Procurement of INFRASTRUCTURE PROJECTS

“KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT

(LOT 4 - Region IVA –PNR, PPA and LTO)

Government of the Republic of the Philippines
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Section I. Invitation to Bid
INVITATION TO BID FOR
“KAYO ANG BOSS KO” TOILET FACILITIES
IMPROVEMENT PROJECT
(Region IVA –PNR, PPA and LTO)

The Department of Transportation and Communications (DOTC), through its Bids and Awards Committee (BAC), invites contractors registered with and classified by the Philippine Contractors Accreditation Board (PCAB) to join in the procurement of the herein project:

<table>
<thead>
<tr>
<th>Name of Project/Location Brief Description</th>
<th>“KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source of Fund</td>
<td>CY 2012</td>
</tr>
<tr>
<td>ABC/Duration</td>
<td>Php 9,713,617.51 / 270 Calendar Days</td>
</tr>
<tr>
<td>PCAB Registration</td>
<td>Small B for Vertical Structures</td>
</tr>
<tr>
<td>Minimum Equipment Requirement (OWNED)</td>
<td>One Bagger Concrete Mixer</td>
</tr>
<tr>
<td></td>
<td>Concrete Vibrator</td>
</tr>
<tr>
<td></td>
<td>Bar Cutter</td>
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<td></td>
<td>Welding Machine</td>
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<tr>
<td></td>
<td>Grinder</td>
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<td></td>
<td>Cutting Machine</td>
</tr>
<tr>
<td></td>
<td>Stake Truck</td>
</tr>
</tbody>
</table>

The schedule of procurement activities are shown below:

<table>
<thead>
<tr>
<th>Issuance of Bid Tender Documents</th>
<th>20 March 2013 – 16 April 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Bidding Conference</td>
<td>04 April 2013, 2:00 PM, at Unit 167, 16th Floor, The Columbia Tower, Ortigas Ave., Mandaluyong City</td>
</tr>
<tr>
<td>Submission and Receipt of Bids</td>
<td>The deadline for submission and receipt of bids is 16 April 2013, until 9:00 AM, only at Unit 167, 16th Floor, The Columbia Tower, Ortigas Ave., Mandaluyong City. Bids may be submitted before the 16 April 2013 deadline at Unit 153, 15th Floor, The Columbia Tower, Ortigas Avenue., Mandaluyong City.</td>
</tr>
<tr>
<td>Opening of Bids</td>
<td>16 April 2013, 9:00 AM, Unit 167, 16th Floor, The Columbia Tower, Ortigas Avenue., Mandaluyong City.</td>
</tr>
</tbody>
</table>

Prospective bidders must have an experience of having completed at least one (1) contract that is similar to the contract to be bid, and whose value, adjusted to current prices using the NSO consumer price indices, must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC) and have key personnel and equipment available for the prosecution of the contract.
Bidding will be conducted through open competitive bidding procedures using non-discretionary pass/fail criterion as specified in the Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184), otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to the Filipino citizen/sole proprietorships, partnerships, or organizations with at least seventy-five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

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

The Bid Documents/Forms will be made available at Unit 153, The Columbia Tower Bldg., Ortigas Avenue, Mandaluyong City, upon payment of a non-refundable amount of P10,000.00 to the DOTC Cashier. It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and at the DOTC website at www.dotc.gov.ph provided that the bidders shall pay the fee for the Bidding Documents not later than the submission of bids. The Pre-Bid Conference is open to all interested parties.

All bids must be accompanied by the bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address as stated above. Late bids shall not be accepted.

The DOTC reserves the right to reject any or all bids, and accept the offer most advantageous to the Government. The DOTC assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of the bid.

For further information, please refer to:
Undersecretary Catherine P. Gonzales
Department of Transportation and Communications
Bids and Awards Committee Office
15th Floor, Unit 153, The Columbia Tower
Ortigas Avenue, Mandaluyong City
Tel No. 727-7960 loc. 235
654-7725
Fax No. 654-7725
www.dotc.gov.ph

(SGD.) ATTY. RENE K. LIMCAOCO
Undersecretary for Planning
Vice-Chairman, Bids and Awards Committee
Section II. Instructions to Bidders
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A. General

1. Scope of Bid

1.1. The Procuring Entity as defined in the Bid Data Sheet (BDS), invites bids for the construction of Works, as described in Section VI. Specifications. The name and identification number of the Contract is provided in the BDS.

1.2. The successful bidder will be expected to complete the Works by the intended completion date specified in SCC Clause 1.16.

2. Source of Funds

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

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

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

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

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

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

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

(v) “obstructive practice” is

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

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

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

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

3.2. Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under the applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in Instructions to Bidders (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. This will include a firm or an organization 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;

(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 temporary 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, 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; and

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

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

5. Eligible Bidders

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

(a) Duly licensed Filipino citizens/sole proprietorships;

(b) Partnerships duly organized under the laws of the Philippines and of which at least seventy five percent (75%) of the interest belongs to citizens of the Philippines;

(c) Corporations duly organized under the laws of the Philippines, and of which at least seventy five percent (75%) of the outstanding capital stock belongs to citizens of the Philippines;

(d) Cooperatives duly organized under the laws of the Philippines, and of which at least seventy five percent (75%) of the interest belongs to citizens of the Philippines; and

(e) Persons/entities forming themselves into a JV, i.e., a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that, in accordance with Letter of Instructions No. 630, Filipino ownership or interest of the joint venture concerned shall be at least seventy five percent (75%): Provided, further, that joint ventures in which Filipino ownership or interest is less than seventy five percent (75%) may be eligible where the structures to be built require the application of techniques and/or technologies which are not adequately possessed by a person/entity meeting the seventy five percent (75%) Filipino ownership requirement: Provided, finally, that in the latter case, Filipino ownership or interest shall not be less than twenty five percent (25%). For this purpose Filipino ownership or interest shall be based on the contributions of each of the members of the joint venture as specified in their JVA.

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

5.3. Government Corporate Entities 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 dependent agencies of the GOP or the Procuring Entity.

5.4.  (a) Unless otherwise provided in the BDS, the Bidder must have completed, within ten (10) years from the submission of bids, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted to current prices using the National Statistics Office consumer price index.

(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, and completed within the period stated in the Invitation to Bid and ITB Clause 12.1(a)(iii).

5.5.  The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC) or a Commitment from a Universal or Commercial bank to extend a credit line in its favor if awarded the contract for this project (CLC).

The NFCC, computed using the following formula, must be at least equal to the ABC to be bid:

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

Where:

\[
K = 10 \text{ for a contract duration of one year or less, 15 for a contract duration of more than one year up to two years, and 20 for a contract duration of more than two years.}
\]

The CLC must be at least equal to ten percent (10%) of the ABC for this Project. If issued by a foreign bank, it shall be confirmed or authenticated by a Universal or Commercial Bank. In the case of local government units (LGUs), the Bidder may also submit CLC from other banks certified by the Bangko Sentral ng Pilipinas (BSP) as authorized to issue such financial instrument.

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 10.3.

(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 Head of the Procuring Entity 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 and/or to represent the Bidder in the bidding, with the duly notarized Secretary’s Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;

(i) Complying with the disclosure provision under Section 47 of the Act in relation to other provisions of Republic Act 3019; and

(j) Complying with existing labor laws and standards, if applicable.

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.

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

7. Origin of GOODS and Services

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

8. Subcontracts

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

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

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

B. Contents of Bidding Documents

9. Pre-Bid Conference

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

(b) The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission of and receipt of bids. 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.

9.3. Any statement made at the pre-bid conference shall not modify the terms of the bidding documents unless such statement is specifically identified in writing as an amendment thereto and issued as a Supplemental/Bid Bulletin.

10. Clarification and Amendment of Bidding Documents

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

10.2. Supplemental/Bid Bulletins may 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.

10.3. Any Supplemental/Bid Bulletin issued by the BAC shall also be posted on the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity concerned, if available. Unless, otherwise provided in the BDS, it shall be the responsibility of all Bidders who secure 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 Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Entity, shall be written in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation in English certified by the appropriate embassy or consulate in the Philippines, in which case 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) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the BDS;

(ii) Mayor’s permit issued by the city or municipality where the principal place of business of the prospective bidder is located;

(iii) Statement of all its ongoing and completed government and private contracts within ten (10) years from the submission of bids, including contracts awarded but not yet started, if any. The statement shall include, for each contract, the following:

(iii.1) name of the contract;

(iii.2) date of the contract;

(iii.3) contract duration;

(iii.4) owner’s name and address;

(iii.5) nature of work;

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

(iii.7) total contract value at award;

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

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

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

(iii.11) value of outstanding works, if applicable;

(iii.12) the statement shall be supported by the notices of award and/or notices to proceed issued by the owners; and

(iii.13) the statement shall be supported by the Constructors Performance Evaluation System (CPES) rating sheets,
and/or certificates of completion and owner’s acceptance, if applicable;

(iv) Unless otherwise provided in the BDS, valid Philippine Contractors Accreditation Board (PCAB) license and registration for the type and cost of the contract for this Project;

(v) Audited financial statements, showing, among others, the prospective total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission;

(vi) NFCC computation or CLC in accordance with ITB Clause 5.5; and

Class "B" Document:

(vii) If applicable, valid Joint Venture Agreement (JVA) or, in lieu thereof, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid.

(b) Technical Documents –

(i) Bid security as prescribed in 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 an authorized Insurance Commission that a surety or insurance company is authorized to issue such instrument;

(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 (viz, project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data; and

   (ii.3) List of contractor’s equipment units, which are owned, leased, and/or under purchase agreements, supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project; and
13. Documents Comprising the Bid: Financial Component

13.1. Unless otherwise stated in the BDS, the financial component of the bid shall contain the following:

(a) Financial Bid Form in accordance with the form prescribed in Section IX. Bidding Forms; and

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

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

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

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

(ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the engineer or the responsible unit of the procuring entity and that the estimates are based on adequate detailed engineering (in the case of works) 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 "0" (zero) for the said item would mean that it is being offered for free to the Government.

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. 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 the recommendation of the Procuring Entity. 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 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 bid security in the amount stated in the **BDS** shall be equal to the percentage of the ABC in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Form of Bid Security</th>
<th>Amount of Bid Security (Equal to Percentage of the ABC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</td>
<td>Two percent (2%)</td>
</tr>
<tr>
<td>(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.</td>
<td></td>
</tr>
<tr>
<td>(c) Surety bond callable upon demand issued by a surety or</td>
<td>Five percent (5%)</td>
</tr>
</tbody>
</table>
For biddings conducted by local government units, the Bidder may also submit bid securities in the form of cashier’s/manager’s check, bank draft/guarantee, or irrevocable letter of credit from other banks certified by the BSP as authorized to issue such financial statement.

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

18.3. No bid securities shall be returned to bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a motion for reconsideration and/or protest. Without prejudice on its forfeiture, Bid Securities shall be returned only after the bidder with the Lowest Calculated Responsive Bid 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) fails to submit the requirements within the prescribed period, or a finding against their veracity, as stated in 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 Lowest Calculated and Responsive Bid;

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

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

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

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

(xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.

(b) if the successful Bidder:

(i) fails to sign the contract in accordance with ITB Clause 31;

(ii) fails to furnish performance security in accordance with ITB Clause 32.

19. Format and Signing of Bids

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

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 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. The bid, except for unamended printed literature, shall be signed, and each and every page thereof shall be initialed, by the duly authorized representative/s of the Bidder.

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

20. **Sealing and Marking of Bids**

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

20.2. Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as “COPY NO. ___ - TECHNICAL COMPONENT” and “COPY NO. ___ – FINANCIAL COMPONENT” and the outer envelope as “COPY NO. ___”, respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.

20.3. The original and the number of copies of the Bid as indicated in the BDS shall be typed or written in indelible 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 identified in ITB Clause 10.1;

   (d) bear the specific identification of this bidding process indicated in the Invitation to Bid; 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. If bids are not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the bid.

**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.

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, properly identified, 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.

23.3. Bids requested to be withdrawn in accordance with ITB Clause 23.1 shall be returned unopened to the Bidders. A Bidder 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 first bid envelopes of Bidders in public as specified in the BDS to determine each Bidder’s compliance with the documents prescribed in ITB Clause 12. For this purpose, the BAC shall check the submitted documents of each bidder against a checklist of required documents to ascertain if they are all present, 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”.

24.2. Unless otherwise specified in the BDS, immediately after determining compliance with the requirements in the first envelope, the BAC shall
forthwith open the second bid envelope of each remaining eligible bidder whose first bid envelope was rated “passed”. The second envelope of each complying bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in ITB Clause 13.1(b), 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.

24.3. 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. If the withdrawing Bidder’s representative is in attendance, the original bid and all copies thereof shall be returned to the representative during the bid opening. If the representative is not in attendance, the Bid shall be returned unopened by registered mail. The Bidder may withdraw its bid prior to the deadline for the submission and receipt of bids, provided that the corresponding letter of withdrawal contains a valid authorization requesting for such withdrawal, subject to appropriate administrative sanctions.

24.4. If a Bidder has previously secured a certification from the Procuring Entity to the effect that it has previously submitted the above-enumerated Class “A” Documents, the said certification may be submitted in lieu of the requirements enumerated in ITB Clause 12.1(a), items (i) to (vi).

24.5. In the case of an eligible foreign Bidder as described in ITB Clause 5, the Class “A” Documents enumerated in ITB Clause 12.1(a) may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign Bidder concerned.

24.6. Each partner of a joint venture agreement shall likewise submit the documents required in ITB Clauses 12.1(a)(i) and 12.1(a)(ii). Submission of documents required under ITB Clauses 12.1(a)(iii) to 12.1(a)(vi) by any of the joint venture partners constitutes compliance.

24.7. A Bidder determined as “failed” has three (3) calendar days upon written notice or, if present at the time of bid opening, upon verbal notification within which to file a request for reconsideration with the BAC: Provided, however, that the request for reconsideration shall not be granted if it is established that the finding of failure is due to the fault of the Bidder concerned: Provided, further, that the BAC shall decide on the request for reconsideration within seven (7) calendar days from receipt thereof. If a failed Bidder signifies his intent to file a request for reconsideration, the BAC shall keep the bid envelopes of the said failed Bidder unopened and/or duly sealed until such time that the request for reconsideration or protest has been resolved.

