion

When the pipes supplied under these specifications are installed and joined by this method, the work shall be carried out only by well-qualified personnel who adhere strictly to prescribed working conditions, using tools and procedures recommended by the manufacturer and approved by the Engineer.

- a. Equipment The equipment needed shall be as described in ASTMD2657.
- b. General Procedure The following procedure shall be followed when making a butt-fusion joint:
  - 1. Wipe each pipe-end, inside and out to remove dirt, water, grease, and other foreign material.
  - 2. Square the end of each pipe section to be fused using a facing tool. Remove cuttings and burrs from pipe ends.
  - Check line-up of pipe-ends in fusion machine to see that pipe ends meet squarely and completely over the entire surface to be fused. Two clamps should be used on each end of pipe to be fused for sizes 100 mm and above.
  - 4. Insert the heater plate between the aligned pipe ends. Bring and hold the pipe ends in contact with the heater plate. Maintain contact and allow pipe to heat and soften until a bead of molten plastic roots back from the ends. This bead will be about 1.5 mm to 5.0 mm back from the end of the pipe depending on size. Soften approximately 1.5 mm on all sizes up to 75 mm. On 75 mm to 150 mm heat to 3 mm. Softening can be judged by the appearance of the pipe end as the material softens.

Both surfaces of the heater plate shall be clean and the temperature maintained at 246"C-260"C (475"F to 500°F).

- Carefully move the pipe ends away from the heater plate and remove the plate. If the softened material sticks to the heater plate, discontinue the joint. Clean heater plate, re-square pipe ends and start over.
- 6. Bring the heated pipe ends together with the specified pressure to form a uniform double bead about 3 mm to 5 mm wide around the entire circumference of the pipe.
- 7. Allow the joint to cool and solidify while maintaining the pressure for the specified time. Inspect the joint for a uniform nonporous appearance. If the joint appeared faulty, cut the joint out and repeat the procedure.
- h. Pressure and Leakage Testing and Disinfection

The Contractor shall furnish all equipment, labor and materials, including taps, valves and bulkheads as required and exclusive of water and water meter for testing and proper disinfection of the pipelines and steel reservoir. The water and any water meter used for testing shall be furnished by the Owner, but the Contractor shall provide the facilities necessary to convey the water from the Owner-designated source to the points of use. All testing and chlorinating operations shall be done in the presence of the Engineer.

#### 1. Pipeline Testing

All pipelines shall be thoroughly flushed out with water prior to testing. The Contractor shall test the pipeline in sections prior to permanent resurfacing after the trench is backfilled, but with joints exposed for examination except in heavily traveled roadways. Maximum length of test sections shall be 500 meters for distribution mains and 1.000 meters for transmission mains unless otherwise approved by the Engineer. Where test sections are approved which exceed the above maximum lengths, the allowable leakage for the lengths in excess of the maximum allowable shall be reduced by fifty percent (50%). The pipeline shall not be filled with water until the following curing periods have elapsed.

The pipeline shall be prepared for testing by closing valves when available, or by placing temporary bulkheads in the pipe and filling the line slowly with water. During the filling of die pipe and before the application of the specified test pressure, all air shall be expelled from the pipeline. To accomplish this, taps shall be made, if necessary, at points of highest elevation and after completion of the test, and taps shall be tightly plugged unless otherwise specified. After the line or section thereof has been completely filled, it shall be allowed to stand under a slight pressure for a minimum of forty eight (48) hours to allow the escape of air from any air pockets and to allow the pipe or mortar lining to absorb as much water as possible.

During this period, all exposed pipes, fittings, valves, joints and couplings shall be examined for leaks. If found to be cracked or defective, they shall be removed and replaced by the Contractor with sound material at his own expense. The pipeline shall then be refilled and all bulkheads, joints and connections shall be examined for leaks. If any are found, these shall be stopped. The test shall consist of holding the test pressure on each section of the line for a period of two (2) hours. The lest pressure at the lowest point shall be 690 KPa or 1.0 MPa according to the class of pipe installed, class 100 or class L50, and as approved by the Engineer, pressure gauges shall also be provided at all ends of the section tested. The water necessary to maintain the pressure shall be measured through a meter or by other means satisfactory to the Engineer. The leakage shall be considered the amount of water entering the pipeline during the Iwo-hour test period. The allowable leakage for cast iron pipe or ductile pipe shall not exceed the values listed in Table 3 of the AVVWA Standard for Installation of Cast Iron Water Main (AWWA C600). All other types of pipes shall have an allowable leakage not exceeding 1.85 L/mm/ (20 gal/in.) of diameter of pipe per kilometer (mile) per day. Should any test of a section of pipeline disclose joint leakage greater than that permitted, the Contractor shall, at his own expense, locate and repair or replace the defective pipe, fitting, joint, coupling or other appurtenance. The test shall be repeated until the leakage is within the permitted allowance.

Closure pieces between newly installed and existing mains shall be tested after the pipe has passed the pressure and leakage lest specified above. The test shall include subjecting the joint to a pressure of 345 Pa (50 psi) for a period of five (5) minutes and visually checking for leakage. All visible leaks shall be repaired by the Contractor at no expense to the Owner.

# 2. Pipeline Disinfecting

Before being placed in service, and before certification of completion by the Engineer, all new domestic water mains or extension to existing systems, or valved section of such extension or any replacement in the existing water system shall be disinfected with chlorine in accordance with AWWA Standard C601 "Standard for Disinfecting Water Mains".

Disinfection shall be completed not more than three (3) days prior to placing the pipeline into service unless otherwise approved by the Engineer and care shall be taken to prevent recontamination of the pipeline. A bacteriological test shall be taken, at the expense of the owner, prior to acceptance of the pipeline disinfected.

The amount and concentration of chlorine solution applied shall be such as to provide a dosage of not more than fifty milligrams per liter (50 mg/L) and shall be introduced into the lines as directed by the Engineer. After a contact period of twenty-four hours, the chlorine residual of samples taken at service connections or sampling points along the entire length of the pipelines shall not be less than twenty-five milligrams per liter (25 mg/L) as determined by the Engineer. The systems shall then be flushed with clear water until the residual chlorine is not greater than 0.75 mg/l but not less than 0.20 mg/L. All valves and appurtenances in the pipeline being disinfected shall be operated several times during the chlorine contact periods.

The preferred point of application of the chlorinating agent is at the beginning of the pipeline extension or any valved section and through a corporation stop inserted on the top of the laid pipes.

Should the initial treatment fail to result in the conditions stipulated above, the chlorination procedures should be repeated until satisfactory results are obtained.

Where connections are to be made to existing water mains, HTH shall be added at points of interconnections as directed by the Engineer.

# 5.5.3 Spiral Welded Steel Pipe (cement coated) 4"Ø x 6m

a. Pipe design

Design parameters shall be as follows; For Cement-lined Steel Pipes Class 150

Nominal Diameter (mm)	Steel Cylinder Mortar coated	Thickness (mm) Surface painted
300 and under	3.40	4.70
350 - 500	4.70	6.00
600 - 700	6.00	7.90
750 - 900	7.90	9.50
1000 - 1200	9.50	11.10

Outside diameters of Cement – lined/ cement coated, coal-tar coated and surface painted steel pipes.

Nominal Diameter (mm)	Outside Diameter (mm)	Nominal Diameter (mm)	Outside Diameter (mm)
100	114.30	600	661.60
150	168.30	700	763.20
200	219.10	750	817.80
250	273.10	800	868.60
300	323.90	900	970.20
350	391.00	1000	1075.00
400	441.80	1100	1176.60
450	506.60	1200	1278.20
500	557.40		

i. Lining

The mortar for pipe lining shall consist of one part cement to not more than three (3) parts sands by weight. The cement to not more than three (3) parts sand by weight. The cement mortar lining shall be applied by the centrifugal method or by a method obtaining equivalent results. The process used in the application of the lining shall produce a smooth dense durable surface, free from pockets, voids, over-sanded areas, blisters, and excessively cracked areas. Except where otherwise specified or shown, lining thickness shall be as follows with a tolerance of plush or minus twenty-five percent (25%).

Nominal Pipe Diameter	Lining Thickness
Under 300mm	6mm
300-400mm	13 mm
Over 400mm	20mm

# 5.5.4 PE (Polyethylene) Plastic Tubing

a. Materials

The extrusion compound shall either be Grade 33, Class C, or Grade 34, Class C (PE 3306 or PE 3406) as defined by ASTM D1248 or polyethylene pipe extrusion

compound PE 3408 according to the Plastic Pipe Institute (PPI) with hydrostatic design stressor5.5 MPa (800psi).

All compounds used shall be virgin plastic except that clean rework material from the manufacturer's own tubing production may be used so long as the original was virgin material. The pipe shall meet the requirements of the National Sanitation foundation (NSF) for potable water use as tested by (he National Science and Technology or other approved testing laboratories and shall be made from non-toxic, non-less based plasticizer approved by the Engineer.

#### b. Dimensions

Polyethylene tubing shall conform with either of the following dimensions depending on the type of extrusion compound used as stipulated above:

# 1. Extrusion Compound PE 3306 and PE 3406 (SDR 9)

Nominal F	Nominal Pipe Size Outside Diameter		Min.Wall Thickness	Tolerance (t)
(mm)	(in.)	(mm)	(mm)	(mm)
20	1/2	20	2.3	0.5
25	3/4	25	2.8	0.5
32	1	32	3.6	0.6
50	1-1/2	50	5.6	0.8

# 2. Extrusion Compound PE 3408 (SDR 11)

Nominal Size		Outside Diameter	Min. Wall Thickness	Tolerance (t)		
(mm)	(in.)	(mm)	(mm)	(mm)		
20	1/2	20	1.9	0.3		
25	3/4	25	2.3	0.5		
32	1	32	2.9	0.6		
50	1-1/2	50	4.6	0.7		

# c. Rating

All service tubing shall be rated for use with water at  $23.0^{\circ}$ C ( $73.40^{\circ}$ ?) and at a minimum working pressure of 1.1 MPa (160 psi). Other requirements shall be in accordance with ASTM D2737.

#### d. Marking

All tubing shall be clearly marked at intervals of not more than 0.6 m with nominal size, type of materials (PE 3306. PE 3406 or PE 3408), Standard Dimension Ratio (SDR 9 or SDR 11) manufacturer's trade name and production code, and the seal of approval from an accredited testing laboratory.

#### e. Testing

Inspection and testing shall be conducted by the manufacturer in accordance with ASTN4 U1248 and D2737 as follows:

- Sustained pressure test based on fiber stress of 9.10 MPa for PE3306 and 11.0 Ml'a for PB 3408 at 23°C.
- Minimum burst pressure test based on fiber stress of 17.4 MPa at 23°C.