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 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. In evaluating the Bids to get the Lowest Calculated Bid, the Procuring Entity shall undertake the following:

(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 ITB specifically 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 "0" (zero) for the said item would mean that it is being offered for free to the Procuring Entity; and

(b) Arithmetical corrections. Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications if expressly allowed in the BDS. 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 only be based on the bid price quoted in the Financial Bid Form.

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.

28. **Post Qualification**

28.1. The Procuring Entity shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid (LCB) 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 three (3) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the LCB, the Bidder shall submit the following documentary requirements:

(a) Tax clearance per Executive Order 398, Series of 2005;

(b) Latest income and business tax returns in the form specified in the BDS;

(c) Certificate of PhilGEPS Registration; and

(d) Other appropriate licenses and permits required by law and stated in the BDS.

Failure of the Bidder declared as LCB to duly submit the requirements under this Clause or a finding against the veracity of such, shall be ground for forfeiture of the bid security and disqualification of the Bidder for award.

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.

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 Lowest Calculated Responsive Bid, and recommend to the Head of the Procuring...
Entity 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 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 Lowest Calculated and Responsive Bid is determined for contract award.

28.6. Within a period not exceeding seven (7) calendar days from the date of receipt of the recommendation of the BAC, the Head of the Procuring Entity shall approve or disapprove the said recommendation. In the case of government owned and government-owned and/or -controlled corporations (GOCCs) and government financial institutions (GFIs), the period provided herein shall be fifteen (15) calendar days.

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 Government 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 head of the procuring entity;

(ii) If the project is no longer necessary as determined by the head of the procuring entity; 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 or fail post-qualification; or

(d) The bidder with the Lowest Calculated Responsive Bid refuses, without justifiable cause to accept the award of contract, and no award is made.

F. Award of Contract

30. Contract Award

30.1. Subject to ITB Clause 28, the Procuring Entity shall award the contract to the Bidder whose Bid has been determined to be the Lowest Calculated and Responsive Bid (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 received personally or sent by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by 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 the prescribed period from receipt by the Bidder of the notice that it has the Lowest Calculated and Responsive Bid:

(i) Valid JVA, if applicable, within ten (10) calendar days;

(ii) Valid PCAB license and registration for the type and cost of the contract to be bid for foreign bidders, within thirty (30)
calendar days, if allowed under a Treaty or International or Executive Agreement mentioned in ITB Clause 12.1(a)(iv);

(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.

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;
(d) Performance Security;
(e) Credit line in accordance with ITB Clause 5.5, if applicable;
(f) Notice of Award of Contract; and
(g) 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 equal to the percentage of the
total contract price as stated in the BDS in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Form of Performance Security</th>
<th>Amount of Performance Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Cash or cashier’s/manager’s check issued by a Universal or Commercial Bank.</td>
<td>Ten percent (10%)</td>
</tr>
<tr>
<td>(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.</td>
<td>Thirty percent (30%)</td>
</tr>
<tr>
<td>(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security; and/or</td>
<td></td>
</tr>
</tbody>
</table>
Section III. Bid Data Sheet
### Bid Data Sheet

<table>
<thead>
<tr>
<th>ITB Clause</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>The PROCURING ENTITY is Department of Transportation and Communications (DOTC). The name of the Contract is “KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT.</td>
</tr>
<tr>
<td>2</td>
<td>The Funding Source is: The Government of the Philippines (GOP) through DOTC CY 2012 Infrastructure Fund. The name of the Project is “KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT (Construction / Rehabilitation of Toilet Facilities).</td>
</tr>
<tr>
<td>3.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>5.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>5.2</td>
<td>Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.</td>
</tr>
<tr>
<td>5.4.(a)</td>
<td>The bidders must have an experience of having completed at least one (1) contract that is similar to the contract to be bid, and whose value, adjusted to current prices using the NSO consumer price indices, must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). For this purpose, similar contracts shall refer to Building Projects.</td>
</tr>
<tr>
<td>8.1</td>
<td>Subcontracting is not allowed.</td>
</tr>
<tr>
<td>8.2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>9.1</td>
<td>The DOTC will hold a Pre-Bid Conference for this Project on <strong>04 April 2013, 2:00 PM</strong>, at Unit 167, 16th Floor, The Columbia Tower, Brgy. Wack-Wack, Ortigas Avenue, Mandaluyong City.</td>
</tr>
<tr>
<td>10.1</td>
<td>The Procuring Entity’s address is: Department of Transportation and Communications Primary Bids and Awards Committee Office (BAC) The Columbia Tower, Ortigas Avenue, Mandaluyong City Telefax: 654-7725</td>
</tr>
<tr>
<td>10.3</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>12.1</td>
<td>The first envelope shall contain the eligibility and technical documents stated in the <strong>ITB</strong> Clause.</td>
</tr>
<tr>
<td>12.1(a)(i)</td>
<td>No other acceptable proof of registration is recognized.</td>
</tr>
<tr>
<td>12.1(a)(ii)</td>
<td>Valid and current Mayor’s Permit.</td>
</tr>
</tbody>
</table>
| 12.1(a)(iii) | 1. Duly signed Statement of all Ongoing Government & Private Construction Contracts including contracts awarded but not yet started (SF-INFR-15).  
2. Duly signed Statement of all Completed Government & Private Construction Contracts which are similar in nature (SF-INFR-16). |
| 12.1(a)(iv) | Valid PCAB license and registration for the type and cost of the contract for this project. For JV, provide a JV license issued by PCAB.  
The PCAB Registration for this project is Small B for Vertical Structures. |
| 12.1(b)(ii)(ii.2) | List of Contractors Personnel to be assigned to the contract to be bid with their respective curriculum vitae showing, among others, their educational attainment, professional qualification and experiences (SF-INFR-48), as follows:  
1. Civil Engineer (licensed)  
2. Architect (applicable only for vertical projects)  
3. Materials Engineer (duly accredited by DPWH)  
4. Safety Officer (with certificate of training in occupational safety and health)  
Duly signed Statement of Availability of Key Personnel and Equipment (SF-INFR-18). |
| 12.1(b)(ii)(ii.3) | List of Contractor’s Equipment OWNED (pls. see Invitation to Bid), assigned to the Proposed Contract (SF-INFR-49). |
| 13.1 | Checklist of Financial Components:  
1. Bid Prices in the bill of quantities in the prescribed form.  
2. Detailed estimates including summary sheet indicating the unit prices of construction materials, labor rates and equipment OWNED (Pls. see Invitation to Bid) used in coming up with the bid, and  
3. Cash flow by quarter and payment schedules. |
| 13.1(b) | The ABC is **Nine Million Seven Hundred Thirteen Thousand Six Hundred Seventeen Pesos and Fifty One Centavos (₱ 9,713,617.51)**  
Any bid with a financial component exceeding this amount shall not be accepted. |
| 14.2 | No further instructions. |
17.1 Bids will be valid until One Hundred Twenty (120) calendar days from the date of the opening of bids.

18.1 The bid security shall be in the following amount:

1. The amount of **One Hundred Ninety Four Thousand Two Hundred Seventy Two Pesos and Thirty Five Centavos** (₱ 194,272.35), if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit;

2. The amount of **Four Hundred Eighty Five Thousand Six Hundred Eighty Pesos and Eighty Eight Centavos** (₱ 485,680.88), if bid security is in Surety Bond; or

3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.

In lieu of a bid security mentioned above, the bidder may submit a Bid Securing Declaration that is an undertaking which states, among others, that the bidder shall enter into contract with the procuring entity and furnish the required performance security within ten (10) calendar days, or less, as indicated in the Bidding Documents, from receipt of the Notice of Award, and committing to pay the corresponding 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 required in the guidelines issued by the GPPB.

In no case shall bid security or Bid Securing Declaration be returned later than the expiration of the bid validity period indicated in the Bidding Documents, unless it has been extended in accordance with Section 28.2 of the IRR.

The Bid Securing Declaration Form is in Section VII. Bidding Form.

18.2 The bid security shall be valid until One Hundred Twenty (120) calendar days from the date of the opening of bids.

18.5 The first line should read “The bid security SHALL be forfeited”.

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:

Department of Transportation and Communications
Bids and Awards Committee Office
15th Floor, Unit 153, The Columbia Tower,
Ortigas Avenue, Mandaluyong City
The deadline for submission of bids is **16 April 2013, 9:00AM**

24.1 The place of bid opening is at **DOTC, Unit 167, The Columbia Tower, Ortigas Avenue, Mandaluyong City.**

The date and time of bid opening is **16 April 2013, 9:00AM**

24.2 No further instructions.

27.3(b) Bid modification is not allowed.

27.4 No further instructions.

28.2(b) The Bidders must submit manually filed tax returns or tax returns filed through the Electronic Filing and Payments System (EFPS) for the year 2011.

**NOTE:** The latest income and business tax returns are those within the last six months preceding the date of bid submission.

28.2(d) **Additional document:**

1. Valid Certificate of Registration indicating the Tax Identification Number and photocopy of TIN Card.

31.4(g) Construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program duly approved by the Department of Labor and Employment, and PERT/CPM.

32.2 The performance security shall be in the following amount:

1. The amount of **Nine Hundred Seventy One Thousand, Three Hundred Sixty One Pesos and Seventy Five Centavos (Php 971,361.75) or 10% of the total contract amount**, if performance security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit;

2. The amount of **Two Million, Nine Hundred Fourteen Thousand, Eighty Five Pesos and Twenty Five Centavos (Php 2,914,085.25) or 30% of the total contract amount**, if performance security is in Surety Bond; or

3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.
Section IV. General Conditions of Contract
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1. Definitions

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

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

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

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

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

1.5. The **Contract Price** is the price stated in the Letter of Acceptance and thereafter to be paid by the Procuring Entity to the Contractor for the execution of the Works in accordance with this Contract.

1.6. **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.

1.7. 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.

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

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

1.10. **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.

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

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

1.13. 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.

1.14. **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.
1.15. **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.

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

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

1.18. 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.

1.19. **Permanent Works** 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.

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

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

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

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

1.24. **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.

1.25. **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.

1.26. **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.
1.27. The **Start Date**, as specified in the **SCC**, is the date when the Contractor is obliged to commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

1.28. 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.

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

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

2. **Interpretation**

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

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

3. **Governing Language and Law**

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

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

4. **Communications**

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

5.1. On the date specified in the **SCC**, the Procuring Entity shall grant the Contractor possession of so much of the Site as may be required to enable it to proceed with the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity’s Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

5.2. If possession of a portion is not given by the date stated in the **SCC** Clause 5.1, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contact time to address such delay shall be in accordance with **GCC** Clause 47.

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

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

6. **The Contractor’s Obligations**

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

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

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

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

6.5. The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the **SCC**, to carry out the supervision of the Works. The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

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

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

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

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

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

7. Performance Security

7.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the Contractor shall furnish the performance security in any the forms prescribed in ITB Clause 32.2.

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

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

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

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

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

(c) Other terms specified in the SCC.

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

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

7.7. Unless otherwise indicated in the SCC, the Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to Act 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

8. Subcontracting

8.1. Unless otherwise indicated in the SCC, the Contractor cannot subcontract Works more than the percentage specified in ITB 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. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract, subject to compliance with the required qualifications and the approval of the Procuring Entity.

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. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of this Contract, the Procuring Entity shall rescind this Contract, without prejudice to other courses of action and remedies open to it.
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. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Clause 40.3.

10. Site Investigation Reports

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

11. The Procuring Entity, Licenses and Permits

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

12. Contractor’s Risk and Warranty Security

12.1. The Contractor shall assume full responsibility for the Works from the time project construction commenced up to final acceptance by the Procuring Entity and shall be held responsible for any damage or destruction of the Works except those occasioned by force majeure. The Contractor shall be fully responsible for the safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the Works, Equipment, installation, and the like to be affected by his construction work.

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

12.3. Unless otherwise indicated in the SCC, in case the Contractor fails to comply with the preceding paragraph, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

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

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

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

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

(d) Third Parties - Third Parties shall be held liable in cases where Structural Defects/Failures are caused by work undertaken by them such as leaking pipes, diggings or excavations, underground cables and electrical wires, underground tunnel, mining shaft and the like, in which case the applicable warranty to such structure should be levied to third parties for their construction or restoration works.

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

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

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

<table>
<thead>
<tr>
<th>Form of Warranty</th>
<th>Minimum Amount in Percentage (%) of Total Contract Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>(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</td>
<td>Five Percent (5%)</td>
</tr>
</tbody>
</table>
(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

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ten Percent (10%)</td>
<td>Bank guarantee confirmed by Universal or Commercial bank</td>
</tr>
<tr>
<td>Thirty Percent (30%)</td>
<td>Surety bond callable upon demand issued by GSIS or any surety or insurance company duly certified by the Insurance Commission</td>
</tr>
</tbody>
</table>

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

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

13. Liability of the Contractor

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

14. Procuring Entity’s Risk

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

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

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

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

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

15. Insurance

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

(a) Contractor’s All Risk Insurance;
(b) Transportation to the project Site of Equipment, Machinery, and Supplies owned by the Contractor;
(c) Personal injury or death of Contractor’s employees; and
(d) Comprehensive insurance for third party liability to Contractor’s direct or indirect act or omission causing damage to third persons.

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

15.3. The Contractor shall notify the insurers of changes in the nature, extent, or program for the execution of the Works and ensure the adequacy of the insurances at all times in accordance with the terms of this Contract and shall produce to the Procuring Entity’s Representative the insurance policies in force including the receipts for payment of the current premiums.

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

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

15.5. In the event the Contractor fails to observe the above safeguards, the Procuring Entity may, at the Contractor’s expense, take whatever measure is deemed necessary for its protection and that of the Contractor’s personnel and third parties, and/or order the interruption of dangerous Works. In addition, the Procuring Entity may refuse to make the payments under GCC Clause 40 until the Contractor complies with this Clause.
15.6. The Contractor shall immediately replace the insurance policy obtained as required in this Contract, without need of the Procuring Entity’s demand, with a new policy issued by a new insurance company acceptable to the Procuring Entity for any of the following grounds:

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

(i) become bankrupt;

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

(iii) been sued for suspension of payment; or

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

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

16. Termination for Default of Contractor

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

16.2. 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;

16.3. 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

16.4. The Contractor:

(a) 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;

(b) 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;

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

(d) neglects or refuses to remove materials or to perform a new Work that has been rejected as defective or unsuitable; or
sub-lets any part of this Contract without approval by the Procuring Entity.