#### f. Installation

The installation and method of end connections of PE plastic tubing shall be compression type as shown on the Drawings and as specified in Section 23.11. All procedures and tools used shall comply with the recommendations of the manufacturer and be approved by the Engineer.

#### 5.5.5 Service Line

#### a. Materials

The service line piping 50 mm (2 in.) and smaller shall be made of polyethylene tubing as specified herein and in the sizes shown on the Drawings. Service piping have diameter larger than 50 mm. (2 in.) shall be constructed of the same materials approved for water mains of similar sizes.

Small tubing-size service line shall-have, plastic or brass fittings as shown on the Drawing, using compression type connection and stainless steel inserts as shown.

Plastic fittings shall be injection-molded, compression type and suitable for use with Polyethylene (PE) tubing conforming in dimensions and tolerances to ISO 3607.

Plastic service connection fittings shall be molded from Acrylonitrile-Butadine-Syrene (ABS), Polypropylene (PP), Polyvinyl Chloride (PVC), Polyethylene (PB). or other suitable materials. The compounds used in the manufacture of plastic fittings shall be virgin and shall be made from non-toxic materials and shall be certified as suitable for potable water by the Food and Drugs Administration (FDA) or any accredited testing laboratories.

All plastic fittings shall meet the requirements of the National Testing Laboratories for Potable Water and shall be designed to hold a working pressure of I.I MPa and resist a minimum pull-out force of 20 kg.

Brass service connection fittings shall be manufactured according to AWWA Standard C-800 "Threads for Underground Service Line Fittings" and shall be similar in quality to those manufactured by Mueller Co., Decatur, IM, U.S.A., or Ford Meter Box Company. Inc., Wabush, Indiana, U.S.A.

The fittings shall be clearly and neatly finished and free from burrs or other defects likely to damage or scour the pipe, and the bore shall be free from irregularities, which restrict the free flow of fluid. The internal and external surfaces of fittings shall be clean and free from grooves, pinholes, or other defects likely to affect the performance and service of the system.

The fittings shall be designated by the sizes of the connecting pipes/tubing.

#### b. Testing and Acceptance

Inspection and testing of plastic fittings shall be done by the manufacturer in accordance with ASTM 2146; D1598 and L)1598 for PP, ASTM 2581 and D2666 for PB, ASTM D2239 for Pb, AWWA C900 for PVC as fitting materials. For materials other than those mentioned, manufacturer shall provide the specific existing ASTM, AWWA, ISO, PSA or other internationally accepted standards used to identify procedures by which lest can be conducted and results can be evaluated.

All plastic fittings shall be free of cracks or other injurious defects and shall be smooth and clean before inspection.

For every 100 pieces of any size of fittings, at least three pieces shall be chosen at random and subjected to a pressure of 1.1 MPa at 23°C. If any sample tested cracks or leaks, the lot represented will be rejected.

#### c. Installation

All workmanship shall be in accordance with the manufacturer's recommendations and approved by the Engineer. Service taps for plastic service lines shall be made between 45 degrees from the top of the pipe, and the tubing shall be laid in a serpentine fashion along the service trench bottom to resist pull-out.

Where service lines are located under the roadbeds or in stony or rocky ground, sand bedding shall be provided. The sand bedding shall be of adequate thickness or provide a depth of cover of 0.15m.

Unless otherwise directed, all service lines shall be installed prior to the hydrostatic test of the water main, and they shall be tested with pressure test of the water main. Each stopcock valve shall be operated to thoroughly flush the service and remove any accumulated air present prior to the hydrostatic test.

#### 5.5.6 Service Saddle

#### a. Material

Where saddles arc required as shown on the Drawings, they shall be constructed of one or a combination of the following materials and complying with the requirements as hereunder indicated.

Cast Iron

#### b. Manufacture

Service saddles shall be supplied either with:

- 1. Clamp or single strap of at least 50 mm (2 in.) wide, bolted on each side, or bolted one side and hinged on other side. Bolts and nuts shall be 18-8 stainless steel, brass or bronze as specified above.
- 2. Double or single strap, as shown on the Drawings, each with width not less than 20 mm (¾ in).
- Strap or clamps shall be made of any of the materials listed above or of 18-8 stainless steel.

All parts of the service saddle including the clamp or strap shall comply with the following minimum thickness requirements:

Pipe Nominal Diameter	Thickness
50 mm	8 mm
100 mm	8 mm
150 mm	10 mm
200 mm	12 mm
250 mm	15 mm
300 mm	15 mm

Saddles shall be shaped to the various outside pipe diameter to which they are to be fitted and shall be

provided with an approved resilient neoprene rubber gasket with a minimum bearing width of 12 mm (!/2 in.). The tapping thread shall be at least 30 mm deep and drilled in accordance with iron pipe (I.P.) thread dimensions.

#### 5.6 Valves

#### 5.6.1 General

- a. The Contractor shall furnish and install all valves as specified herein and as shown on the Drawings. All valves shall be new and of current manufacture.
- b. Flanged valves may be plain faced with serrated gasket surface or raised. Flanges of valves for water working pressure of 1.2 MPa (175 psi) or less shall be faced and drilled to 125-lb American Standard dimensions; flanges of valves for water working pressures greater than 1.2 MPa (175 psi) shall be faced and drilled to 250-lb American Standard dimensions.
- c. Each valve body shall be tested under the test pressure equal to twice its design water working pressure.

## 5.6.2 Gate Valves

## a. Valves

This section applies to gate valves 50 mm (2 in.) through 400 mm (16 in.) in size. All valves shall conform with the following standards; "Standard for Resilient Seated Gate Valves" (AWWA C509) and "Standard for Metal Seated Gate Valves" (AWWA C500). Gate Valves shall be cast iron bodied, with resilient seats applied to the body or gate for resilient, or for metal discs shall be cast iron with bronze disc rings, and the seat ring shall be bronze and replaceable. The, valve shall be non-rising stem with a minimum of two "o" ring seals (at least one above the stem collar), or rising stem when shown on the Drawings. The valves shall have a 50 mm (2 in.) square operating nut with a cast arrow showing direction in which the nut is to be turned to open tire valve. Valves shall be constructed to permit the replacement of the "O" rings above the stem collar under full working water pressure with the valves in the full open position.

- b. Testing Requirements
- 1. Operation Test

Each valve shall be operated in the position for which it was designed to ensure free and perfect functioning of all parts in the intended manner. Any defects of workmanship shall be corrected and the test repeated until satisfactory performance is demonstrated.

#### 2. Shell Test

A hydrostatic test pressure equal to twice the rated working pressure of the valve shall be applied to the body with the gate in the open position. The test shall show no leakage through the metal, flanged joints, or stem seals.

#### 3 Seal Test

A test shall be made at rated working pressure to prove the sealing ability of each valve from both directions of flow. The test shall show no leakage through the metal, pressure containing joints, or past the seat.

#### 4. Hydrostatic Test

One prototype valve of each size and class of a manufacturer's design shall be hydrostatically tested with twice the specified rated pressure applied to one side of the gate and zero pressure on the other side. The test is to be made in each direction across the gate. Under this hydrostatic test, the manufacturer may make special provisions to prevent leakage past the seats. No part of the valve or gale shall be permanently deformed by the test.

# 5. Torque Test

A prototype of each size should be overtorqued in the closed and open positions to demonstrate no distortion of the valve stem or damage to the resilient seal as evidenced by failure to seal at rated pressure. The applied torque shall be 250 ft-lb for 3 and 4 NRS valves, and 350 ft-lb for 6, 8, 10 and 12 NRS valves (1.0 ft-lb = 0.736 Newton-meter = 0.66 kg-m).

# 5.7 Surface Restoration and Paving

#### 5.7.1 General

The Contractor shall furnish all materials, labor, plant, and equipment for the removal of all pavement, sidewalks, curbs and gutters, fences, poles, driveways, walks, other property, and surface structures that are necessary for the proper prosecution of the work, but only upon approval of the parties having jurisdiction thereof and of the Engineer. Unless otherwise shown, the Contractor shall restore at his own expense all properly removed or destroyed by his operation at least actual to conditions prior to work under this Contract or to the satisfaction of the property owner.

## 5.7.2 Removal of Existing Pavement

a. In cutting or breaking up street surfacing required for the performance of the work, the Contractor shall not use equipment which will damage the adjacent pavement. All concrete pavement surface to be removed shall be scored with concrete: sawing equipment; provided, that any portland cement concrete based under an asphaltic mix surface will not be required to be scored by sawing. Asphaltic concrete pavement shall be removed to clean straight lines. The Contractor shall remove the pavement and road surfaces as part of the trench excavation, and the amount removed shall not exceed the maximum width of trench for pipelines as indicated on the Drawings, unless otherwise ordered in writing by the Engineer.

The width and length of the pavement area requires to be removed for the installation of valves, valve chambers, spirals, or other structures shall not exceed the maximum linear dimensions of such structures by more than 0.30 meter on each side.

The width of the pavement area required to be remove for the installation of service connections shall not exceed the maximum width as shown on the Drawings.

b. Concrete sidewalks, curbs and gutters required to be removed in connection with performing the work under the Contract shall he cut to the nearest score marks and shall be replaced with the same kind or better material by the Contractor in conformance with the latest specifications, rules and regulations, and subject to the inspection and approval of the agency having jurisdiction.

#### 5.7.3 Restoration of Damaged Surface and Property

Except where shown on the drawings or otherwise specified, any pavement, trees, shrubbery, fences, poles or other; properly and surface, structures/which have been, damaged,, removed, or, disturbed by the Contractor, whether deliberately or through failure to carry out the requirement of the Contract Documents, municipal ordinances, or the specific directions of the Engineer, or through failure to employ usual and reasonable safeguards shall be replaced or repaired at the expense of the Contractor.

#### 5.7.4 Replacement of Disturbed Surface Structure and Private Property

Except where shown on the drawings, the Contractor shall restore all private property and surface structures removed or disturbed as a part of the work. He shall also furnish all labor and materials incidental thereto at his own expense. No payment shall be allowed for dirt road restoration.