16.5. All materials on the Site, Plant, Equipment, and Works 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 Head of the Procuring Entity 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 Head of the Procuring Entity 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 Head of the Procuring Entity 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 Head of the Procuring Entity shall issue an order terminating the contract;

(d) The Procuring Entity may, at anytime before receipt of the Bidder’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 Head of the Procuring Entity 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 Head of the Procuring Entity 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 Head of the Procuring Entity.

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 Head of the Procuring Entity.

28. **Contractor's Right to Claim**

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

29. **Dayworks**

29.1. Subject to GCC Clause 43 on Variation Order, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

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

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

30. **Early Warning**

30.1. The Contractor shall warn the Procuring Entity’s Representative at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Procuring Entity’s Representative may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.
30.2. The Contractor shall cooperate with the Procuring Entity’s Representative in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Procuring Entity’s Representative.

31. **Program of Work**

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

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

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

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

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

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

32. **Management Conferences**

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

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

33. Bill of Quantities

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

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

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

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

34. Instructions, Inspections and Audits

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

34.2. If the Procuring Entity’s Representative instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a Compensation Event.

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

35. Identifying Defects

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

36. Cost of Repairs

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

37. **Correction of Defects**

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

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

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

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

38. **Uncorrected Defects**

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

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

39. **Advance Payment**

39.1. The Procuring Entity shall, upon a written request of the contractor which shall be submitted as a contract document, make an advance payment to the contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum or, at the most two, installments according to a schedule specified in the SCC.

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

39.3. The advance payment shall be repaid by the Contractor by an amount equal to the percentage of the total contract price used for the advance payment.
39.4. The contractor may reduce his standby letter of credit or guarantee instrument by the amounts refunded by the Monthly Certificates in the advance payment.

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

40. Progress Payments

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

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

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

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

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

(d) Amount to cover third party liabilities.

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

40.3. Payments shall be adjusted by deducting therefrom the amounts for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Procuring Entity’s Representative within twenty eight (28) days from the date each certificate was issued. No payment of interest for delayed payments and adjustments shall be made by the Procuring Entity.

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

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

41. Payment Certificates

41.1. The Contractor shall submit to the Procuring Entity’s Representative monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

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

41.3. The value of Work executed shall:
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 ITB Sub-Clause 42.2.

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

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

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

43. Variation Orders

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

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

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

43.4. Any cumulative Variation Order beyond ten percent (10%) shall be subject of
another contract to be bid out if the works are separable from the original
contract. In exceptional cases where it is urgently necessary to complete the
original scope of work, the Head of the Procuring Entity 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 Head of the Procuring Entity for approval.

(b) The Head of the Procuring Entity or his duly authorized representative, upon receipt of the proposed Change Order or Extra Work Order shall immediately instruct the technical staff of the Procuring Entity’s to conduct an on-the-spot investigation to verify the need for the Work to be prosecuted. A report of such verification shall be submitted directly to the Head of the Procuring Entity or his duly authorized representative.

(c) The Head of the Procuring Entity or his duly authorized representative, after being satisfied that such Change Order or Extra Work Order is justified and necessary, shall review the estimated quantities and prices and forward the proposal with the supporting documentation to the Head of Procuring Entity for consideration.

(d) If, after review of the plans, quantities and estimated unit cost of the items of work involved, the proper office of the procuring entity empowered to review and evaluate Change Orders or Extra Work Orders recommends approval thereof, Head of the Procuring Entity or his duly authorized representative, believing the Change Order or Extra Work Order to be in order, shall approve the same.

(e) The timeframe for the processing of Variation Orders from the preparation up to the approval by the Head of 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 effective order of 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 within the right-of-way resulting in complete paralysis of construction activities, and other meritorious causes as determined by the Procuring Entity’s Representative and approved by the Head of the Procuring Entity. 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 adjustment shall be allowed. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GOP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

49. **Completion**

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

50. **Taking Over**

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

51. **Operating and Maintenance Manuals**

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

51.2. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative shall withhold the amount stated in the SCC from payments due to the Contractor.
Section V. Special Conditions of Contract
## Special Conditions of Contract

<table>
<thead>
<tr>
<th>GCC Clause</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.16</td>
<td>The Intended Completion Date is Two Hundred Seventy (270) calendar days.</td>
</tr>
<tr>
<td>1.21</td>
<td>The Procuring Entity is the Department of Transportation and Communications (DOTC).</td>
</tr>
<tr>
<td>1.22</td>
<td>The Procuring Entity’s Representative is the DOTC Project Manager concerned.</td>
</tr>
<tr>
<td>1.23</td>
<td>The Site is located at Region IVA – PNR, PPA and LTO.</td>
</tr>
<tr>
<td>1.27</td>
<td>The Start Date is the 7th calendar day after the date of the Notice to Proceed.</td>
</tr>
<tr>
<td>1.30</td>
<td>The Works consist of Construction / Rehabilitation of Toilet Facilities.</td>
</tr>
<tr>
<td>2.2</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>5.1</td>
<td>The DOTC shall give possession of all parts of the Site to the Contractor beginning on the date of effectivity of contract until the date of its termination and/or project completion.</td>
</tr>
<tr>
<td>6.1</td>
<td>The Contractor shall pick-up or collect the goods/materials to be installed for the Works (as enumerated in Annex “A” herein, “List of Goods/Materials To Be Supplied By the Procuring Entity to the Contractor”) from the Drop-Off Point (as enumerated in Annex “B” herein, “List of Drop-off points”) and the cost therefore shall be incorporated in the Contract Price. At the point of the commencement of the delivery of the goods/materials from the Drop-off Point until the point of destination/Project Site, the Contractor has the sole responsibility for the care and custody of the said goods/materials, which are to be installed in the Works. Therefore, the risk for the goods/materials is passed on from the Procuring Entity to the Contractor beginning at the point of where the delivery from the Drop-off Point commences until the goods/materials are delivered to and/or installed in the Project Site. The Contractor shall pay for any unjustified damage to or loss of the goods/materials within seven (7) calendar days after receipt of claims of the Procuring Entity for the total amount of loss/damage. If the Contractor fails to pay on the due date, the Procuring Entity shall be entitled to draw from the retention money. If the Contractor’s liability for the loss/damages exceeds the amount of retention money, the Contractor shall pay the excess upon written demand by the Procuring Entity. The same is without prejudice to the other remedies provided under the GCC and other applicable laws.</td>
</tr>
</tbody>
</table>
### 6.5

The Contractor shall employ the following Key Personnel:

- Civil Engineer (licensed)
- Architect (applicable only for vertical projects)
- 1 Materials Engineer (accredited by DPWH)
- 1 Safety Officer

### 7.4(c)

No further instructions.

### 7.7

No further instructions.

### 8.1

No further instructions.

### 10

The site investigation reports are: Not Applicable.

### 12.3

No further instructions.

### 12.5

In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.

In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures: Five (5) years.

In case of other structures, such as Bailey and wooden bridges, shallow wells, spring developments, and other similar structures: Two (2) years.

### 13

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

### 18.3(h)(i)

No further instructions.

### 21.2

The Arbiter is: *Construction Industry Arbitration Commission*

5th Floor, Executive Building Corner Buendia, Makati City

### 29.1

Dayworks are applicable at the rate shown in the Contractor’s original Bid.

### 31.1

The Contractor shall submit the Program of Work to the Procuring Entity’s Representative (DOTC Project Manager concerned) within 10 days of delivery of the Letter of Acceptance.

### 31.3

The period between Program of Work updates is 7 to 15 days.

The amount to be withheld for late submission of an updated Program of...
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.3</td>
<td>The Funding Source is the Government of the Philippines.</td>
</tr>
<tr>
<td>39.1</td>
<td>The amount of the advance payment is 15% of the contract amount.</td>
</tr>
<tr>
<td>40.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>51.1</td>
<td>The date by which operating and maintenance manuals are required is [N/A]. The date by which “as built” drawings are required is 15 days after project completion.</td>
</tr>
<tr>
<td>51.2</td>
<td>The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is 5% of the contract amount.</td>
</tr>
</tbody>
</table>
### LIST OF GOODS/MATERIALS TO BE SUPPLIED BY THE PROCURING ENTITY TO THE CONTRACTOR

1.1 **Contract Package 1** – Supply and delivery of major fixtures (urinals, water closets, lavatories and faucets)

<table>
<thead>
<tr>
<th>MAJOR FIXTURES</th>
<th>SPECIFICATION</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Type Ware</td>
<td>Wall-hung urinal for concealed sensor urinal flush valve, including accessories, color white, with anti-bacterial protection, stain resistant and low maintenance</td>
<td>308</td>
<td>Units</td>
</tr>
<tr>
<td>Sensor Type Flush/Fittings with water-saving mechanism</td>
<td>Concealed sensor urinal flush valve, DC battery operated, including accessories, chrome, with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>308</td>
<td>Units</td>
</tr>
<tr>
<td>Lever Type Ware</td>
<td>Wall-hung urinal for lever type flush valve, including accessories, color white, with anti-bacterial protection, stain resistant, and low maintenance</td>
<td>627</td>
<td>Units</td>
</tr>
<tr>
<td>Lever Type Flush/Fittings with water-saving mechanism</td>
<td>High pressure urinal lever type flush valve, including accessories, chrome, with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>627</td>
<td>Units</td>
</tr>
<tr>
<td><strong>2.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Type Ware</td>
<td>Floor-mounted, back-to-wall, elongated water closet for concealed sensor flush valve, including accessories, color white, with anti-bacterial protection including open front seat &amp; cover, stain resistant, and low maintenance</td>
<td>365</td>
<td>Units</td>
</tr>
<tr>
<td>Wall-hung, elongated water closet for concealed sensor flush valve, including accessories, color white, with anti-bacterial protection including seat &amp; cover, stain resistant, and low maintenance</td>
<td>350</td>
<td>Units</td>
<td></td>
</tr>
<tr>
<td>Bracket set for wall-hung water closet</td>
<td></td>
<td>350</td>
<td>Units</td>
</tr>
<tr>
<td>MAJOR FIXTURES</td>
<td>SPECIFICATION</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td>Sensor Type Flush/Fittings with water-saving mechanism</td>
<td>Concealed sensor water closet flush valve, DC battery operated, including accessories, chrome, siphon jet flushing with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>715</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Connecting pipe for concealed sensor water closet flush valve, chrome</td>
<td>715</td>
<td>Units</td>
</tr>
<tr>
<td>Lever Type Ware</td>
<td>Floor-mounted, elongated water closet for lever type flush valve, including accessories, with anti-bacterial protection including seat &amp; cover, stain resistant, and low maintenance</td>
<td>1,124</td>
<td>Units</td>
</tr>
<tr>
<td>Lever Type Flush/Fittings with water-saving mechanism</td>
<td>High Pressure water closet lever type flush valve, including accessories, chrome, siphon jet flushing with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>1,124</td>
<td>Units</td>
</tr>
<tr>
<td>3</td>
<td>Lavatory Ware Under counter oval lavatory, including accessories, color white with anti-bacterial protection, stain resistant, and low maintenance</td>
<td>1,920</td>
<td>Units</td>
</tr>
<tr>
<td>4</td>
<td>Sensor Type Faucet/Fittings Sensor type single hole lavatory faucet, DC battery operated, including accessories, chrome, with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>832</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Angle Valve 1/2&quot; x 1/2&quot; both thread male with flange</td>
<td>832</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Push type pop-up for lavatory</td>
<td>832</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Lever Type Faucet/Fittings High pressure single hole lavatory lever type faucet including plastic pop-up drain and other accessories, chrome, with water-saving mechanism, LEED Compliant (Gold Level)</td>
<td>1,088</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Angle Valve 1/2 x 1/2 (2)/ P-trap</td>
<td>1,088</td>
<td>Units</td>
</tr>
</tbody>
</table>
1.2 **Contract Package 2** – Supply and delivery of floor and wall tiles

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor (60 cm. x 60 cm.)</td>
<td>60 cm x 60 cm, durable non-slip, water and stain resistant, homogeneous, synthetic granite or porcelain floor tiles, except vinyl, ceramic or double loading tiles, of light tone color</td>
<td>35,130</td>
<td>pcs</td>
</tr>
<tr>
<td>Wall (30 cm. x 60 cm.)</td>
<td>30 cm x 60 cm durable glossy, stain resistant, homogeneous, synthetic granite or porcelain wall tiles, except vinyl and ceramic, of light tone color</td>
<td>184,178</td>
<td>pcs</td>
</tr>
</tbody>
</table>
1.3 **Contract Package 3** - Supply and delivery of **minor fixtures** (e.g.: Hand Dryer, Toilet Paper Dispenser, Trash Bins, Liquid soap dispenser, Person with Disability (PWD) grab rails, water pump and pressure tank, etc.)