#### 6. METAL WORKS

#### 6.1 General

- a. The Contractor shall furnish, fabricate, and install all steel and miscellaneous metal works as specified herein and as shown in the drawing. Miscellaneous metal works as specified herein and as show in the drawing. Miscellaneous metalwork is defined as all items required to be fabricated from structural steel shapes, plates, bars and their products. He shall provide the necessary labor, supervision, tools, materials, supplies, and appurtenances for the proper construction and operation of the elevated steel reservoir. The Contractor shall accomplish the work in a complete and finished manner and insure the highest quality of workmanship in accordance with the drawing and specifications and to the satisfaction of the Engineer.
- b. Structural steel straps, plates, bars and their products shall conform to the "Standard Specifications for Structural Steel" (ASTM Designation A36).
- c. Unless otherwise shown, all miscellaneous metalwork of fabricated steel shall be galvanized after fabrication in accordance with Section 5.6.3. Unless otherwise indicated stainless steel metal works shall be of Type 18-8 stainless steel. Items fabricated stainless steel shall not be galvanized.
- d. All materials to be used shall be new, previously unused, and in first class condition. Steel materials of unidentified analysis may be used provided they are tested and properly certified by a qualified testing laboratory,
- e. Painting of all steel metalwork, unless otherwise specified shall be in accordance with Division 27, "Painting and Coating".

- f. Testing and disinfecting shall be undertaken as specified in Division 25, "Pressure and Leakage Testing and Disinfecting".
- g. Shop drawing for all steel and miscellaneous metalwork shall be submitted to the Engineer for review in accordance with Section 1.3.1 "Shop Drawings".
- h. The work and equipment to be provided by the Contractor under this Contract shall conform to the U.S Standards as mentioned in the following articles or to any International Standards of equal value.
- Welding terms used in this specification shall be interpreted according to the definition given in A W S A3.0.

#### 6.2 Materials

a. Structural Shapes for use shall be produced by the open-hearth, basic oxygen, or electric-furnace process. Open or non-tubular structural shapes shall conform to ASTM A36.
 When structural shapes are fabricated from steel plates, the plates shall conform to item (b).

#### b. Plates

Plates material shall be open-hearth, electric- furnace, or basic oxygen process steel conforming to the latest revision of any of the following applicable ASTM specification: A36:

Grade A and B; A283, Grade A, B, C and D; or A573, Grade 58.

- c. Anchor Bolts, Rods and Reinforcing Steel
  - 1. The Contractor shall furnish and set all bolts, anchor bolts, rods, and reinforcing steel. Except where otherwise shown or specified all bolt, anchor bolts, washers and nuts shall be steel, galvanized after fabrication in accordance with Section 5.6.2.
  - Except as otherwise provided herein, steel for bolts, anchor bolts, and ca screws shall be in accordance with "Specifications for low Carbon Steel Externally and Internally Threaded Standard Fasteners," Grade B (ASTM Designation A307), or "Specifications for Carbon Steel Bars Subject to Mechanical Property Requirements" (ASTM Designation A306) or threaded parts of ASTM A36 and shall be free cutting steel, and (2) the nuts shall be capable of developing the full strength of the bolts and cap screws shall have hexagons heads, and nuts shall be heavy Hexagons Series.
  - 3. Threads of galvanized bolts and nuts shall be formed with suitable taps and dies such that they retain the normal clearance after-hot dip galvanizing.
  - 4. Unless otherwise shown, all bolts, anchor bolts, and nuts which are buried, submerged, or inside a covered hydraulic structure shall be Hot-Dip galvanized as per TS-20 and then coated with two coats of coal tar epoxy after installations.

#### 6.3 Galvanizing

All structural steel plates, shapes, bars, and fabricated assemblies required to be galvanized shall, after the steel has been thoroughly cleaned of rust and scale, be galvanized in accordance with the "Specification for Zinc (Hot- Galvanized) Coatings on products Fabricated from Rolled, Pressed and Forged Steel Shapes, Plates, Bars and Strip" (ASTM A123). Any galvanized part that becomes warped during the galvanizing operation shall be straightened. Bolts, anchor bolts, nuts and similar threaded fastener, after being properly cleaned, shall be galvanized in accordance with the "Specifications for Zinc Coating (Hot –Dip) on Iron and Steel Hardware" (ASTM A153). Field repairs to galvanizing shall be made using "Galvano", Galvo-Weld", or approved equal.

#### 6.4 Shop Fabrication – Steel Works

a. General

All work required of the Contractor shall be of the highest quality workmanship. Laying out of shop-fabricated material shall be done only by experienced workmen.

#### b. Straightening

Any required straightening of materials shall be done by methods that will not harm the steel materials. Minor cold straightening may be performed by hammering or preferably by rolling or pressing. Heat may be used in straightening for more sever deformations.

#### c. Finish of Plate Edges – Welded Work

The plate edges to be welded may be universal mill edges or they may be prepared by shearing, machining, chipping, or by mechanically guided oxygen or plasma are cutting. Edges of irregular contour may be prepared by manually guided oxygen or plasma are cutting.

- Oxygen or plasma are cutting. When edges of plates are oxygen or plasma cut, the surface obtained shall be uniform and smooth and shall be cleared of slag accumulation before welding. All cutting shall follow closely the lines prescribed.
- 2. Shearing. Shearing may be used for material 13 mm (½ in.) or less in thickness to be joined by butt joints, and for all thickness of materials permitted to joined by lap joints.

#### d. Shipping/Transportation

All materials shall be loaded, transported to the site, unloaded and store in such a manner as to prevent damage.

#### 6.5 Welding

#### a. General

All welding shall be the shielded are method and shall conform to the AWS "Code for Are and Gas Welding in Building Construction". Qualification of welders shall be in accordance with the specifications for Standard Qualification Procedure of the AWS.

#### b. Butt joints

- All welding in Butt joints shall be complete joint penetration welds, which may be double welded from both sides or welded from one side only using a backing strip or equivalent means to ensure complete joint penetration welds. Butt joints mat be used for all thickness permitted to be welded under this specification.
- 2. Butt joints may be used for welding all thickness of material permitted to be welded under this specification.

# c. Lap joints

- 1. Shall have continuous full fillet welds on both edges of the joints. The maximum thickness permitted for this type shall be 12mm (½ in.)
- 2. In any case, welded lap joints, except when shown on the plans, shall be lapped not less than five times the nominal thickness of the thinner plate joined (5t); but in the double-welded lap joints, the lap need not exceed 50 mm (2 in.), and in single-welded lap joints, the lap need not exceed 25 mm (1 in.)

# d. Minimum Size of Fillet and Seal Welds

1. Fillet Welds: Plates 5 mm (3/16 in.) and less in thickness shall have full fillet welds. Plates more than 5 mm (3/16 in.) thick shall have welds of a size not less than one-third the thickness of the thinner plate at the joint, with a minimum of 5 mm (3/16 in.).

2. Seal Welds: Seal welding, when desired, shall be accomplished by a continuous weld combing the functions of sealing and strength, changing section only as the required strength may necessitate.

#### e. Minimum Length of Welds

The minimum length of any weld shall be four times the size but not less than 38 mm (1-½ in.), or else the size of the weld shall be considered not exceed one- fourth of its length.

The effective length of a fillet weld shall not include the length of the tapered ends. A deduction of at least 6.35 mm ( $\frac{1}{4}$  in.) shall be made from the overall length as an allowance for tapered ends.

#### f. Safety in Welding and Cutting

Operations involving welding cutting, brazing, or allied processes shall conform with ANSI Z49.1 for the protection of welders, welding operation, and nearby personnel.

g. Safe Usage of Cutting and Welding Processes

Procedures shall conform with ANSI Z49.1 (NFPA 51b) for the prevention of fire and property damage

# 7. PUBLIC SAFETY AND CONVENIENCE

#### 7.1 Public Safety

Whenever the Contractor's operations create a condition hazardous to traffic or to the public, it shall furnish at its own expense such flagmen and guards as are necessary to give adequate warning to 'the public of any dangerous conditions to be encountered; and it shall furnish, erect, and maintain such fences, barricades, lights, signs and other devices as are necessary to prevent accidents and avoid damage or injury to the public. Signs, flags, lights and other warning and safety devices, shall conform with the requirements set forth in the DPWH "Standard Specifications for Highways and Bridges", 1951 or its latest revision.

#### 7.2 Public Convenience

The Contractor shall so conduct its operations as to offer the least possible obstruction and inconvenience to public traffic, and it shall have under construction no greater length or amount of work than it can prosecute properly with due regard to the rights of the public; Convenience of abutting lots along the road shall be provided for as far as practicable. Convenient access to driveways, houses, and buildings along the line of work shall be maintained and temporary approaches to crossings or intersecting roads shall be provided and kept in good condition.

Before the Contractor can create any condition hazardous to the traffic or to the public, the Contractor will submit to the Engineer at least one week in advance, its proposal for traffic deviation, public warning and lighting, safety devices and staff that will be permanently mobilized for such purposes. This proposal will be discussed and presented to the Owner and LGU for approval before implementation. These requirements even agreed upon, will not relea.se the Contractor of its responsibility in case of any accident or damage that can occur during the construction period.

## 7.3 Sanitary Provisions

The Contractor shall provide and maintain such sanitary accommodation for the use of its employees and those of its subcontractors as may be to comply with applicable national and local laws and ordinances, regulations, customs and practices.

#### 7.4 Safety and Health Regulations

Contractors and subcontractors shall comply with all applicable national and local laws and ordinances, regulations, customs and practices regarding safety and health.