<table>
<thead>
<tr>
<th>MINOR FIXTURES</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> HAND DRYER per toilet</td>
<td>Wall-mounted, heavy duty, high velocity sensor type hand dryer, AC 220v, color white, with energy saving mechanism</td>
<td>898</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>2</strong> FOOT DRYER (Airport and Seaport)</td>
<td>Wall-mounted, heavy duty sensor type foot dryer, AC 220v, color white, with energy saving mechanism</td>
<td>103</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>3</strong> Automatic (Airport/Seaport)</td>
<td>Wall-mounted, automatic soap dispenser, DC battery operated, with brush finish stainless casing</td>
<td>822</td>
<td>pcs</td>
</tr>
<tr>
<td>Manual</td>
<td>Wall-mounted, push type soap dispenser, with brush finish stainless casing</td>
<td>955</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>4</strong> Per Cubicle</td>
<td>30-liter capacity floor-standing open top type trash bin, with brush finish stainless casing</td>
<td>1,698</td>
<td>pcs</td>
</tr>
<tr>
<td>Per Toilet</td>
<td>30-liter capacity floor-standing open top type trash bin, with brush finish stainless casing</td>
<td>898</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>5</strong> DRUM-ROLL TOILET PAPER DISPENSER</td>
<td>Wall-mounted, round jumbo drum-roll toilet paper dispenser, color white</td>
<td>1,698</td>
<td>pcs</td>
</tr>
<tr>
<td>per cubicle</td>
<td>Wall-mounted paper towel dispenser, with brush finish stainless casing</td>
<td>218</td>
<td>pcs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MINOR FIXTURES</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7</strong> AIR FRESHENER per toilet</td>
<td>Wall-mounted, automatic air freshener dispenser, color white</td>
<td>546</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>8</strong> BIDET (Airport/Seaport)</td>
<td>Stainless flexible bidet spray and hose, at least 6mm Ø x 1.22m long hose</td>
<td>762</td>
<td>pcs</td>
</tr>
<tr>
<td>per cubicle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>9</strong> HAND SANITIZER (Airport) per toilet</td>
<td>Wall-mounted, sensor-type, chlorine- based hand sanitizer, color white</td>
<td>218</td>
<td>pcs</td>
</tr>
<tr>
<td><strong>10</strong> BABY/DIAPER CHANGING (Airport/Seaport)</td>
<td>Recessed-mounted foldable hard plastic changing tables, light tone color with high quality ABS/HDPE finish and with anti-</td>
<td>177</td>
<td>pcs</td>
</tr>
<tr>
<td></td>
<td>Item Description</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>---</td>
<td>----------------------------------------------------------------------------------</td>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>11</td>
<td>FLOOR DRAIN 100mm stainless steel floor drain with trap seal design</td>
<td>2,501</td>
<td>pcs</td>
</tr>
<tr>
<td>12</td>
<td>WATER PUMP 1hp Water Pump</td>
<td>157</td>
<td>pcs</td>
</tr>
<tr>
<td></td>
<td>WATER PUMP 2hp Water Pump</td>
<td>14</td>
<td>pcs</td>
</tr>
<tr>
<td>13</td>
<td>PRESSURE TANK 82-gal. stainless steel pressure tank</td>
<td>159</td>
<td>pcs</td>
</tr>
<tr>
<td>14</td>
<td>PWD GRAB RAILS 40mm Ø stainless steel L-Type (fixed) anti-bacterial ABS Grab Rail</td>
<td>1,757</td>
<td>pcs</td>
</tr>
<tr>
<td>15</td>
<td>EXHAUST FAN Ceiling-mounted, 12-in. exhaust fan with pipe ducts</td>
<td>271</td>
<td>set</td>
</tr>
</tbody>
</table>
1.4 Contract Package 4 – Supply and delivery of signages

<table>
<thead>
<tr>
<th>SIGNAGE</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Directional Signage</td>
<td>406.5mm x 160mm x 4.5mm acrylic directional signage with DOTC/ agency logos and in DOTC-approved design</td>
<td>342</td>
<td>pcs</td>
</tr>
<tr>
<td>2 Male</td>
<td>160mm x 160mm x 4.5mm acrylic individual toilet signage with DOTC/ agency logos and in DOTC-approved design</td>
<td>379</td>
<td>pcs</td>
</tr>
<tr>
<td>Female</td>
<td>160mm x 160mm x 4.5mm acrylic individual toilet signage with DOTC/ agency logos and in DOTC-approved design</td>
<td>375</td>
<td>pcs</td>
</tr>
<tr>
<td>PWD</td>
<td>160mm x 160mm x 4.5mm acrylic individual toilet signage with DOTC/ agency logos and in DOTC-approved design</td>
<td>251</td>
<td>pcs</td>
</tr>
<tr>
<td>Common</td>
<td>160mm x 160mm x 4.5mm acrylic individual toilet signage with DOTC/ agency logos and in DOTC-approved design</td>
<td>3</td>
<td>pcs</td>
</tr>
<tr>
<td>3 Cleaning Checklist</td>
<td>160mm x 160mm x 4.5mm acrylic cleaning checklist board with DOTC/ agency logos and in DOTC-approved design</td>
<td>1,008</td>
<td>pcs</td>
</tr>
<tr>
<td>4 Announcement Board</td>
<td>210mm x 297mm x 4.5mm acrylic announcement board with DOTC/ agency logos and in DOTC-approved design</td>
<td>1,008</td>
<td>pcs</td>
</tr>
</tbody>
</table>
1.5 Contract Package 5 – Granite countertop and accessories

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GRANITE</td>
<td></td>
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</tr>
<tr>
<td>Lavatory Countertop with fascia, splashboard,</td>
<td>60cm x 240cm x 18cm, 60cm x 220cm x 19cm, natural granite, solid jet black tone color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ledge</td>
<td>(refer to Annex “B” for Cutting List per Toilet per Agency)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Supply, Delivery, Cutting and Installation within NCR</td>
<td>912.44</td>
<td>sqm</td>
</tr>
<tr>
<td></td>
<td>• Supply and delivery for toilet facilities outside of NCR*</td>
<td>1,391.24</td>
<td>sqm</td>
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</tbody>
</table>

*Note: Pick-up, cutting and installation will be under CIVIL WORKS.
1.6 Contract Package 6 – Phenolic board and stainless accessories

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Technical Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHENOLIC BOARD</strong> includes</td>
<td>12 mm thick plain phenolic board (5 x 8), color beige with high grade stainless accessories which includes:</td>
<td></td>
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<tr>
<td></td>
<td>• Cubicle partition, door and ledge</td>
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<tr>
<td></td>
<td>• Urinal partition and ledge</td>
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<tr>
<td></td>
<td>• Footing (H=150mm or 6”),</td>
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<tr>
<td></td>
<td>• Top bar (L=6m, 50mmØ),</td>
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<tr>
<td></td>
<td>• U-Channel (L= 3.7m or 6 m),</td>
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<tr>
<td></td>
<td>• Lockset (inclusive of an indicator),</td>
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<tr>
<td></td>
<td>• Hinges (Left or Right),</td>
<td></td>
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<tr>
<td></td>
<td>• Handle,</td>
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<td></td>
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<tr>
<td></td>
<td>• Corner Fastener Brackets,</td>
<td></td>
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<tr>
<td></td>
<td>• Screws and</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• Headrail.</td>
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<td></td>
<td>(Refer to Annex “C” for Cutting List)</td>
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<td></td>
</tr>
</tbody>
</table>

(a) Supply, Delivery, Cutting and Installation within NCR

| | Cubicle partition with ledge and stainless accessories | 672 | Units |
| | Urinal Partition with ledge and stainless accessories | 360 | Units |

(b) Supply and delivery for toilet facilities outside of NCR*

| | Cubicle partition with ledge and stainless accessories | 916 | Units |
| | Urinal Partition with ledge and stainless accessories | 575 | Units |

*Note: Pick-up, cutting and installation will be under CIVIL WORKS.
# DOTC TOILET FACILITIES IMPROVEMENT PROJECT
## REVISED DISTRIBUTION LIST ON PROCUREMENT OF GOODS

<table>
<thead>
<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
<th>KEY CITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 and CAR</td>
<td>LTRFB: San Fernando City, La Union Regional Office</td>
<td>San Fernando City La Union</td>
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<tr>
<td></td>
<td>LTO: San Fernando City, La Union Regional Office</td>
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<tr>
<td></td>
<td>Alaminos City, Pangasinan District Office</td>
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<td></td>
<td>Lingayen, Pangasinan District Office</td>
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<td></td>
<td>Urdaneta, Pangasinan District Office</td>
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<td></td>
<td>LTO: Vigan City, Ilocos Sur District Office</td>
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<td></td>
<td>Candon City, Ilocos Sur District Office</td>
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<td>Laoag City, Ilocos Sur District Office</td>
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<td></td>
<td>Batac City, Ilocos Sur District Office</td>
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<td></td>
<td>(CAR) LTO: Baguio City, Mt. Province Regional Office</td>
<td>Baguio City</td>
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<tr>
<td></td>
<td>La Trinidad, Benguet District Office</td>
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<td>Bontoc, Mt. Province District Office</td>
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<td>Lamut, Ifugao District Office</td>
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<td>Tabuk Kalinga District Office</td>
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<td>Bangued, Abra District Office</td>
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<td></td>
<td>CAAP: Vigan, Ilocos Sur, Vigan Airport</td>
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<td>LTRFB: Tuguegarao City, Cagayan Regional Office</td>
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<td>Aparri, Cagayan District Office</td>
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<td>Gattaran, Cagayan District Office</td>
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<td>Roxas, Isabela District Office</td>
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<td>Ilagan, Isabela District Office</td>
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<td>San Isidro, Isabela District Office</td>
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<td>Cabangan, Isabela Extension Office</td>
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<td>Cabarroguis, Quirino District Office</td>
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<td>Bayombong, Nueva Vizcaya District Office</td>
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<td>Basco, Batanes District Office</td>
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<tr>
<td>REGION</td>
<td>Drop-off points/ Agency</td>
<td>Key City</td>
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</table>
| 3      | **LTO :** San Fernando City, Pampanga Regional Office  
          San Fernando City, Pampanga Licensing Office  
          San Fernando City, Pampanga Motor Vehicle Inspection Service  
          Angeles City, Pampanga District Office  
          Guagua, Pampanga District Office  
          Tarlac, Pampanga District Office  
          Iba, Zambales District Office | **San Fernando City**  
                                      **Pampanga** |
|        | **LTO :** Gapan, Nueva Ecija District Office  
          Baloc, Nueva Ecija District Office  
          Palayan City, Nueva Ecija Extension Office | **Gapan City** |
|        | **PPA :** PMO Limay  
          Orion, Bataan Port of Capinpin  
          Dingalan, Aurora Province Port of Dingalan | **Bataan** |
| 4      | **LTO :** Lipa City, Batangas Regional Office  
          Alaminos, Laguna Motor Vehicle Inspection Center  
          Pila, Laguna District Office  
          Lipa City, Batangas District Office  
          Lipa City, Batangas Motor Vehicle Inspection Center  
          Calapan, Oriental Mindoro Extension Office  
          San Jose, Occidental Mindoro District Office  
          Imus, Cavite District Office | **Batangas City** |
|        | **PNR :** Lucena City, Lucena Quezon Station  
          Lucena, Quezon Station  
          Tagkawayan, Quezon Station  
          San Pablo, Laguna Station | **Lucena City** |
<table>
<thead>
<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
<th>KEY CITY</th>
</tr>
</thead>
</table>
| 4      | **LTO** : Lucena City, Lucena District Office  
Romblon, Romblon District Office  
Boac, Marinduque District Office  
Gumaca, Quezon District Office  
San Pablo, Laguna Licensing Center  
PPA : TMO Lucena  
Lucena, Quezon Port of Lucena  
Romblon, Romblon Port of Romblon  
Sta. Cruz, Marinduque Port of Sta. Cruz  
Balanacan, Marinduque Port of Balanacan  
PPA : TMO Culion  
Culion, Palawan, Port of Culion  
PPA : PMO Puerto Princesa, Puerto Princesa Palawan  
Brookes Point, Palawan Port of Brookes Point  
LTO : Puerto Princesa, Puerto Princesa, Palawan District Office | **Puerto Princesa City**  
**Palawan** |
| 5      | **LTFRB** : Legazpi City, Albay Regional Office | **Legazpi City** |
|        | **LTO** : Legazpi City, Albay Regional Office  
Legazpi City, Albay District Office  
Sorsogon City, Sorsogon Office  
Mabate City, Masbate District Office  
Virac, Catanduanes District Office  
PNR : Naga City, Naga Station  
Sipocot, Camarines Sur Station  
Naga City, Camarines Sur Station  
Iriga City, Camarines Sur Station  
Legazpi City, Albay Station  
LTO : Naga City, Naga District Office  
Daet, Camarines Norte District Office  
Iriga City, Camarines Sur District Office  
Naga City, Camarines Sur District Office | **Naga** |
### DOTC TOILET FACILITIES IMPROVEMENT PROJECT
### REVISED DISTRIBUTION LIST ON PROCUREMENT OF GOODS

<table>
<thead>
<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
<th>KEY CITY</th>
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<tr>
<td></td>
<td><strong>LTO : Iloilo City, Iloilo Regional Office</strong></td>
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<td></td>
<td>Iloilo City, Iloilo Licensing Center</td>
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<td>Iloilo City Iloilo District Office</td>
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<td>Calinog, Iloilo District Office</td>
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<td><strong>PPA : PMO Iloilo</strong></td>
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<td>Jordan, Guimaras Port of Guimaras</td>
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<td><strong>CAAP : Roxas City, Capiz Roxas Airport</strong></td>
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<td>San Jose, Antique Antique Airport</td>
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<td></td>
<td><strong>LTO : Roxas City, Roxas City District Office</strong></td>
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<td>Roxas City, Capiz District Office</td>
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<td>San Jose, Antique District Office</td>
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<td><strong>PPA : TMO Culasi, Roxas City</strong></td>
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<td>Dumaguit, Aklan Port of Dumaguit</td>
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<td>Lipata, Antique Port of Lipata</td>
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<td><strong>LTO : Cebu City, Cebu Regional Office</strong></td>
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<td>Danao City, Cebu District Office</td>
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<td>Tagbilaran, Bohol District Office</td>
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<td><strong>CPA : CPA Headquarters</strong></td>
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<td>Argao, Cebu Port of Argao</td>
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<td>Santa Fe, Cebu Port of Santa Fe</td>
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<td>Olango Island, Cebu Port of Santa Rosa</td>
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<td></td>
<td><strong>MCIAA: Lapu -Lapu City, Cebu, Mactan-Cebu Airport</strong></td>
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</tbody>
</table>
# DOTC TOILET FACILITIES IMPROVEMENT PROJECT
## REVISED DISTRIBUTION LIST ON PROCUREMENT OF GOODS

<table>
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<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
<th>KEY CITY</th>
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<td><strong>PPA</strong> : PMO Dumaguete</td>
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<td>Tandayag, Negros Oriental Port of Tandayag</td>
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<td>Larena, Siquijor Port of Larena</td>
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<td>Siquijor, Siquijor Port of Siquijor</td>
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<td><strong>LTO</strong> : Dumaguete</td>
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<td>Negros Occidental Licensing Center</td>
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<td>Himamaylan City, Negros Occidental District Office</td>
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<td>Bais City, Negros Oriental District Office</td>
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<td>8</td>
<td><strong>LTO</strong> : Tacloban City, Leyte District Office</td>
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<td>Ormoc, Leyte District Office</td>
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<td>Ipil, Zamboanga District Office</td>
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<td><strong>CAAP</strong> : Zamboanga City, Zamboanga Zamboanga Airport</td>
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<td>Basilan, Basilan Port of Basilan</td>
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<td><strong>CAAP</strong> : Ozamis City, Misamis Occidental Ozamis Airport</td>
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<td>REGION</td>
<td>Drop-off points/ Agency</td>
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<td>Tacurong, Sultan Kudarat District Office</td>
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<td>Koronadal, South Cotabato District Office</td>
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<td>Surallah, South Cotabato District Office</td>
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<td>Alabel, Sarangani Extension Office</td>
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<td>CAAP : General Santos Airport</td>
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</tbody>
</table>
## DOTC Toilet Facilities Improvement Project
### Revised Distribution List on Procurement of Goods

<table>
<thead>
<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
<th>KEY CITY</th>
</tr>
</thead>
</table>
| **13** CARAGA | **LTO** : Butuan City, Agusan Del Norte Regional Office  
Butuan City, Agusan Del Norte Regional Office  
Patin-ay, Agusan Del Sur District Office  
**CAAP** : Butuan City, Agusan Del Norte Butuan Airport | Butuan City |
| | **PPA** : PMO Surigao  
Surigao City, Surigao Port of Surigao  
Dapa City, Surigao Del Norte Port of Dapa  
**CAAP** : Tandag, Surigao Del Sur Tandag Airport  
Bislig, Surigao Del Sur Bislig Airport | Surigao City |
| | **LTO** : Surigao City, Surigao District Office  
Surigao City, Surigao Del Norte District Office  
Tandag, Surigao Del Norte District Office  
Bislig, Surigao Del Sur District Office | |
| NCR | **MIAA** : MIAA Warehouse, MIAA Road, Pasay City  
NAIA Terminal 2  
NAIA Terminal 4  
**MIAA** : NAIA Terminal 3 (Villamor Air Base), Andrews Ave., Pasay City | Pasay City |
| | **LTO** : LTO Headquarters (Central Office)  
Quezon City Regional Office  
Quezon City District Office  
Quezon City Licensing Center  
Diliman District Office  
PUVRC/North MVIC  
Manila North District Office/  
Manila Licensing Center  
Manila East District Office  
Makati District Office  
Valenzuela District Office  
Kaloocan District Office/  
Kaloocan Licensing Extension Office  
Pasay District Office/ Pasay Licensing Center  
South MVIC/ PUVREC | Quezon City |
### DOTC TOILET FACILITIES IMPROVEMENT PROJECT
#### REVISED DISTRIBUTION LIST ON PROCUREMENT OF GOODS

<table>
<thead>
<tr>
<th>REGION</th>
<th>Drop-off points/ Agency</th>
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<tr>
<td>NCR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MRT3 : Depot North Ave., cor. EDSA North Triangle, Quezon City</td>
<td>Quezon City</td>
</tr>
<tr>
<td></td>
<td>LRTA : LINE 1 - LRTA Compound, Aurora Blvd., Pasay City</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LRTA : LINE 2 - LRTA Line 2 Depot, Marcos Highway, Pasig City</td>
<td>Pasig City</td>
</tr>
<tr>
<td></td>
<td>PNR : PNR Tutuban, Manila, Main Building, Engineering Department Calamba, Laguna Station</td>
<td>Manila</td>
</tr>
<tr>
<td></td>
<td>PPA : PMO North Harbor Culion, Palawan Port of Culion</td>
<td></td>
</tr>
</tbody>
</table>
Section VI. Specifications
Name of Project : “KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT (CONST./REHABILITATION OF TOILET FACILITIES)
Location : CLUSTER – REGION IV-A (PNR, PPA and LTO)
Duration : TWO HUNDRED SEVENTY (270) CALENDAR DAYS
Source of Fund : CY 2012

SCOPE OF WORK

A. PHILIPPINE NATIONAL RAILWAYS (PNR)
The project covers the construction/rehabilitation of toilet facilities with the following scope of works which shall be done in accordance with the approved plans, specifications and provisions of contract, to wit;

I SITE PREPARATION. This item covers the supply of labor and tools in preparation of the actual site condition prior to the start of the demolition works of the existing comfort room to be rehabilitated/renovated such as survey works, staking and laying out (please refer to plans).

II DEMOLITION WORKS. This item covers the supply of labor and equipment/tools in the demolition/removal of but not limited to affected walls, columns, ceilings, roofing and tiles, and toilet fixtures to be replaced with new ones (please refer to plans). This also includes turn-over of reusable materials to PNR, clearing and disposal of debris as per the engineer’s instruction.

III EARTHWORKS. This item covers the supply of all labor, materials and tools necessary to completed all ceiling works in accordance with the plans and technical specifications of the contract.

IV CONCRETING WORKS. This covers the supply of materials, labor and equipment/tools for the preparation of the works such as cutting of reinforcing steel bars, formworks and for the works on concrete pouring for columns, wall and column footings and for beams/girders (please refer to plans).

V MASONRY. This item covers the works for the supply of materials, labor and equipment/tools for the installation/laying of CHB walls (plastered finished with reinforcing steel bars (please refer to plans).

VI THERMAL AND MOISTURE PROTECTION. This item covers the supply of materials, labor and equipment/tools for the installation of new roofing affected by the demolition works and lean to aligned to existing station building roofing (please refer to plans).
VII **CEILING WORKS.** This item covers the supply of materials, labor and equipment/tools for the installation of new ceiling (please refer to plans).

VIII **ARCHITECTURAL WORKS.** This item covers the supply of labor, tools/equipment and other materials needed in the preparation of wall and floor tile surfaced and for the installation of new DOTC/PNR supplied (floor and wall) tiles, toilet paper holder and soap dispenses, hand drier, bag coat hangers, automatic air fresheners, diaper changing table, grab bar, exhaust fan, floor drain, signages, granites and phenolic boards and all its accessories delivered at Tutuban, Manila PNR Executive Building, to be hauled thereat by the contractor for its completion. The item for granite includes cutting and provision of holes necessary for the installation of lavatories, installation of granite countertops, ledges and splashboards. Likewise, the item for phenolic boards includes the cutting and installation of partition for water closet, ledges for water closets, partition for urinals and ledges for urinals. In addition the contractor shall supply and install all face mirrors (please refer to plans).

IX **PLUMBING WORKS.** This item covers the supply of labor and equipment/tools for the installation of new DOTC/PNR supplied water closet, urinal, lavatory and its accessories delivered at Tutuban, Manila PNR Executive Building to be hauled thereat by the contractor for its completion (please refer to plans).

X **ELECTRICAL WORKS.** This item covers the supply of materials, labor and equipment/tools for the installation works of new lightings, outlets, switches, electrical wirings and others for its completion (please refer to plans).

XI **PAINTING WORKS.** This item covers the supply of materials, labor and equipment/tools for the preparation of surfaces to be painted such as doors, concretes and woods (please refer to plans).

XII **CONSTRUCTION OF SEPTIC TANK.** This item covers all the materials, labor and equipment/tools for the completion of this lot item such as but not limited to site preparation, earthworks and concreting. Actual location of this septic tank will be as designated by the Engineer (please refer to plans).

XIII **CONSTRUCTION OF PUMP HOUSE.** This item covers all the materials, labor and equipment/tools for the completion of this lot item described above such as but not limited to site preparation, earthworks, concreting, masonry, roofing, plumbing (installation of DOTC supplied water tank and pressure gauge delivered at Tutuban, Manila PNR Executive Building – to be hauled thereat by the contractor), electrical and painting works. Actual location of this pump house will be as designated by the Engineer (please refer to plans).
B. PHILIPPINE PORTS AUTHORITY (PPA)

The project covers the construction/rehabilitation of toilet facilities with the following scope of works which shall be done in accordance with the approved plans, specifications and provisions of contract, to wit;

I DEMOLITION WORKS. This item covers the supply of labor for the demolition and disposal of existing concrete pavement.

II EXCAVATION WORKS. This covers the supply of labor for the excavation/earthworks for columns, footings, pipe paying and CHB foundation.

III CONCRETE WORKS. This work covers the supply of labor, materials and equipment for reinforced concreting of the foundation of the structure such as its footings, columns, beams, floor and deck slabs and countertops.

IV MASONRY WORKS. This item covers the supply of materials, labor and tools/equipment necessary for the installation of reinforced concrete hollow blocks walls and the supply and application of plain cement plaster as shown on the approved plans and in accordance with the specifications.

V CARPENTRY WORKS. This item covers the supply of labor and materials for the installation of ceiling as shown on the approved plans and in accordance with the specifications.

VI TILE WORKS. This item covers the supply of cement, sand and tile grout or adhesives and supply of labor required in cutting, laying, setting and installation of wall and floor tiles as shown on the approved plans and in accordance with the specifications. Works also provides the installation of granite countertop and its cutting/hole requirement for the undercounter lavatories and faucets. Floor tiles, wall tiles and granite slabs shall be supplied by the winning bidder of goods.

VII DOORS & WINDOWS. This item covers the supply of labor and materials for the installation of all doors, windows, jambs including hinges and door knobs, in accordance with the approved plans and specifications.

VIII ARCHITECTURAL WORKS. This item covers the supply of labor in the cutting, installation of phenolic boards partitions, doors and ledges, installation of toilet fixtures including its accessories and fittings, such as water closets urinals, lavatories, faucets, tissue holders, soap holders, soap dispensers, hand dryers, air fresheners, floor drains, bag/coat hangers, baby changing diapers and the supply and installation cost of bevelled mirrors, as shown on the approved plans and in accordance with the approved specifications.
IX  PLUMBING WORKS. This item covers the supply of labor and materials for installation of necessary pipes, fittings and accessories for the sanitary and water lines in accordance with the approved plans and specifications. The Contractor shall facilitate all permits being required by water service provider and sewerage company, if necessary.

X  ELECTRICAL WORKS. This item covers the supply of labor and materials for the complete electrical system, such as conduits, convenience and lighting outlets, wires and fittings for the installation of power and lighting outlets including the supply of lighting fixtures, in accordance with the approved plans and specifications.

XI  PAINTING WORKS. This item covers the supply of labor and materials for the painting of interior walls, doors, windows and ceiling and the entire exterior portion of the toilet structure.

XII  WATERPROOFING WORKS. This item covers the application of waterproofing compound (bituminous membrane) on the roof deck of the toilet structure.

XIII  CONSTRUCTION OF SEPTIC VAULT. This item covers the supply of labor and materials for the construction of septic tank and installation of an elevated water tank top the roof deck, as per existing concrete pavement, excavation, formworks, concreting, masonry works, pipe works and steel works for the tank’s pedestal.

C.  LAND TRANSPORTATION OFFICE (LTO)

The project covers the construction/rehabilitation of toilet facilities with the following scope of works which shall be done in accordance with the approved plans, specifications and provisions of contract, to wit;

I  SITEWORKS. This item covers the supply of labor and necessary equipment for uprooting of four (4) units of trees. This also covers the supply labor and materials for the site lay-out, clearing, excavation, backfilling, tampering, pouring of gravel beddings for all reinforced concrete foundation and preparation of slabs including pump shed.

II  CONCRETE WORKS. This item covers the supply of labor and materials for the concreting of wall footing, column footing, columns, slabs, roof beams and water pump shed. This also covers the supply of labor and materials for the fabrication, installation and removal of forms for the wall footing, column footing, columns, slabs, roof beams and water pump shed.

III  MASONRY WORKS. This item covers the supply of labor and materials for the installation/laying of all exterior and interior walls, parapet and entry porch walls, plant box and pump shed including steel reinforcement. This also includes the construction of all catch basin, plastering of all plant box, parapet entry and the installation of 48 units 0.20m x 0.20m louver blocks (please refer to approved plan).
IV **TINSMITHRY AND STEELWORKS.** This item covers the supply of labor, materials and tools/equipment for the fabrication and installation of roof framing and water pump shed. This also includes the application of metal primer paint on all steel roof frames, installation of GA #26 pre-painted corrugated long-span roofing, pre-painted end flashing (24”), pre-painted box type gutter (24”), GA #26 facia cover and application of silicone sealant, touch-up paint and other incidental labor and materials necessary for the completion of comfort rooms roofing and to complete the work based on plans.

V **PLUMBING WORKS.** This item covers the supply of labor and materials for the laying and installation of all water pipes including waterlines from existing water supply line to cistern tank. This also includes the installation of gate valve, check valve, water meter, all sanitary sewer pipe lines, clean-outs and downspouts.

VI **ELECTRICAL WORKS.** This item covers the supply of labor and materials for the installation of electrical wirings and conduit for lighting and power panel, lighting fixtures, outlets, switches and electrical devices, circuit breakers with enclosure for water pump, lighting panel and power panel, wirings and conduits from comfort room and water pump to main power panel. This also includes the installation of motor pump with accessories and three (3) units ceiling mounted exhaust fan (0.60m x 0.60m).

VII **ARCHITECTURAL WORKS.** This item covers the supply of labor and materials for the installation of ceiling joist, hanger and marine plywood ceiling. This also includes the painting of the whole comfort room and water pump shed, installation of one (1) set 1.0m x 2.10m tanguile kiln dry panel door with 2”x6”door jamb and hinges, installation of seven (7) sets 0.60m x 0.60m aluminium awning type window (powdered coated white) with 6.0mm thick clear glass, installation of two (2) sets 0.75m x 1.90m bevelled frameless wide glass mirror, one (1) set 0.75m x 0.80m bevelled frameless wide glass mirror, preparation of floor and wall surfaces for the installation of floor and wall tiles and/or plastering of concrete mortar and application of tile grout.

VIII **FIXTURES.** This item covers the supply of labor for the installation of seven (7) sets of floor mounted elongated bowl/water closets, four (4) sets under mounted/counter oval lavatory with pull-up type pop-up drain and faucet, one (1) set pedestal type lavatory, two (2) sets wall mounted urinal with high pressure manual lever type flush, three (3) sets hand dryer, three (3) sets hand washer/soap dispenser, seven (7) sets toilet paper dispenser, 2”diameter stainless grab rail, seven (7) sets coat/bag hanger, four (4) sets floor drain, CR sinage’s for one (1) male, one (1) female and one (1) PWD, installation and cutting/sanding of 5.27 sq.m. long bed granite counter top (0.60m wide) with splash board in accordance with the approved plans, cutting and installation of phenolic board partition, phenolic board ledge, phenolic board doors with stainless frame lockset and hinges, floor and wall tiles. This also includes the supply and equipment for the pick-up, delivery and safe handling of the above enumerated fixtures, water pump and accessories, pressure tank and ceiling mounted exhaust fan from Lipa City to project site.
IX  CONST. OF CISTERN/UNDERGROUND WATER TANK. This covers the supply of labor and equipment for the excavation works, supply of labor and materials for the construction of 1.8m wide x 2.30m long x 1.80m high reinforced concrete underground water tank, installation and removal of forms and scaffoldings, water proofing of underground water tank, plastering of inner surface and top of underground water tank and other necessary materials and labor to completed the construction of underground water tank.