# 7.5 Securing the Work Area

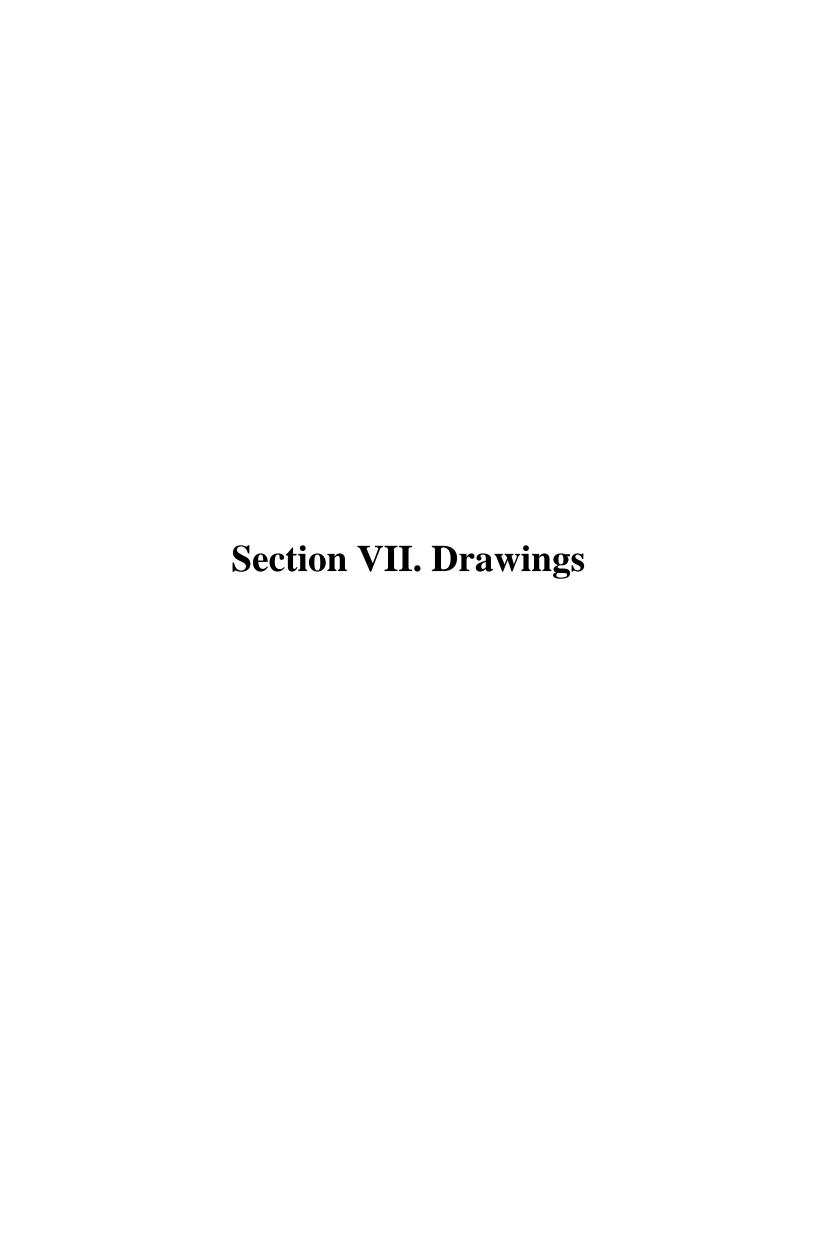
Site security should consider all risks to workers and others. Establish the work activity's boundary before securing the work area. Each work activity may be smaller than the whole workplace, so as each work activity moves its boundary moves with it. As the work boundary moves, so far as is reasonably practicable, minimize risk to workers and others outside the work activity. Other people near the work have a responsibility to take reasonable care that their actions (or lack of action) do not put themselves or others at risk. They must also comply with any reasonable instruction given by the contractor, as far as they are reasonably able to.

When organizing site security and site access, consider:

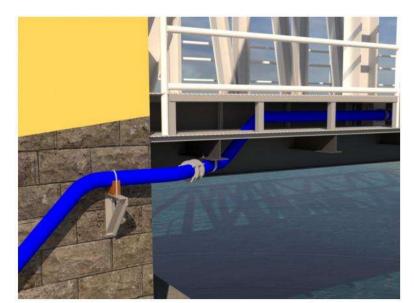
- a) warning or hazard signs
- b) supervising authorized visitors
- c) the risk of unauthorized access occurring (consider schools, parks, shops or other public places, or amenities and events nearby)
- d) pedestrians and other members of public
- e) other workers and mobile plant on site
- f) vehicle traffic control within and near the excavation
- g) delivery points, including vehicle access and egress
- h) immobilizing/locking vehicles
- i) safe, secure and control of any construction materials from the excavation
- j) suitably designed and constructed physical barriers (eg safety fences, lockable gates, or covers).

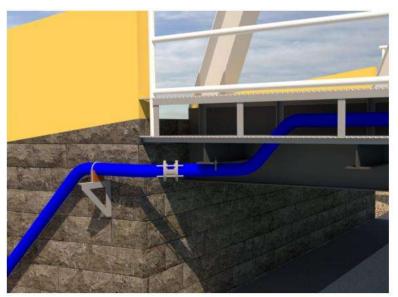
# 7.6 Non-Observance of Safety Provisions

Should the Contractor fail to faithfully observe the Public Safety Provisions herein specified, the Administration may exercise such remedial rights as are provided under the Contract. The Administration may withhold one percent (1%) of the monthly progress payments due the Contractor until it makes good its contractual obligation.





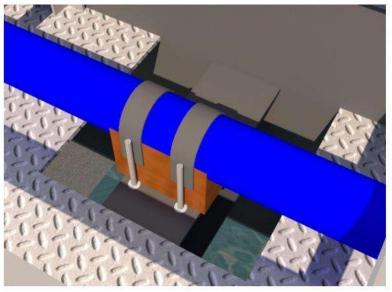




PERSPECTIVE AP



PERSPECTIVE "B"