X  CONSTRUCTION OF SEPTIC VAULT/TANK. This cover the supply of labor and materials for the excavation and construction of 2m x 4m long x 2m deep septic vault with three (3) chambers (please refer to approved plan).
1.1 SITE PREPARATION

1.1.1 GENERAL

The Work under this Section shall include complete demolition work of existing toilet and toilet facilities for toilet areas not conforming to the dimensions and measurements indicated in the standard plan for toilets of concerned DOTC attached agency. Demolition of all walls that deviate from the standard wall dimensions as indicated in the standard plan. All existing toilet fixtures shall be demolished. Clean up and disposal of all debris and other objectionable matter shall be implemented by the Contractor as directed by the Construction Officer.

1.1.2 REQUIREMENTS

Demolition in work shall consist of complete removal/demolition of the existing wall and floor tiles and toilet facilities referred to in the plans and in the Scope of Work.

The Contractor shall save the Government from any claim arising or resulting from such disposal operations.
2.2.1 GENERAL

Work under this section shall be subject to the requirements of applicable paragraphs of the General Conditions of Contract.

2.2.2 WORK INCLUDED

This work includes labor and equipment necessary for the demolition of all toilets which need to be rehabilitated to conform to the proposed standard plans of concerned agencies as specified in the scope of works.

2.2.3 WORKMANSHIP

2.2.4 STAKING OUT

The Contractor shall construct two permanent benchmarks of previously known elevations near the site of construction for purposes of determining any settlement that may occur during the construction.

2.2.4 WATER AND DRAINAGE

Contractor shall do everything necessary for keeping water out of excavations and away from building during construction.

1.2.4.4 BACKFILL

Backfill shall be installed against foundation walls in not more than 2” or 50mm. Backfill shall be carefully tamped. Debris shall not be used for backfilling.

1.2.4.5 GRADING

Finish grading shall include areas with limits shown on plot plan. Grades shall be reformed to easy contours in accordance with Drawings.
CONCRETE WORKS

3.1 CONCRETE SCOPE OF WORK

3.1.1 GENERAL

The Contractor shall furnish all labor, materials, equipment and incidentals necessary for the construction of all concrete work including reinforcing steel, forms, water stops and miscellaneous related items such as wall sleeves, anchor bolts and embedded items specified under other sections.

3.1.2 STANDARD SPECIFICATION REFERENCE

The following Standards are referred to:

- ASTM C31 Making and Curing Concrete Test Specimens in the Field
- ASTM C33 Concrete Aggregates
- ASTM C39 Compressive Strength of Cylindrical Concrete Specimens
- ASTM C42 Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
- ASTM C94 Ready-Mixed Concrete
- ASTM C143 Slump of Portland Cement Concrete
- ASTM C150 Portland Cement
- ASTM C231 Air Content of Freshly Mixed Concrete by the Pressure Method
- ASTM C260 Air-Entraining Admixtures for Concrete
- ASTM C494 Chemical Admixtures for Concrete
- ACI 301 Specifications for Structural Concrete for Buildings
- ACI 347 Recommended Practice for Concrete Form Work

3.1.3 GENERAL PROVISION

Concrete shall be site mixed or transit-mixed as produced by a plant acceptable to the Construction Officer.

When a small mixer is used, concrete placed under such conditions shall be mixed for not less than 1½ minutes after all the materials are in the mixer drum.

All testing shall comply with the latest applicable ASTM test Methods (ASTM C31 and ASTM C39). Samples of aggregate and concrete as placed will be subjected to laboratory tests and all materials incorporated in the Work shall conform to the approved samples.

3.1.4 PRODUCTS

3.1.4.1 MATERIALS

3.1.4.1.1 Cement
Cement shall be Portland cement of a brand approved by the Construction Officer and conforming to ASTM C150. Type I or Type II.

3.1.4.1.2 Aggregates

Fine Aggregate shall be washed inert natural sand conforming to ASTM C33, and shall range in size within the following limits of US Standard Sieve sizes.

<table>
<thead>
<tr>
<th>Sieve Designation</th>
<th>Percent (%) Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.75mm (No.4)</td>
<td>95 -100</td>
</tr>
<tr>
<td>2.36mm (No.8)</td>
<td>80 -100</td>
</tr>
<tr>
<td>1.18mm (No.16)</td>
<td>45 - 70</td>
</tr>
<tr>
<td>300 micron (No.50)</td>
<td>15 - 30</td>
</tr>
<tr>
<td>150 micron (No.100)</td>
<td>3 - 8</td>
</tr>
</tbody>
</table>

Maximum silt content - 2 percent

Coarse aggregate shall be well-graded crushed stone or washed gravel conforming to ASTM C33, having the following maximum size:

- 25mm - for plain concrete
- 20mm - for reinforced concrete sections

Maximum silt content - 1 percent

3.1.4.1.3 Water

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

3.1.4.1.4 Admixtures

Approved water reducing agent conforming for Ready to ASTM C494. Type A or D shall be used and shall entrain 3.0 to 5.0 percent air in the resultant concrete. Proportioning and mixing shall be as recommended by the manufacturer.

No other admixtures will be permitted except that an air entraining admixture, as a moderate addition to the water reducing agent may be employed if the water reducing agent does not give 3.0 to 5.0 percent air, but only with prior approval of the Construction Officer. Such air-entraining admixture shall comply with ASTM C260 and shall be compatible with the water reducing agent and have no chemical reaction between them in one solution.

The total entrained air measured at the discharge from the truck shall be a maximum 3.0 percent for finished slabs and 3.5 to 5.0
percent for all other concrete. Air shall be measured in accordance with the Pressure Method. ASTM C231.

If pumping concrete is approved by the Construction Officer then additional admixtures maybe submitted for the approval.

3.1.4.5 Grout
Where a non-shrink or expanding type grout be called for in the Drawings or specified herein an “expandable” compound, as approved by the Construction Officer, will be added to the cement grout mixture.

3.1.4.2 QUALITY OF CONCRETE
The actual development of mix proportions composed of Portland cement, admixtures, aggregates and water to produce concrete which conforms to the specific requirements shall be determined by means of prior laboratory tests performed by the Contractor with the approved constituents to be used in the Work.

3.1.4.2.1 Proportioning
Well advance of placing any concrete, the Contractor shall discuss with the Construction Officer the source of materials and concrete mixture he proposes to use. Representative samples of aggregate and cement and their test results shall be furnished to the Construction Officer.

The Contractor shall allow ample time to develop a proposed design mix or to modify the proposed design mix within the limits of these Specifications whenever, in the opinion of the Construction Officer, it becomes necessary or desirable.

The following minimum compressive strengths, water cement ratios and cement factors as indicated in Table A shall apply for regular and pumped concrete.

| TABLE A |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Minimum Compressive Strength at 28 Days (Mpa) (1) | Maximum Net Water Content (2) (Litres/100kg Cement) | Minimum Cement Content (3) (kg/M3) | Installation |
| Concrete Fill | 17 | 62.0 | 260 |
| All Structural Concrete | 21 | 55.0 | 320 |

Consistency of the concrete as measured by the requirements of ASTM C143 shall be as shown in Table B below:
TABLE B

<table>
<thead>
<tr>
<th>Type of Structure</th>
<th>Slump (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recommended</td>
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<tr>
<td>Pavement and slabs on ground</td>
<td>50</td>
</tr>
<tr>
<td>Plain footings, gravity walls, slabs and beams</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Heavy reinforced foundation walls and footings</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Thin reinforced walls and columns</td>
<td>75</td>
</tr>
</tbody>
</table>

No excessively wet concrete will be permitted. Concrete delivered to the site having a slump in excess of that specified in Table B will be rejected.

The temperature of the concrete, at the time of placement shall normally be 30°C or below, but shall never exceed 32°C. Any concrete delivered to the site of placement having a temperature above 32°C will be rejected. The Contractor will be responsible for employing whatever measures necessary to comply with these temperature requirements.

3.1.4.3 FORM WORKS

The contractor shall design, furnish and install all form works and supports required to confine the concrete and shape it to the lines shown in the Drawings. Forms will be required for any concrete surface that slopes more than 15° from the horizontal. Form design shall conform to ACI 347. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete and shall be sufficiently tight to prevent loss of mortar from the concrete.

Forms shall be made of either steel or new approved lumber and shall be free from roughness and imperfections.

Steel forms, if used shall be steel plate not less than 4mm thick. All bolt and rivet heads shall be countersunk. Clamps, pins or other connecting devices shall be designed to hold the forms rigidly together and to allow removal without injury to the concrete. The joints between the metal sheets shall be smooth and as nearly perfect as practicable. Use of forms with dents, buckled areas or other surface irregularities, or the burning of holes for form ties will not be permitted.

Form ties encased in concrete, other than those specified in the following paragraph, shall be designed such that after removal of the projecting part, no metal shall be within 25mm of the face of the concrete. That part of the tie to be removed
shall be at least 12.5mm in diameter, or shall be provided with a wood or metal cone with at least 12.5mm in diameter and 25mm long. Form ties in concrete exposed to view shall be the cone-washer type. Through bolts or common wire shall not be used for form ties.

Form ties exposed exterior walls shall be as specified in the preceding paragraph except that the cones shall be of approved wood of plastic.

The Contractor shall assume full responsibility for the adequate design of all forms. However, any forms which in the opinion of the Construction Officer are unsafe or inadequate in any respect may at anytime be condemned by the Construction Officer, additional forms are necessary to maintain the progress schedule, such additional forms shall be provided by the Contractor at his own expense.

An approved colorless mineral fill conforming to ASTM D1500, free of kerosene and with a viscosity of not less than 250 seconds at 100 Fahrenheit and a flash point not less than 300°F.

3.1.5 EXECUTION

3.1.5.1 MIXING OF CONCRETE

Mixing of ready-mixed or transit-mixed concrete shall conform to ASTM C94, and the requirements herein, and as approved by the Construction Officer. The Contractor shall furnish a statement to the Construction Officer for his approval, giving the dry proportions to be used, with evidence that these will produce concrete of the quality specified.

3.1.5.2 FORMS

Formwork shall be adequately braced tied to prevent movement. All shoring shall be periodically checked to ensure that member have not been dislodged or loosened during concrete placement. No wooden spreaders will be allowed in the concrete.

Forms shall be thoroughly cleaned before using and shall be treated with non-staining oil or other approved material and allowed to dry before placement of the reinforcement steel.

Molding or bevels shall be built into the forms to produce a 20mm chamber on all exposed projecting corners.

Forms for walls shall have removable panels at the bottom for cleaning, inspection and scrubbing-in of bonding paste. The size, number and location of such panels shall be subject to the approval of the Construction Officer. Alternative method for ensuring bonding to previously placed concrete may be used only his prior written approval.

Before form material is reused, all surfaces in contact with concrete shall be thoroughly cleaned, all damaged places repaired, all projecting nails withdrawn, and all protrusions smoothen.
3.1.5.3 PLACING OF CONCRETE

No concrete shall be placed until the forms, reinforcement steel, pipes conduits, sleeves, anchors and other embedded items have been inspected and approved by the Construction Officer. The Contractor shall advise the Construction Officer of his readiness to proceed at least 12 hours prior to each placement of concrete. No concrete shall be placed except in the presence of a duly authorized representative of the Construction Officer.

Pipe, conduits, dowels and other ferrous items required to be embedded in the concrete construction shall be positioned and supported prior to the placement of concrete such that there will be a minimum of 50mm clearance between said items and any part of the concrete reinforcement. Securing such items in position by wiring or welding it to reinforcement will not be permitted.

Before depositing any concrete, all debris, dirt and water shall be removed from the forms. The surfaces of previously placed concrete, such as vertical or horizontal construction joints, shall be roughened, cleaned of foreign matter and laitance to expose a fresh face and saturated with water at least two hours before and again shortly before the new concrete is placed. Immediately before the new concrete is placed, wherever possible, all hardened surfaces shall receive a thorough coating of neat cement slurry mixed to the consistency of very thick paste at least 5mm thick which shall first be well scrubbed-in by means of stiff bristle brushes. The new concrete then shall be placed before the neat cement sets up.

Concrete which upon or before placing is found not to conform to 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 Construction Officer, shall be removed and replaced by and at the expense of the Contractor.

Unless specifically approved in writing by the Construction Officer, concrete shall not be placed in water or stay submerged within 24 hours after placing, except for curing, nor shall running water be permitted to flow over concrete surfaces within 4 days after the placing of concrete.

Concrete shall be uniformly placed as near as possible to its final location in the forms. The placing of concrete in forms shall not exceed 0.60 meter of vertical rise per hour. The spreading of mounds of concrete with vibrators or by shoveling will not be permitted. Each lift shall be completed with an approximately horizontal upper plastic surface.
Chutes for conveying concrete shall be of metal, U-shaped and provided with a baffle plate at the end to prevent segregation. Chutes shall be placed at an angle of not less than 25 degrees, or more than 45 degrees from horizontal, and shall be kept clean and free from hardened concrete. Maximum length of chute to be traveled by the plastic concrete shall not be more than 1.50 meters. Chutes, hoppers, spouts, etc., shall be thoroughly cleaned before and after each run, and the water and debris discharged outside the Formwork.

Pumping of concrete will be permitted only with the approval of the Construction Officer, and under the following conditions:

a. The Construction Officer will inspect the pumping equipment and hose prior to placement of concrete. Any equipment, hose, or appurtenances not functioning properly, or which are otherwise unacceptable to the Construction Officer shall be replaced before pumping operations are started.

b. A fully operable standby complete concrete pumping unit shall be available at the site during any pumping of concrete.

c. The minimum diameter of hose or conduit shall be 100mm.

d. Aluminum conduits for conveying of concrete will not be permitted.