PIPE ANCHOR



C∧JJ 5Y

M.R. ALLEN B. SACRAMENTO

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ENGR. MARVIN A. BALAGOT

C IsCRaUleY

ENGR. JENNETS, LORENZO TROBUTE RED Y SATISFACIE

RECOMMENDED FOR MANAGON

ENGR. ARMANDO H. BONGAT

Wand WALL

MR. EMMANUEL C. CATOLOS

| Max | Max

CHANES

TANAY WATER DISTRICT

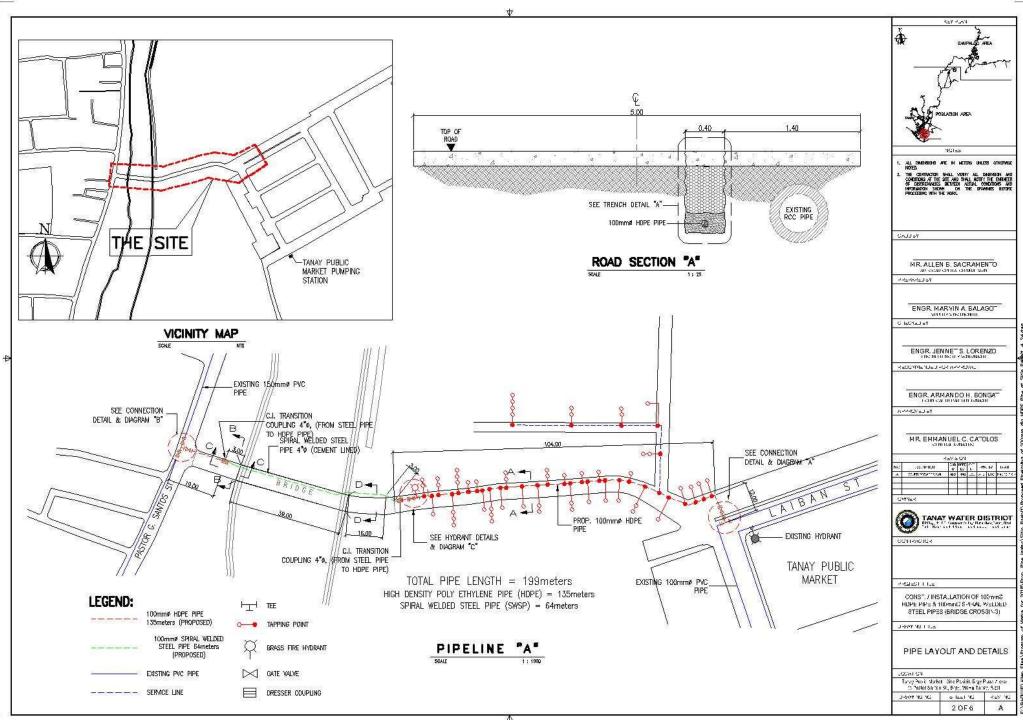
SPICASIFAC

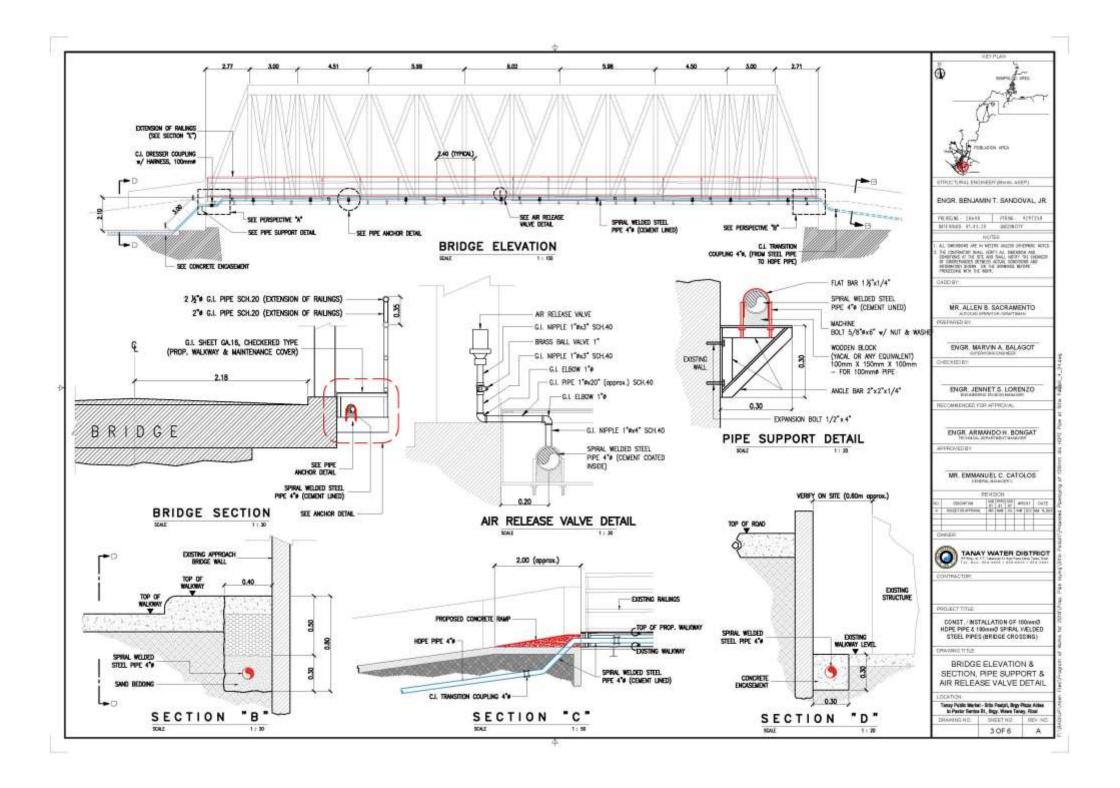
PROBERT LIE

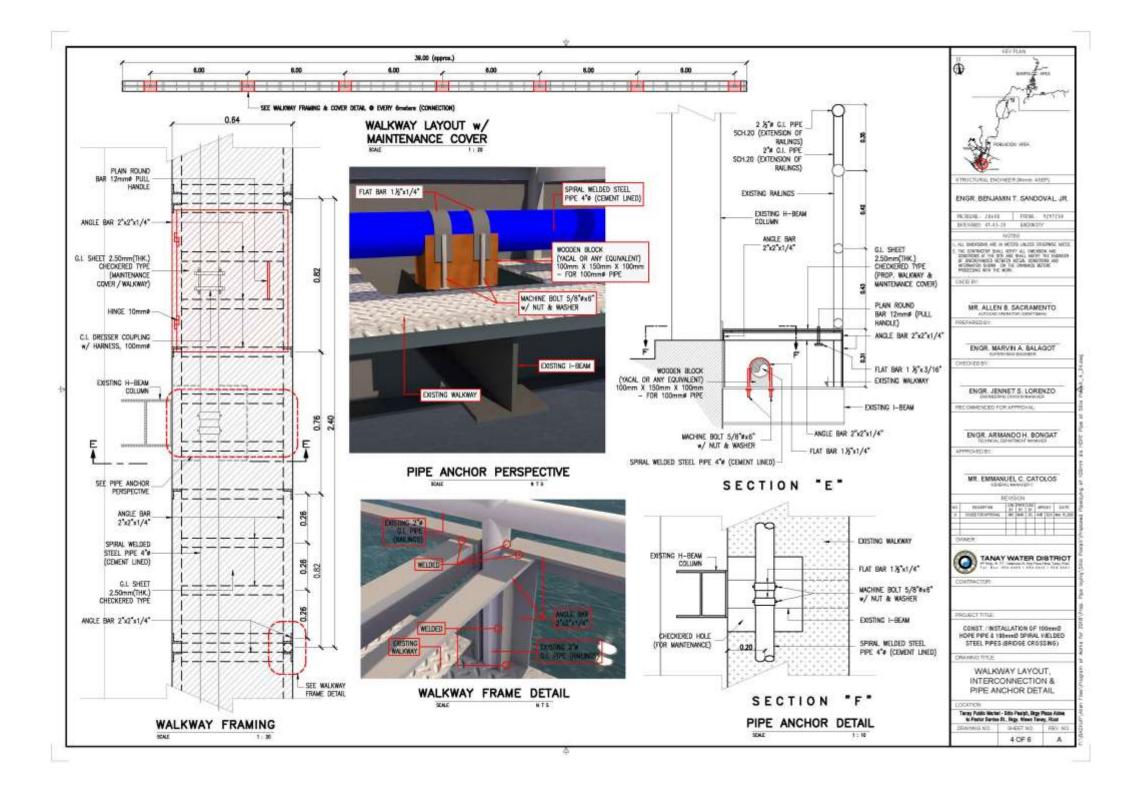
CORST. / IRSTALLATION OF 100 mm3 HOPE PIPE & 100 mm3 SHRAL WELDED STEEL PIPES (BRIDGE CROSSING)

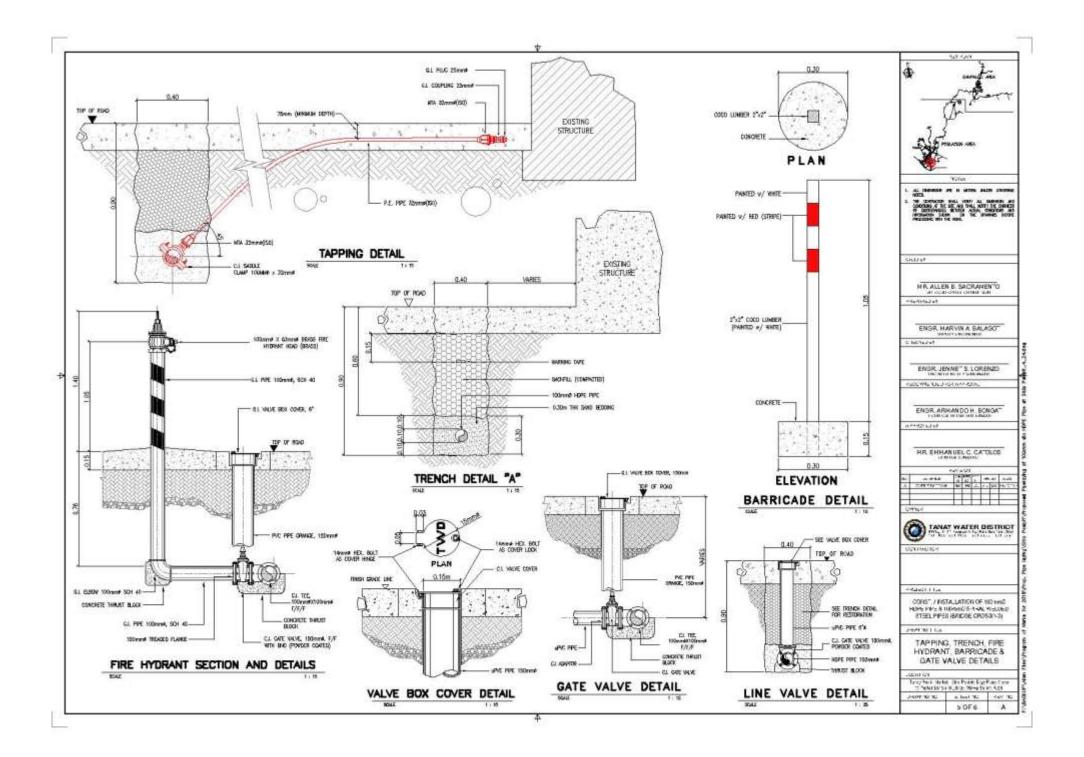
JEWY WELLE

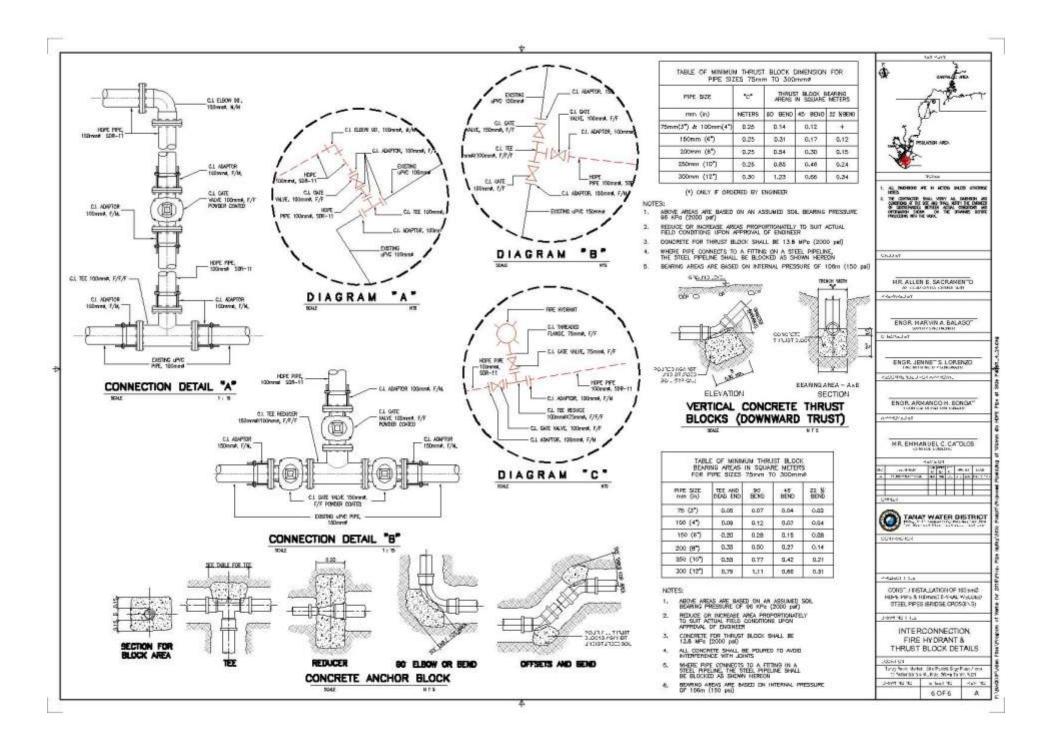
PERSPECTIVE











# Section VIII. Bill of Quantities

# **BILL OF QUANTITIES**

Pay Item No.	Description	Unit	Qty.	Unit Price (Pesos)	Amount (Pesos)
1.0: Ge	eneral Requirements			1.	1.
1.1	Permits and Licenses	lot	1.00	In words: Pesos	In words: Pesos
				In figures: Php	In figures: Php
1.2	Project Billboard	lot	1.00	In words: Pesos	In words: Pesos
				In figures: Php	In figures: Php
			S	SUB-TOTAL FOR PART 1:	
2.0: Mo	obilization / Demobiliz	zation			
	Mobilization /	lot	1.00	In words: Pesos	In words: Pesos
	Demobilization	100	-100	In figures: Php	In figures: Php
				SUB-TOTAL FOR PART 2:	
3.0 Fab	orication of Barricades	 5		OB-IOTAL TOR PART 2.	
	Fabrication of Barricades	lot	1.00	In words: Pesos	In words: Pesos
	Barricades			In figures: Php	In figures: Php
			S	BUB-TOTAL FOR PART 3:	
4.0 Pip	elaying Related Work	S			
		mtro	202	In words: Pesos	In words: Pesos
4.1	4.1 Concrete Pavement Cutting	mtrs	292	In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.2	Concrete Pavement	Sq.m	75		
	Breaking and Hauling			In figures: Php	In figures: Php

				In words: Pesos	In words: Pesos
4.3	Excavation of	cu.m.	57		
Trenches			In figures: Php	In figures: Php	
				In words: Pesos	In words: Pesos
4.4	Sand Bedding	cu.m.	29		
				In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.5	Pipe Laying (HDPE Pipe) Works	mtrs.	135		
	Pipe) Works			In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.6	Pipe Bridge	mtrs.	64		
	Crossing Works			In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.7					
4.7	Backfilling of Trenches	cu.m.	38		
				In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.8	Compaction of	Sq.m	45		
	Trenches				
				In figures: Php In words: Pesos	In figures: Php In words: Pesos
					in words: Pesos
4.9	Leak, Pressure &	mtrs.	199		
	Disinfection			In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.10					
4.10	Interconnection Works	lots	2		
	Works			In figures: Php	In figures: Php

				In words: Pesos	In words: Pesos
4.11		sots	29		
	Tapping Works	sets	29		
				In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.12		aat	4		
	Installation of Fire Hydrant	set	1		
	, rry drame			In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.13					
4.13	Restoration Works	cu.m.	13		
(Pavement)	(Pavement)			In figures: Php	In figures: Php
				In words: Pesos	In words: Pesos
4.14	Installation of	mtrs.	39		
	Steel Walkway & Railings			In figures: Php	In figures: Php
				SUB-TOTAL FOR PART 4:	
			То	tal Amount in Figures	
otal Ar	mount in words:				
Subm	itted by:			Contract Duration:	Calendar Days
Name			in t	he capacity of	
Signe	d		Dat	e	
Subm	itted by:			he capacity of	

		DETA	ILED ESTIMATES	S		
PROJECT:		Proposed Construction / Installation of 100mmØ H 100mmØ Spiral Welded Steel Pipe (Bridge Crossi				
LOCA	ATION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to	Pastor Santos St. Brgy	v. Wawa, Tanay, Rizal	REV. NO:	
ITEI	M NO.	NAME OF ITE	EM		QUANTITY	UNIT OF MEASUREMENT
1	1.0	General Requirements (Fabrication	on of Project Billboa	rd)	1.00	lot
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
				000000000000000000000000000000000000000		
MATERIALS	1.0	Tarpaulin 4" x 8"		pcs		-
	2.0	Good Lumber 2" x 1/2" x 8 (Lintel)		pcs		-
	3.0	Coco Lumber 2" x 2" x 10"		pcs		-
ĒR	4.0	CWN 4"		kg		-
MAI	5.0	CWN 3"		kg		-
	6.0	CWN 1 1/2"		kg		-
	7.0	G.I. Tie Wire #16		kg		
			-			
	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
F						
EQUIPMENT						=
핌						-
EQ	***************************************					-
			-			
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
SR	1.0	Skilled				
LABOR	2.0	Labor/Helper			-	-
_						
		<u> </u>		TC	TAL for LABOR	_
EST	IMATE	D DIRECT COST (EDC)				_
		CONTINGENCIES & MISC. 15% (OCM)				_
		FOR'S PROFIT 10% (CP)				_
		DED TAX 5% of (EDC+OCM+CP)				_
		D INDIRECT COST				-
	TAL CO					-
	T COS					-
		TOTAL COST				

Prepared by:			

		DETAILE	D ESTIMATE	ES		
PROJECT:		Proposed Construction / Installation of 100mmØ HD 100mmØ Spiral Welded Steel Pipe (Bridge Crossin	DATE:			
		Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to P Rizal	astor Santos St.	Brgy. Wawa, Tanay,	REV. NO:	
ITEN	M NO.	NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
3	3.0	Fabrication of Barric	ades		1.00	lot
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
	1.0	Coco Lumber 2" x 2" x 12"		pcs		-
	2.0	CWN 3"		kg		-
	3.0	Portland Cement		bags		-
	4.0	Sand		cu.m	***************************************	-
ဂ	5.0	Gravel		cu.m		-
MATERIALS	6.0	QDE White		liters		-
Ē	7.0	QDE Red		lit.		-
Σ	8.0	Paint Thinner		lit.		-
	9.0	Paint Brush 2"  Caution Tape (300m/roll)		pcs.		
			for MATERIALS	-		
Ā	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	соѕт
EQUIPMENT						
				TOTAL	for EQUIPMENT	-
	NO.	DESIGNATION OF PERSONNEL	NO. OF	NO. OF HOUR/S	HOURLY RATE	COST
	4.0	Skilled				
BOR	1.0	•				-
LAE	2.0	Labor/Helper				-
	***************************************					
				Te	OTAL for LABOR	-
		DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		PED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS					-
	COST					-
ADJI	JSTED	TOTAL COST				

Prepared by:			

		DETAI	LED ESTIMATES	3		
PROJECT:		Proposed Construction / Installation of 100mmØ HE 100mmØ Spiral Welded Steel Pipe (Bridge Crossin	DATE:			
LOCAT	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to P	astor Santos St. Brgy	. Wawa, Tanay, Rizal	REV. NO:	
ITEN	I NO.	NAME OF ITE	M		QUANTITY	UNIT OF MEASUREMENT
4	.1	Concrete Pavement	Cutting		292.00	meters
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
	110.	NAME AND SECURICATIONS OF MATERIALS	- Will	ONT	01411 0001	-
MATERIALS						-
ER.					•••••••••••••••••••••••••••••••••••••••	_
Ι	***************************************					-
2						-
		,	for MATERIALS	-		
_	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT						
₫	1.0	Concrete Cutter				-
g					••••••••••••••••••••••••••••••••••••	
ш				TOTAL	for EQUIPMENT	
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
œ	1.0	Construction Foreman		***************************************		-
LABOR	2.0	Concrete Cutter Operator				-
ב	3.0	Labor/Helper				-
				T	OTAL for LABOR	-
		DIRECT COST (EDC)				-
		CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		ED TAX 5% of (EDC+OCM+CP) INDIRECT COST				-
	AL COS					<u> </u>
	COST	•				<u>-</u>
		TOTAL COST				

Prepared by:

		DETAI	LED ESTIMATES	3		
		Proposed Construction / Installation of 100mmØ HD 100mmØ Spiral Welded Steel Pipe (Bridge Crossin		n Line and	DATE:	
LOCA	ΓΙΟΝ:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to P	Pastor Santos St. Brgy	. Wawa, Tanay, Rizal	REV. NO:	
ITEN	I NO.	NAME OF ITE	М		QUANTITY	UNIT OF MEASUREMENT
4	.2	Concrete Pavement Breaking and H	lauling (thk = 6"+2"	= 8")	75.00	sq.m.
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
ο	•••••					-
₹						
MATERIALS						-
ĕ						-
				TOTAL	for MATERIALS	-
	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
E	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Air Compressor w/ Jack Hammer				-
ੂ		The complete of the control of the c				
В						
				TOTAL	for EQUIPMENT	-
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
ĸ	1.0	Construction Foreman				-
LABOR	2.0	Jack Hammer Operator				-
ב	3.0	Labor/Helper				-
				T	OTAL for LABOR	-
		DIRECT COST (EDC)				-
		CONTINGENCIES & MISC. 15% (OCM)				•
		OR'S PROFIT 10% (CP)				-
		ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	L COS COST	I				-
		TOTAL COST				-
ADJU	שוני	IOTAL GOOT				

Prepa	ared by:			

<sup>\*</sup> Including hauling of debris

		DETAILE	D ESTIMAT	ES				
PROJECT:		Proposed Construction / Installation of 100mmØ HDI 100mmØ Spiral Welded Steel Pipe (Bridge Crossing	DATE:					
LOCAT	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pa Rizal	astor Santos St.	Brgy. Wawa, Tanay,	REV. NO:			
ITEM NO.		NAME OF ITEM	QUANTITY	UNIT OF MEASUREMENT				
4	.3	Excavation of Trenc	hes		57.00	cu.m.		
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST		
rs								
MATERIALS								
MAT	***************************************			***************************************	***************************************	***************************************		
		TOTAL for MATERIALS						
_	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST		
EQUIPMENT								
QUIP	***************************************							
ŭ				TOTAL	for EQUIPMENT	-		
	NO.	DESIGNATION OF PERSONNEL	UNIT	QTY.	UNIT RATE	COST		
œ								
LABOR	1.0	Pakyaw System @ P550.00 / cu.m				-		
						······		
				T	OTAL for LABOR	-		
		DIRECT COST (EDC) CONTINGENCIES & MISC. 15% (OCM)				-		
		OR'S PROFIT 10% (CP)				-		
		PED TAX 5% of (EDC+OCM+CP)				-		
	MATED AL COS	INDIRECT COST				-		
	COST	"				-		
		TOTAL COST						

Prepared by:			

		DETAI	LED ESTIMATES	3		
PROJECT:		Proposed Construction / Installation of 100mmØ HE 100mmØ Spiral Welded Steel Pipe (Bridge Crossin				
LOCAT	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to F	Pastor Santos St. Brgy	. Wawa, Tanay, Rizal	REV. NO:	
ITEM NO.		NAME OF ITE	М		QUANTITY	UNIT OF MEASUREMENT
4.	.4	Sand Beddin	g		29.00	cu.m.
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
MATERIALS	1.0	Sand				_
W				TOTAL	for MATERIALS	
_	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	***************************************				***************************************	_
EQUI				TOTAL	for EQUIPMENT	
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
LABOR	1.0	Supervisor/Foreman Labor/Helper				-
_	***************************************			T	OTAL for LABOR	-
ESTI	MATED	DIRECT COST (EDC)				-
		CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP) ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
TOTA	L COS	Т				-
	COST					-
ADJU	STED	TOTAL COST				

Prepared by:			

		DETAILE	D ESTIMATE	:S		
PROJE	ECT:	Proposed Construction / Installation of 100mmØ HDP 100mmØ Spiral Welded Steel Pipe (Bridge Crossing)	DATE:			
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Par Rizal	stor Santos St. Br	rgy. Wawa, Tanay,	REV. NO:	
ITEN	I NO.	NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
4	.5	Pipe Laying (HDPE Pipe	Works		135.00	meters
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
MATERIALS						
ER/	1.0	HDPE Pipe 4"Ø, SDR-11 ISO (Blue) (50m/roll)		000000000000000000000000000000000000000		-
ATE	2.0	C.I. Elbow 90 deg 4"Ø M/M				
Σ						
		T		TOTAL	for MATERIALS	-
ш	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Butt Fusion Equipment /Machine				-
Ö						
			for EQUIPMENT	-		
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
LABOR	1.0	Construction Foreman				-
-AB	2.0	Butt Fusion Operator				-
_	3.0	Labor/Helper				-
				T	OTAL for LABOR	-
		DIRECT COST (EDC)				-
		CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		PED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS	ST				-
	COST	TOTAL 000T				-
ADJU	JSTED	TOTAL COST				

Condition: Various service line will obstruct the laying of pipeline & with existing culvert. (manual laying of pipes)

Prepared by:			