In the walls or columns of considerable height, the concrete shall be placed in such a manner as to prevent segregation and accumulation of hardened concrete on the forms or the reinforcement steel located above the concrete mass. In no case shall the free fall of concrete be permitted to exceed 1.50 meters below the ends of hoppers, chutes, ducts, tremies, hoses or “windows” in wall forms, without special approval of the Construction Officer.

Where water stop type construction joints are provided, special care shall be taken to ensure that the concrete is properly worked by rotting and vibration around the water stops to produce watertight joints, particularly in the case of horizontal water stops in slabs where the concrete must be in complete contact with the underside surfaces before any concrete is poured on the upper surfaces of the water stop.

Water stops shall be accurately positioned and securely held in place, and shall be protected at all times to prevent damage or displacement. Any damage to, or displacement of water stops shall be corrected by the Contractor to the satisfaction of the Construction Officer.

3.1.5.4. TAMPING AND VIBRATING

During and immediately after depositing the concrete, compaction shall be carried out by experienced operators using high-speed internal mechanical
vibrators. Care shall be taken to ensure that vibration is continued long enough to produce optimum consolidation but without permitting segregation of the aggregates or migration of air.

At least one vibrator shall be used for every 8 cubic meters of concrete placed per hour and, in addition, two spare vibrators in operating condition shall be available on the site.

Vibrators including suitable tamping bars or forked tools shall be supplemented by proper wooden spade pudding adjacent to forms and rodding around embedded fixtures to remove trapped air bubbles, and to prevent honeycombing.

3.1.5.5 CURING AND PROTECTION

It is the intent of these Specifications and to obtain properly cured concrete. The Protection basic requirement of proper curing is to maintain continuous moist surface from the time of placing the concrete until the end of curing period. All details of the Contractor’s curing procedures and materials used shall be subject to the Construction Officer’s approval. The use of curing compounds may be acceptable but shall require prior approval in writing by the Construction Officer.

The Contractor shall protect all concrete work against injury from the elements and defacements of by nature during construction operations.

All exposed surfaces including finished surfaces shall be treated immediately after concrete has been poured, to provide continuous moist curing for at least 7 days. Walls and vertical surfaces may be covered with continuously saturated burlap or kept moist by other approved means. Horizontal surfaces, slabs, etc., shall be pounded to a depth of 15mm or kept continuously wet by means of sprinklers or other approved methods.

Formed surfaces shall be thoroughly soaked with water at least twice each day until the forms are removed.

Where finishing of concrete surfaces is performed before the end curing period, the concrete shall under no circumstances be permitted to dry out and shall be kept continuously damp by means of a fog spray of water from the time the concrete has been placed until the end of the curing period.

3.1.5.6 REMOVAL OF FORMS

The Contractor shall not remove any forms for at least 48 hours or until the concrete has attained a strength of at least 30 percent of the ultimate strength. This is equivalent to approximately 50 day-degrees of moist-curing. Day-degree represents the total number of day’s times the average daily air temperature in °C at the surface of the concrete, e.g. 2 days at an average temperature of 25°C equals 50 day-degrees.
Forms for beams and slabs shall not be stripped for at least 150 day-degrees and supports shall not be removed until the concrete has attained at least 60 percent to the specified 28-day strength and is capable of safely supporting its own weight. Construction live loads shall not be placed upon it until the concrete has attained its specified 28-day strength.

Forms shall be stripped such that they will not damage the concrete. Notwithstanding the specified minimum stripping times mentioned above the Contractor is ultimately responsible for the safety of all structures.

### 3.1.5.7 REPAIR OF DEFECTIVE CONCRETE

Defective or honeycombed areas, as determined by the Construction Officer, shall be chipped down to at least 25mm deep into sound concrete by means of chisels or chipping hammers. If honeycombs around reinforcement steel, a clear space at least 10mm wide shall be chipped all around the steel.

For areas than 40mm deep, the patch may be made for filling form tie holes, etc.

Thicker repairs will required build-up in successive 40mm deep layers on successive days, and each layer shall be applied with neat cement paste as described in paragraph 2 above.

For very deep patches the Construction Officer may order the use of a non-shrink grout, with or without the addition of pea gravel. The materials shall be composed of 1 to 1½ cement/sand mortar without non-shrink grout components to prevent rust staining of the surface. After hardening, the patch shall be rubbed as for filling form-tie voids.

All exposed concrete surfaces and adjoining work stained by spilling or leakage of concrete shall be cleaned to the satisfaction of the Construction Officer.

All cracks that appear in the concrete prior to acceptance of the work shall be “veed” and filled with sealant.

### 3.1.5.8 EVALUATION AND ACCEPTANCE

After the removal of the forms any concrete, judged by the Construction Officer as defective and beyond repair, shall be rejected, demolished and replaced with new concrete in a manner acceptable to the CO. The evaluation and acceptance of concrete shall be in accordance with Chapter 17 of ACI Standard 301.
3.1.5.9 INSPECTION

Installation of reinforcing steel, pipes, sleeves, anchors and other embedded items, batching, mixing, transportation, placing, curing and finishing of concrete shall at all times be subject to the inspection of the Construction Officer.

No concrete shall be placed without prior notice to and approval of the Construction Officer.

3.1.5.10 FIELD CONTROL

Sets of four (4) field control cylinder specimens will be taken at random by the Construction Officer, in conformity with ASTM C31. Generally, approximately one (1) per 50 cubic meters, but not less than one (1) set per day will be made during concreting operations.

Two (2) cylinders will be tested after 7 days and two cylinders after 28 days. Compressive tests, in accordance with the Standard test described in ASTM Method C39, will be performed by a laboratory acceptable to the owner, and paid directly by the Contractor.

The Contractor shall provide the concrete for the test cylinders and such auxiliary personnel and equipment needed to take the test specimens.

3.1.5.11 FIELD TESTING

Should the average strength of the 28-day test specimens be less than that specified in Table A, the Construction Officer may require drilled core samples from the portion of the structure which was determined by him to represent the deficient 28-day test specimens.

If the strength of any of the drilled core samples is less than the minimum requirements shown in Table A, the Construction Officer may direct the Contractor to strengthen or replace the portions of the structure concerned at the Contractor’s expense, and the Construction Officer’s satisfaction.

Drilled core samples shall be taken and tested in accordance with ASTM C42 except that they shall have an L/D ratio of not less than 1.25 prior to capping for testing. All core samples so tested shall be tested in a saturated state.

All costs associated with the cutting and preparing of drilled core samples shall be done by the Contractor. Testing of the drilled core samples shall be at the expense of the Contractor.

Slump tests, entrained air measurements, temperature, and testing of admixtures will be made in the field by the contractor at his own expense in the presence of the Construction Officer.
3.2 CONCRETE REINFORCEMENT

3.2.1 GENERAL

3.2.1.1 SCOPE OF WORK
The Contractor shall furnish, fabricate and install all steel bar and tie wire, clips, supports, chairs and spaces required for the reinforcement of concrete, as shown on the Drawings and/or specified herein.

3.2.1.2 STANDARD SPECIFICATION REFERENCE
The following Standards are referred to:

ASTM A82 Cold Drawn Steel Wire for Concrete Reinforcement
ASTM A497 Welded Deformed Steel Wire Fabric for Concrete Reinforcement
ASTM A615 Deformed Billet Steel Bars for Concrete Reinforcement
ASTM 315 Manual of Standard Practice for Detailing Reinforced Concrete Structures

3.2.1.3 SHOP DRAWINGS
The Contractor shall submit three (3) sets of completely detailed working drawings and schedules of all reinforcement for review to the CO. The bending diagrams and bar lists shall be detailed in accordance with ACI 315.

Fabrication of reinforcement steel shall not proceed until the construction joint locations and the shop drawings have been reviewed by the CO and returned to Contractor marked “No comment”.

3.2.1.4 SUBSTITUTIONS
The following reinforcing steel bar sizes shall be used for all reinforced concrete design under this Contract:

<table>
<thead>
<tr>
<th>Bar Designation</th>
<th>Approximate Cross Section Area (mm²)</th>
<th>Approximate Unit Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10</td>
<td>78</td>
<td>0.616</td>
</tr>
<tr>
<td>#12</td>
<td>113</td>
<td>0.888</td>
</tr>
<tr>
<td>#16</td>
<td>201</td>
<td>1.579</td>
</tr>
<tr>
<td>#25</td>
<td>492</td>
<td>3.854</td>
</tr>
<tr>
<td>#28</td>
<td>615</td>
<td>4.833</td>
</tr>
<tr>
<td>#32</td>
<td>804</td>
<td>6.313</td>
</tr>
<tr>
<td>#36</td>
<td>1018</td>
<td>7.991</td>
</tr>
</tbody>
</table>

Should the Contractor wish to use reinforcing steel bars having areas different from those shown (with consequent different designations), the following requirements shall apply.
If the proposed substitute bar has an area from 97% to 105% of the designated bar, a direct substitution may be made without changes to bar spacing.

If the proposed substitute bar has an area less than 97% of the designated bar, the substitution may be unacceptable without changes in bar spacing. If the proposed substitute bar has an area more than 105% of the designated bar, changes in spacing may be proposed by the Contractor. Changes in spacing are limited to a maximum spacing of 300mm. All proposed changes shall be submitted to the CO for approval.

Proposed changes spacing shall be submitted to the CO for consideration by way of the reinforcing arrangement drawings required as shop drawings. These should not be prepared until the CO's sanction in principle to the substitution has been obtained and the CO's guidelines received on such related criteria as maximum and minimum spacing and bond requirements.

Approval by the CO of bar size substitution does not relieve the Contractor from other specified requirements including steel grade and bar deformations.

3.2.2 PRODUCTS

3.2.2.1 MATERIALS

Reinforcement steel shall be deformed, new billet steel bars conforming to ASTM A615, grade 40 substantially free from mill scale, rust, grease or other foreign matter.

Rail-steel bars will not be permitted in the work.

Reinforcement steel shall bear a mill identification symbol, and shall be tagged with the size and mark number so that different types may be identified and shall be stored off the ground to protect the steel moisture and dirt, until placed in final position.

Steel wire for tying reinforcing and waterstops shall conform to ASTM A82.

Welded wire fabric for concrete reinforcement shall conform to ASTM A497. Welded intersections shall be spaced no further apart than 40cm in the direction of the principal reinforcement.

3.2.3 EXECUTION

3.2.3.1 FABRICATION OF REINFORCEMENT

Reinforcement steel shall be accurately formed to the dimensions shown on the shop drawings and bar schedules.
All reinforcing bars shall be bent cold around a pin with a free revolving collar having a diameter proportional to the diameter of the bar of not less than the following:

a. Two times for stirrups.

b. Six times for bars up to and including 25mm diameter.

c. Eight times for bars over 25mm diameter.

Reinforcement steel shall not be straightened nor rebent. Bars with kinks or bends not shown on the Drawings will not be accepted.

3.2.3.2 INSTALLATION OF REINFORCEMENT

Reinforcing bars shall be accurately placed as shown on the Drawings and in accordance with the shop drawings and schedules. The reinforcing bars shall be secured against displacement with annealed iron wire ties of minimum 1.5mm diameter or suitable clips at the intersections.

Except as otherwise indicated on the Drawings, reinforcement steel shall be installed with a clearance for concrete cover follows:

a. Concrete placed directly on earth 75mm

b. Formed surfaces in contact with the soil, water or exposed to the water 50mm

c. Concrete cover of main reinforcement steel for columns and beams 50mm

d. Walls not in contact with the soil, water or exposed to the weather 40mm

e. Underside of slabs over water surfaces but not in contact with the water 50mm

f. All other slab surfaces 25mm

No reinforcing bars shall be welded.

All reinforcing bars in slabs shall be supported on concrete cubes or chairs of the correct height, containing soft steel wires embedded therein for fastening to the reinforcement steel. Such spacers or chairs shall have a minimum compressive strength of 21 Mpa.

Reinforcing bars for vertical surfaces in beams, columns and walls shall be properly and firmly positioned from the forms by means of stainless steel (tipped) boisters or other equal methods approved by the CO.
Reinforcement steel projecting from structures that are to be concreted or where concrete has already been poured shall not be bent out of its correct position.

Lapping of reinforcing bars shall be as indicated on the Drawings.

Before being placed in position, reinforcing bars shall be thoroughly cleaned of rust, scale, dirt and other coating. When there is delay in placing of concrete after reinforcing bars are in place, bars shall be re-inspected and cleaned when necessary.
4.1 GENERAL

4.1.1 SCOPE OF WORK

The work includes furnishing all labor, materials, and services, equipment, plant and other facilities and the satisfactory performance of all work necessary to complete all cement and masonry work shown in the plans and specified herein.

The work under this section shall include but not be limited to the following:

3.1.1.1 CONCRETE HOLLOW BLOCK WALLS

3.1.1.2 MASONRY REINFORCING BARS FOR CONCRETE BLOCKS

3.1.1.3 GROUTING

3.1.1.4 CONNECTING WALL ANCHORS, TIES, BOLTS AND RELATED EMBEDDED ITEMS.

3.1.1.5 INSTALLATION ONLY OF FRAMES FOR DOORS, WINDOWS, LOUVERS, STEEL LINTELS AND RECESSED FIXTURES.

4.1.2 STANDARD SPECIFICATION REFERENCES

The following Standards are referred to:

- ASTM C32 Concrete Aggregates
- ASTM C90 Hollow Load-Bearing Concrete Masonry Units
- ASTM C144 Aggregate for Masonry Mortar
- ASTM C150 Portland Cement
- SAO No.15-2 Standardization of Concrete Hollow Blocks

4.1.3 PROTECTION OF MATERIALS

All materials for the work of this section shall be delivered, stored and handled so as to preclude damage of any nature. Manufactured materials, such as cement, shall be delivered and stored in their original containers, plainly marked with identification of material and maker. Materials in broken containers, or in packages showing watermarks or other evidence of damage, shall not be used and shall be removed from the site.

4.1.4 SAMPLES

The contractor shall submit to the CO for approval samples of concrete blocks, and also information on the cement and sand such as chemical analysis of cement and the sieve analysis of sand.
4.2 MATERIALS

4.2.1 CEMENT

Cement shall be normal Portland cement conforming to ASTM Specifications C150, Type I. Masonry cements shall not be used. One color of cement shall be used throughout the Work.

4.2.2 SAND FOR MORTAR

Sand shall be clean, durable particles, free from injurious amounts of organic matter. The sand shall conform to ASTM Specifications C144 or C33 as required. Sand for grout shall conform to ASTM Specifications C144 or C33 as required.