		DETAILE	D ESTIMATI	ES		
PROJE	PROJECT: Proposed Construction / Installation of 100mm@ HDPE Pipe Distribution Line and 100mm@ Spiral Welded Steel Pipe (Bridge Crossing)					
LOCAT	ΓΙΟΝ:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pas Rizal	tor Santos St. B	rgy. Wawa, Tanay,	REV. NO:	
ITEM	I NO.	NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
4	.6	Pipe Bridge Crossing W	orks		64.00	meters
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
MATERIALS	## Company of the com	Pipe Laying (Spiral Welded Steel Pipe) Works  Spiral Welded Steel Pipe (cement lined) 4"Ø x 6m  C.I Dresser Coupling 4"Ø with harness  C.I Transition Coupling 4"Ø (Steel to HDPE)  Welding Rod  Oxygen  Acetylene Gas  Brass Ball Valve 1" w/ locking wing  GI Nipple 1"Ø x 6" Sch 40  GI Nipple 1"Ø x 3" Sch 40  GI Nipple 1"Ø x 20" Sch 40  GI Nipple 1"Ø x 20" Sch 40  GI Coupling 1" sch. 40  Air Release Valve 1" dia. NPT, Plastic Type  Metal Primer Gray w/ Catalyst  QDE Navy Blue  Paint Brush 3"  Lacquer Thinner  Anchoring of Steel Pipe  Expansion Bolt 1/2"x4"  Wooden Block 100mmx150mmx100mm (Yakal or any equivalent)  Machine Bolt w/ nut 5/8"x6"  Flat Bar 1 1/2" x 1/4"  Welding Rod ordinary  Cutting Disc, 4"Ø  Hacksaw Blade  Metal Primer Gray with Catalyst  QDE Navy Blue  Paint Brush 2"  Paint Brush 3"  Lacquer Thinner		pcs sets pcs kgs tanks tanks tanks pc pc pc pcs pc pc pcs pcs pc pcs pcs	for MATERIALS	
Þ	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Welding Machine	1	104.0	60.00	6,240.00
Б						
				TOTAL	for EQUIPMENT	6,240.00
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
LABOR	1.0	Construction Foreman	1	120.0	81.25	9,750.00
ΓĀĒ	2.0	Welder / Pipefitter	1	104.0	75.00	7,800.00
	3.0	Labor/Helper	5	120.0	56.25	33,750.00
				T	OTAL for LABOR	51,300.00
		DIRECT COST (EDC)				57,540.00
		CONTINGENCIES & MISC. 15% (OCM)  OR'S PROFIT 10% (CP)				8,631.00 5,754.00
		ED TAX 5% of (EDC+OCM+CP)				3,596.25
		INDIRECT COST				17,981.25
	AL COS					75,521.25
UNIT	COST				-	1,180.02
ADJU	JSTED	TOTAL COST				

Prepared by:			

		DETAILE	ED ESTIMAT	ES		
PROJECT:		Proposed Construction / Installation of 100mmØ HD 100mmØ Spiral Welded Steel Pipe (Bridge Crossing	DATE:			
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to P Rizal	astor Santos St.	Brgy. Wawa, Tanay,	REV. NO:	
ITEM NO.		NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
4	l.7	Backfilling of Trenches (De	pth = 0.6m)		38.00	cu.m.
	Luc	NAME AND ODESIGNATIONS OF MATERIALS	O.T.V		LIBUT COOT	0007
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
MATERIALS	1.0	Detectable Warning tape (with "Buried water Line" marking, 300 mtrs.)		meters		-
ΜA	••••••					······
			for MATERIALS	-		
L	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT						-
aUF						
ш				TOTAL	for EQUIPMENT	_
	NO.	DESIGNATION OF PERSONNEL	UNIT	QTY.	UNIT RATE	COST
A.						
LABOR	1.0	Pakyaw System @ P100.00 / cu.m			••••••	-
		<u> </u>		To	OTAL for LABOR	-
ESTI	MATED	DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS	· I				-
		TOTAL COST				-
ADJ	שונט	IOTAL GOOT				

Prepared by:			

		DETAILE	D ESTIMAT	ES		
PROJECT:		Proposed Construction / Installation of 100mmØ HDI 100mmØ Spiral Welded Steel Pipe (Bridge Crossing	DATE:			
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pa Rizal	astor Santos St.	Brgy. Wawa, Tanay,	REV. NO:	
ITEM NO.		NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
4	.8	Compaction of Trend	hes		45.00	sq.m.
- P	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
MATERIALS					***************************************	
MAT			***************************************			
			NO. OF		for MATERIALS	-
-	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	HNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Tampering Machine / Plate Compactor				-
EC				TOTAL	for EQUIPMENT	_
	NO.	DESIGNATION OF PERSONNEL	NO. OF	NO. OF HOUR/S	HOURLY RATE	COST
œ	1.0	Construction Foreman				-
LABOR	2.0	Tampering Machine Operator				-
נ	3.0	Labor/Helper				-
		<u>l</u>		T	OTAL for LABOR	-
ESTI	MATED	DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS COST	01				-
		TOTAL COST				-
ADJU	שונט	TOTAL GOOT				

Prepared by:			

		DETAII	LED ESTIMATES	}		
PROJECT:		Proposed Construction / Installation of 100mmØ HDI Spiral Welded Steel Pipe (Bridge Crossing)	PE Pipe Distribution	Line and 100mmØ	DATE:	
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pa	astor Santos St. Brgy.	Wawa, Tanay, Rizal	REV. NO:	
ITEN	I NO.	NAME OF ITEI	M		QUANTITY	UNIT OF MEASUREMENT
4.	90	Leak, Pressure & Dis	infection		199.00	meters
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
		Brown & Lockey Took			•••••	
	1.0	Pressure & Leakage Test				
		Water Meter 13mm (1/2") with tailpiece GK		pc.	***************************************	-
	2.0	Pressure Gauge, 2½" 0-200 PSI ¼" NPT (LF)		pcs.	***************************************	
	3.0	C. I. Saddle Clamp 4"Ø x ¾"Ø		pcs.		-
	4.0	Compression Fittings (MTA) 3/4" (NLC) ISO		pcs.		-
	5.0	PE Tubing HDPE 3/4" (SDR-11) ISO		meters.		-
	6.0	G. I. Bushing Reducer. 3/4"Ø x ½"Ø sch 40		pcs.		-
	7.0	G. I. Bushing reducer ½" x ¼" sch 40		pcs.		-
	8.0	G. I. Coupling ½" sch 40		pcs.		-
	9.0	G. I. Elbow ½" x 90° sch 40		pcs.		-
	10.0	G. I. Plug ¾", sch 40		pcs.	***************************************	-
MATERIALS	11.0	G. I. Tee Reducer 3/4 x 1/2 sch 40		рс		-
8	12.0	G. I. Tee 1/2, sch 40	***************************************	рс	***************************************	-
Ā	13.0	G. I. Pipe 1/2 x 0.50m, sch 40		рс	••••••	-
È	14.0	G. I. Nipple 1/2 x 0.15m, sch 40		pcs.		-
	15.0	Brass Ball Valve with locking wing 1/2		pcs.		-
	16.0	Teflon Tape 1/2"		pcs.		-
	17.0	Coco Lumber 2" x 2" x 10"		pcs		-
	18.0	G.I. Tie Wire #16		kg		-
	19.0	C.I. Mechanical End Cap 100mm Ø		pcs		_
	<i>I.</i> 1.0	Disinfection Chlorine solution		liters		
		Note: Water Meter assembly wil be turned over to the	he TanWD after the բ	project completion		
		TOTAL for N				-
Ä	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Hydrotesting Machine (to be provided by the water district)				
EQU				TOTAL	f FOUIDMENT	
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	for EQUIPMENT HOURLY RATE	COST
		DESIGNATION OF FEROMINEE	110.0.0.01	No. or moore	HOURETHORE	0001
쏪	1.0	Construction Foreman				-
LABOR	2.0	Pipe Fitter / Plumber				-
ב	3.0	Labor/Helper				-
					OTAL 6 1 4 - 2 -	
ESTI	MATER	DIRECT COST (EDC)		TO	OTAL for LABOR	-
		CONTINGENCIES & MISC. 15% (OCM)				_
OVF		OR'S PROFIT 10% (CP)				_
	TRACT					
CON					1	_
CON	JE ADD	ED TAX 5% of (EDC+OCM+CP)				
CON VALI ESTI	JE ADD MATED	ED TAX 5% of (EDC+OCM+CP) INDIRECT COST				<u> </u>
VALUESTI TOTA	JE ADD	ED TAX 5% of (EDC+OCM+CP) INDIRECT COST				-

- · · · · · · · · · · · · · · · ·	
IATED INDIRECT COST	
L COST	
COST	
STED TOTAL COST	
Prepared by:	

		DETAIL	.ED ESTIMATES			
PROJE	ECT:	Proposed Construction / Installation of 100mmØ HDF Spiral Welded Steel Pipe (Bridge Crossing)	PE Pipe Distribution	Line and 100mmØ	DATE:	
LOCA	ΓΙΟΝ:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pa	stor Santos St. Brgy.	Wawa, Tanay, Rizal	REV. NO:	
ITEN	ı NO.	NAME OF ITE	<b>1</b>		QUANTITY	UNIT OF MEASUREMENT
4.	10	Interconnection W	/orks		2.00	lots
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
				•		
	1.0	C. I. Tee 4" Ø F/F/F with BNG		рс		-
ဟု	2.0	C. I. Tee Reducer 6"x 4" Ø F/F/F with BNG		рс		-
MATERIALS	3.0	C. I. Gate Valve, 6"Ø, F/F with BNG (Powder Coated)		pcs		-
Ë	4.0	C. I. Gate Valve, 4"Ø, F/F with BNG (Powder Coated)		рс		-
Σ̈́	5.0	C. I. Adaptor, 6"Ø F/M for HDPE with BNG		pcs		-
	6.0	C. I. Adaptor, 4"Ø F/M for HDPE with BNG		pcs		-
	7.0	PVC Pipe 6"Ø x 6 mtrs., orange (Ordinary)		pcs		-
	8.0	C. I. Valve Box Cover, 6"Ø		pcs		_
				TOTAL	for MATERIALS	-
	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
Þ						
EQUIPMENT						
₽						
ğ						
					for EQUIPMENT	
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
œ	1.0	Construction Foreman				-
LABOR	2.0	Pipe Fitter / Plumber		•••••		-
5	3.0	Labor/Helper	••••••••••••••••••••••	***************************************		-
				***************************************	***************************************	
				T	OTAL for LABOR	-
ESTI	MATED	DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)	-			-
CON	TRACT	OR'S PROFIT 10% (CP)				-
VAL	JE ADD	ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS	т				-
	COST					-
ADJU	JSTED	TOTAL COST				

Prepared by:			

PROJEC	CT:	Proposed Construction / Installation of 100mmØ HDPI				
LOCATIO		100mmØ Spiral Welded Steel Pipe (Bridge Crossing)	E Pipe Distribu	ution Line and	DATE:	
	ION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pas Rizal	tor Santos St. E	Brgy. Wawa, Tanay,	REV. NO:	
ITEM NO.		NAME OF ITEM			QUANTITY	UNIT OF MEASUREMENT
4.11	1	Tapping Works			29.00	sets
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
	1.0	C. I. Saddle Clamp 4"Ø x 32mmØ		pcs.		-
	2.0	Compression Fittings (MTA) 32mm (NLC) ISO		pcs.		-
MATERIALS	3.0	PE Tubing HDPE 32mmØ (SDR-11) ISO (100m / roll)		roll		-
<u></u>	4.0	G. I. Coupling 1" sch. 40		pcs.		-
MAT	5.0 6.0	G. I. Plug 1" sch. 40 Teflon Tape 1/2"		pcs.		-
-	7.0	Portland Cement		pcs.		-
	8.0	Sand		bags cu.m		
	0.0	Cuita		cu.m		
			NO OF	TOTAL	for MATERIALS	-
<u> </u>	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	1.0	Concrete Cutter (Including Fuel) (65 meters)				-
<u> </u>						
g –						
				TOTAL	for EQUIPMENT	-
	NO.	DESIGNATION OF PERSONNEL	NO. OF	NO. OF HOUR/S	HOURLY RATE	COST
	1.0	Construction Foreman				
R	2.0	Pipe Fitter / Plumber				
LABOR	3.0	Concrete Cutter Operator				-
-	4.0	Labor/Helper				-
				T	OTAL for LABOR	-
		DIRECT COST (EDC)				-
		CONTINGENCIES & MISC. 15% (OCM)				-
		OR'S PROFIT 10% (CP)				-
		ED TAX 5% of (EDC+OCM+CP)				-
TOTAL		INDIRECT COST			+	-
UNIT C		•				
		TOTAL COST				

## Activities Included:

Prepared by:

Tapping
Cutting
Chipping
Service Line Laying
Restoration

		DETAI	LED ESTIMATES			
PROJ	ECT:	Proposed Construction / Installation of 100mmØ HDPE Spiral Welded Steel Pipe (Bridge Crossing)	E Pipe Distribution Lir	ne and 100mmØ	DATE:	
LOCA	LOCATION: Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to Pastor Santos St. Brgy. Wawa, Tanay, Rizal			REV. NO:		
ITEN	/I NO.	NAME OF ITE	M		QUANTITY	UNIT OF MEASUREMENT
4.	12	Installation of Fire	Hydrant		1.00	set
			T	Г	T T	
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT RATE	COST
	1.0	C. I. Adaptor, 4"Ø F/M for HDPE with BNG		nc		_
	2.0	G. I. Pipe, 4"Ø x 6m Sch. 40, Std.		pc. pc.		
	3.0	C.I. Gate Valve 4" Ø,F/F w/ BNG, powder coated				-
	4.0	G. I. Elbow, 4"Ø, sch. 40		pc. pc.		
	5.0	C. I. Valve Box Cover, 6"Ø				-
	6.0	C. I. Valve Box Cover, 6 Ø  C. I. Threaded Flange, 4"Ø		pcs.	-	<u>-</u>
	***************************************			pc.	***************************************	
S	7.0	C. I. Tee 4" x4"Ø F/F/F with BNG		pc		
ĭ	8.0	Brass Fire Hydrant Head, 4" x 2 1/2"		pc.		_
MATERIALS	9.0	PVC Pipe Orange 6"		pc	•	-
MA.	10.0	Teflon Tape 3/4"		pcs.		-
	11.0	Metal Primer Gray with Catalyst		lit		-
	12.0	QDE Yellow		lit		-
	13.0	QDE Black		lit	•	_
	14.0	Paint Brush 2"		pcs.		-
	15.0	Lacquer Thinner		bot.		-
	16.0	Masking Tape 1"		рс		-
			Į.	TOTAL	for MATERIALS	-
	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT	*******************************					
PM						
ы						-
E						-
		<del>,</del>		TOTAL	for EQUIPMENT	-
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
ЭR	1.0	Supervisor / Foreman				-
LABO	2.0	Pipefitter / Plumber		***************************************		_
_	3.0	Labor/Helper				-
		<del>,</del>		TC	OTAL for LABOR	-
· o	NO.	OTHERS	QTY	UNIT	UNIT RATE	COST
OF N						
COST OF HREADIN	1.0	Threading for G.I. Pipe 4" dia				-
COST OF THREADING						
١				TOT	TAL for OTHERS	-
EST	IMATE	D DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)				-
CON	ITRAC	FOR'S PROFIT 10% (CP)				-
VAL	UE AD	DED TAX 5% of (EDC+OCM+CP)				-
EST	IMATE	D INDIRECT COST				-
TOT	AL CO	ST				-
UNI	r cost	T				-
ADI	USTED	TOTAL COST				

Prepared by:			

		DETAI	LED ESTIMATES	3		
PROJE	ECT:	Proposed Construction / Installation of 100mmØ HI 100mmØ Spiral Welded Steel Pipe (Bridge Crossin	•	n Line and	DATE:	
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to F	Pastor Santos St. Brgy	. Wawa, Tanay, Rizal	REV. NO:	
ITEN	/I NO.	NAME OF ITE	M		QUANTITY	UNIT OF MEASUREMENT
4.	13	Restoration Works (P	avement)		13.00	cu.m.
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
				***************************************		
	I.	Concreting Works				
	1.0	Ready Mix Concrete, 3000psi @28days		cu.m.		-
	2.0	Gravel G1		cu.m.		
Ś	3.0	Cement		bags		-
₹	4.0	Sand		cu.m.		-
MATERIALS	5.0	Gravel 3/4"		cu.m.		_
È	II.	Painting Works				***************************************
	1.0	Flat Latex White		lit		-
	2.0	Elastomeric Paint (Yellow)		lit		_
	3.0	Elastomeric Paint (Black)		lit		-
	4.0	Paint Brush 2"		pcs		-
				TOTAL	for MATERIALS	-
눌	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT						
Ĕ						-
В				TOTAL	for EQUIPMENT	
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
R	1.0	Construction Foreman				-
LABOR	2.0	Mason				-
_	3.0	Labor/Helper		***************************************	•••••••••••••••••••••••••••••••••••••••	_
		1		I Te	OTAL for LABOR	-
ESTI	MATED	DIRECT COST (EDC)				-
OVE	RHEAD	CONTINGENCIES & MISC. 15% (OCM)				-
CON	TRACT	OR'S PROFIT 10% (CP)				-
VAL	JE ADD	ED TAX 5% of (EDC+OCM+CP)				-
		INDIRECT COST				-
	AL COS	т				-
	COST					-
ADJU	JSTED	TOTAL COST				

Prepared by:			

		DETA	ILED ESTIMATE	S		
PROJE	ECT:	Proposed Construction / Installation of 100mmØ HI 100mmØ Spiral Welded Steel Pipe (Bridge Crossin		n Line and	DATE:	
LOCA	TION:	Tanay Public Market - Sitio Pasipit, Brgy. Plaza Aldea to F	Pastor Santos St. Brgy	y. Wawa, Tanay, Rizal	REV. NO:	
ITEN	ı NO.	NAME OF ITE	:M		QUANTITY	UNIT OF MEASUREMENT
4.	14	Installation of Steel Walk	way & Railings		39.00	meters
	NO.	NAME AND SPECIFICATIONS OF MATERIALS	QTY	UNIT	UNIT COST	COST
			***************************************			
ı	1.0	Angle Bar 2"x2"x1/4"	••••••	pcs		-
	2.0	GI Sheet 2'x4' 2.5mm thk. (chekered type)		pcs		-
	3.0	Plain Round Bar 12mm Ø		pcs		-
	4.0	Hinge 10mmØ		pcs		-
	5.0	Flat Bar 1 1/2" x 3/16"		pcs		-
S	6.0	GI Pipe 2 1/2" sch. 20		pcs		-
MATERIALS	7.0	GI Pipe 2" sch. 20		pcs		-
Ë	8.0	Welding Rod ordinary	***************************************	kgs	•••••••••••••••••••••••••••••••••••••••	-
Ψ	9.0	Cutting Disc 4"	***************************************	pcs		-
	10.0	Grinding Disc, 4"Ø		pcs		-
	11.0	Metal Primer Gray with Catalyst		gal		-
	12.0	QDE Black		gal		
	13.0	Paint Brush 3"		pcs.		-
	14.0	Paint Brush 2"		pcs.		
	15.0	Paint Thinner		bot.	•	-
	16.0	Lacquer Thinner		bot.		-
			T	1	for MATERIALS	-
₹	NO.	NAME AND CAPACITY OF EQUIPMENT / TOOLS	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
EQUIPMENT						
HP.						-
EQ						
		T	Т		for EQUIPMENT	-
	NO.	DESIGNATION OF PERSONNEL	NO. OF UNIT/S	NO. OF HOUR/S	HOURLY RATE	COST
LABOR	1.0	Construction Foreman				-
[ AB	2.0 3.0	Welder / Pipefitter				
_	3.0	Labor/Helper				-
				<u> </u> 	OTAL for LABOR	-
FSTI	MATED	DIRECT COST (EDC)			C.AL IOI LABOR	<u>-</u>
		CONTINGENCIES & MISC. 15% (OCM)				<u>-</u>
		OR'S PROFIT 10% (CP)				
		ED TAX 5% of (EDC+OCM+CP)				
		INDIRECT COST				
	AL COS					
	COST	•				-
		TOTAL COST				
אטטו	יס ו בט	I O I AL OUU I				

Note: There are provisions for additional GI sheet 2"x4" ga. 16 (checkered ) and welding rod & labor component to replace the defective existing flat form

Prepared by:			

# **Section IX. Bidding Forms**

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#### **Bid Form**

	Date: IB <sup>1</sup> N <sup>o</sup> :
To: [name and address of PROCURING ENTITY] Address: [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 information];

The discounts offered and the methodology for their application are: [insert information];

- (c) Our Bid shall be valid for a period of *[insert number]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: [insert information];
- (f) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].

\_\_\_

<sup>&</sup>lt;sup>1</sup> If ADB, JICA and WB funded projects, use IFB.

Name:	
In the capacity of:	
Signed:	
Duly authorized to sign the Bid for and on behalf of:	
Date:	

(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.

# **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 par	ties 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, with this agreement]	if any, made during t	he Bid evaluation should be attached

### **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
, Ph	ilippines.						-				
			Bidde	r's Repr	esenta	tive/Au	thorize	d Sig	nato	 ory	

<b>SUBSCRIBED AND SWORN</b> 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 NO	TARY PU	BLIC
Serial No. of Co	ommission	
Notary Public fo	or	until
Roll of Attorney	ys No	
PTR No.	_ [date issi	ued], [place issued]
IRP No	[date issi	uedl Inlace issued

Doc. No
Page No
Book No
Series of

<sup>\*</sup> This form will not apply for WB funded projects.

# **Bid-Securing Declaration**

(REPUBL	IC OF THE PH	ILIPPINES)	
CITY OF		) S.S.	
X			X

**Invitation to Bid** [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.

<b>IN WITNESS WHEREOF</b> , 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
<b>SUBSCRIBED AND SWORN</b> 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