4.2.3 WATER

Water shall be free from injurious amounts of oils, acids, alkalis, organic matter, and shall be clean and fresh.

4.2.4 CONCRETE HOLLOW BLOCKS (CHB)

3.2.4.1 CLASSIFICATION

Concrete block shall conform to ASTM C90, Grade N, and/or to the Philippine Bureau of Standards SAO No. 15-2. The load bearing concrete blocks, Type I, shall be divided into the following two classification:

4.2.4.1.1 Class A, for use in exterior walls below grade and for exterior walls above grade that may be exposed to the weather.

4.2.4.1.2 Class B, for general use in walls above grade not exposed to the weather.

4.2.4.2 MANUFACTURING REQUIREMENTS

Concrete hollow blocks shall be manufactured to the requirements as shown in Table I.

TABLE I

<table>
<thead>
<tr>
<th>Minimum Face Shell Thickness (mm)</th>
<th>Compressive Strength Minimum (Average Gross Area) (Mpa)</th>
<th>Water Absorption Maximum (KN/cu.m.)</th>
<th>Moisture Content Percentage of Total Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample</td>
<td>Average of 5 Samples</td>
<td>Individual Sample</td>
<td>Average of 5 Samples</td>
</tr>
<tr>
<td>A</td>
<td>6-9</td>
<td>5.5</td>
<td>240</td>
</tr>
<tr>
<td>B</td>
<td>4-8</td>
<td>4.1</td>
<td>240</td>
</tr>
</tbody>
</table>
Aggregate for concrete blocks shall consist of sand and evenly graded pea gravel conforming to ASTM C33.

All concrete hollow blocks shall be even textured with straight and true edges, wet steam cured for at least 18 hours and then air cured in covered storage for not less than 28 days before delivery to the job site.

Units when received at the construction site shall be stacked so as to provide air circulation, and shall be protected from the weather. The moisture content of hollow blocks when laid shall not exceed 35 percent of total absorption.

4.2.4.3 DIMENSIONS
The actual dimensions of the concrete hollow blocks shall be as shown in Table II below.

<table>
<thead>
<tr>
<th>NOMINAL DIMENSIONS (mm)</th>
<th>ACTUAL DIMENSIONS (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Height</td>
</tr>
<tr>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

No overall dimension shall differ from the specified actual dimensions by more than 3mm.

4.2.4.4 MINIMUM FACE SHELL AND WEB THICKNESS
The following dimensions shown in Table III below shall apply for minimum face and web thickness:

<table>
<thead>
<tr>
<th>NOMINAL WIDTH (mm)</th>
<th>MINIMUM FACE SHELL THICKNESS (mm)</th>
<th>MINIMUM WEB THICKNESS (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>150</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>200</td>
<td>32</td>
<td>25</td>
</tr>
</tbody>
</table>

4.3 MORTAR MIXES
Masonry mortar for setting blocks shall be in the proportion of 1 part cement to 3 parts sand or as otherwise approved by CO. Mortars shall be mixed with water in an amount compatible with workability ingredients shall be accurately measured by volume in boxes especially constructed for the purpose by the Contractor.

Mixing shall be done immediately before usage, and the Contractor shall use the Dry-Mix method. In the Dry-Mix method, the materials for each batch shall be well fumed together until the even color of the mixed dry materials indicates that the cementitious material has been thoroughly distributed throughout the mass, after which the water shall be gradually added until a thoroughly mixed mortar of the required plasticity is obtained.

Mortar boxes shall be cleaned out at the end of each day’s work and all tools shall be kept clean. Mortar that has begun to set shall not be used or retampered.

The mixing of mortar by hand will be permitted only when the quality of hand mixing is comparable to mechanical mixing. The CO reserves the right to reject hand mixing and require all mixing by mechanical means. Mortar shall not be retained for more than 1-1½ hours and shall be constantly mixed until used.

Pointing mortar shall be prehydrated mortar mixed dry and water added while mixing to obtain a damp, or workable mix. After one or two hours, sufficient water shall be added to bring it to proper consistency, which shall be somewhat drier than masonry mortar.

The color of mortars shall be uniform throughout for adjoining areas, and shall be satisfactory to the CO.

4.4 EXECUTION

4.4.1 INSTALLATION

4.4.1.1 GENERAL
All masonry shall be laid plumb and true to lines and built to the thickness and bond required with courses level and joints and bond uniform. Masonry shall be carried up in a uniform manner. No one portion shall be raised more than one meter above adjacent portions, except with the approval of the CO.

4.4.1.2 APPLICATION
4.4.1.2.1 Scratch Coat
Cross scratch as soon as scratch coat has attained initial set and apply brown coat as soon as practicable.

4.4.1.2.2 Brown Coat
Scratch or brown finish shall be allowed to set hard. Keep brown coat moist until finish coat is applied.

4.4.1.2.3 Finish Coat
Bring to true, even surfaces with rods, darbles and trowel smooth, leaving finished surface free from tool marks and blemishes. Keep
cement plaster moist for at least 3 days and protect against rapid drying until cured.

4.4.1.2.4 Patching
Patch plaster shall be done prior to preparation for painting works.

4.4.1.3 CONCRETE HOLLOW BLOCK
Concrete blocks shall be laid in running bond, unless otherwise indicated, with joints not exceeding 10mm and uniform throughout and finished slightly concave and smooth. Pointing shall be performed with the proper tools to a dense and neat finish. Finger pointing will not be allowed. All blocks shall be laid in a full bed of mortar applied to shell and webs. Apply mortar to the vertical joints of blocks that have already been set in the wall and all contact faces of the unit to be set. Each unit shall be placed and shoved against the previously laid block so as to produce a well compacted vertical mortar joint for the whole shell thickness. Intersecting bearing walls shall be tied together with metal ties at 0.80 meter vertical spacing. Bends of tie and reinforcing bars shall be embedded in cells filled with mortar.

All necessary block cutting shall be neatly done by saws.

Control joints shall be installed at the locations noted and detailed on the Drawings. The joints shall be raked out to a depth 20mm for the full height of the walls and caulked. The maximum length between joints shall be 10 meters if not shown otherwise on the Drawings, or directed by the CO.

All horizontal and vertical reinforcing bars shall be anchored at a minimum of 20 bar diameter into the concrete walls, columns, slabs and girders.

Joints made at the intersection of block walls with structural concrete and all door, window and louver frames and where indicated shall be filled with mortar grout and pointed.

Unless otherwise shown on the Drawings, install all door, window and louver frames using screws and expansion shields, and set all frames tightly against the masonry walls.

3.4.1.4 CONCRETE HOLLOW BLOCK TO BE PlASTERED
Concrete block wall which are to be plastered shall be laid in running bond. Joints are to left rough to assist in the bounding of plaster. Otherwise, concrete block masonry shall conform to the previous paragraph 2-Concrete Hollow Block.

3.4.1.5 CONCRETE HOLLOW BLOCK TO BE TOOLED JOINTED
Concrete block walls to be tooled jointed as indicated on the Drawings shall be laid in stack bond with uniformly maintained joints not exceeding 13mm. All joints shall be tooled smooth to a stripped finish as soon as the mortar has set sufficiently. No cold chiseling will be permitted. Finishes shall be as indicated in the Drawings.

4.4.2 LINTELS, TIES AND MISCELLANEOUS ITEMS
The Contractor shall build in all miscellaneous items specified in other sections to be set including frames, lintels, reinforcing steel, electrical boxes and fixtures, sleeves, anchors and other miscellaneous items. All anchorage attachments and bonding devices shall be set so as to prevent slippage and shall be completely covered with mortar.

4.4.3 GROUTING

Grout and cement mortar for setting structural columns, railings, frames in walls and where otherwise required shall be done with mortar of 1 part cement to 1 part sand. Before placing grout thoroughly clean all surfaces. Grout shall be tamped into place with a blunt tool to fill the entire void. In the event space does not permit tamping, the Contractor shall build the necessary forms and place the grout by pouring from one side only. When grout is placed by pouring, a head of grout shall be maintained in the form. Grout shall be kept wet for three days and after the temporary supports or adjusting wedges are removed, the empty spacer shall be grouted and the surrounding grout pointed.

4.4.4 CLEANING

All exposed masonry work shall be thoroughly cleaned. Mortar smears and droppings on concrete block walls shall be dry before removal with a trowel. Masonry work may be cleaned using a mild muriatic acid solution.

4.4.5 STORAGE AND HANDLING

Masonry units shall be handled with care to prevent chipping and breakage. Storage piles, stacks or bins shall be so located as to avoid being disturbed or shall be barricaded to protect chase materials from damage due to construction operations and traffic. Masonry units shall be stacked on platforms and covered or stored in any other approved manner that will insure the protection these materials from weather. Cement and lime shall be stored off the ground under watertight cover and away from sweating walls and other damp surfaces until ready for use. Damaged or deteriorated materials shall be removed the premises.
5.1 DESCRIPTION

The work includes the furnishing of all labor, materials, equipment and transportation required to complete fabrication, delivery and erection of all structural steel indicated in the drawings and herein specified.

5.2 REFERENCE

The following publications of the issues listed below, but referred to thereafter by basic designation only, form part of this specification to the extent indicated by the reference thereto:

American Institute of Steel Construction (AISC) Publications:

- Manual of Steel Construction - 7th Edition, including Supplements 1, 2 and 3.

American National Standards Institute (ANSI) Publications:

- B27.2 Plain Washers

American Society for Testing and Materials (ASTM) Publications:

- A27 or A148 Cast Steel
- A36 Structural Steel
- A53 Steel Pipe
- A12-73 Zinc (Hot-Galvanized) Coating on Products Fabricated from Rolled, Pressed and Forged Steel Shapes, Plates, NBA’s and Strips.
- A153-73 Zinc-Coating (Hot Dip) on iron and Steel Hardware.
- A325-76C High Strength Bolts for Structural Steel Joints, including suitable Nuts and Plain Hardened Washers.
- A550-77 Cold-Formed Welded and Seamless Carbon Structural Tubing in Rounds and Shapes.

American Welding Society (AWS) Publications:
5.3 REQUIREMENT

In conformance with the General Conditions, the Contractor is required to furnish a certificate from the manufacturer or producer, certifying that all materials or products delivered to the job site meet the measurements specified herein.

5.4 SHOP DRAWINGS

The Contractor shall submit shop drawings to the Construction Engineer for approval in accordance with the General Conditions. Shop Drawings shall consist of all shop and erection details. All members and connection for any portion of the structure shown or not shown on the contract drawings shall be detailed by the fabrication and indicated on the shop symbols in accordance with the American Welding Society (AWS) Structural Welding Code.

5.5 MATERIALS

Materials shall conform to the respective publications and other requirements specified herein and as shown, and shall be the approved products of manufacturers regularly engaged in the manufacture of such products.

- Structural Steel shall conform to ASTM A36.
- Structural Tubing shall conform to ASTM A500 or A501.
- Steel Pipe shall conform to ASTM A53, Grade b.
- Cast Steel, except as specified otherwise, and shall conform to ASTM A27 or A148, as applicable. Castings to be welded shall be of composition suitable for welding under field conditions.
- High Strength Bolts, including Nuts and Washers, shall conform to ASTM A325.
- Plain Washers, other those in contact with high strength bolt heads and nuts shall conform to ASNI Standard B27.2, Type B.
- Welding Electrodes and Rods shall conform to AWS A5.1, E60XX series.
- Zinc Coating for threaded products shall conform to ASTM A153 and ASTM A123 for structural shapes.

Materials shall be delivered, stored, handled and installed in a manner to protect them from all damage curing the entire construction period. Storage conditions shall be approved by the Construction Officer in accordance with the General Conditions.
5.6 FABRICATION

5.6.1 GENERAL

Structural Steelworks material shall be in accordance with the applicable provisions of these specifications. Fabrications and assembly shall be done in the shop to the greater extent possible. Structural siteworks, except surfaces of steel to be encased in concrete and surfaces of friction-type high-strength bolted connections, shall be prepared for painting in accordance with the section entitled PAINTING and primed with paint material specified. All materials shall be cleaned and straight. If straightening is necessary, it shall be done by a process and in a manner that will not damage the material.

Shearing, Flame cutting, and Chipping, shall be done carefully and accurately. Flame-cut edges of members shall have all knicks removed. The top and bottom surfaces of base plates, cap plates of columns and pedestals, sole plates, and masonry plates shall be planned, or be hot straightened, and parts of members in contact with them shall be faced. Sole plates of beams and girders shall have full contact with the flanges. Compression joints, depending upon contact bearing, shall have bearing surfaces machined to a common plane after the members are completed. Bolts shall not be made or enlarged by burning. Members that cannot be fitted up properly by cutting with a saw or by reaming holes to a maximum holes elongation of 3mm larger than the nominal diameter will be rejected unless other correction is approved by the Construction Officer. Gas cutting (Flame cutting) shall be done by the use of mechanically guided torch. The use of a gas torch in the field will not be permitted on any major member in the structural framing under stress, and shall be subject to the approval of the Construction Officer. The radius of re-entrant flame cut fillets shall not be less than 13mm, and all burned edges shall be finished by grinding.

5.6.2 WELDED CONSTRUCTION

Welding on structural steelworks and tubular structures shall be done in accordance with the applicable standards for welding of AWS Code D1.1.

5.6.2.1 QUALIFICATION OF WELDERS

Welding work shall only be performed by certified welders qualified in accordance with the requirements of the AWS D1.1.

5.6.2.2 PROCEDURES

Welding procedures, type of electrodes, and type of equipment required for the work shall be in accordance with the applicable provisions of AWS D1.1. Type of electrodes to be used shall be compatible with the metal to be welded.
5.6.3 BOLTED CONSTRUCTION

Holes for bolts shall be 1.5mm larger than the nominal diameter of bolt. Holes shall be clean cut, without torn or rugged edges. Outside burrs resulting from reaming or drilling shall be removed. Bolt holes shall be at right angles to the member. The slope of bolted parts in contact with the bolt head shall not exceed 1:20 with respect to a plane normal to the bolt axis. Where the surface of a bolted part has a slope of more than 1:20, a beveled washer shall be used to compensate for lack of parallelism.

5.6.3.1 COMMON BOLTS

Bolts transmitting shear shall be threaded to which a length that is not more than one thread will be within the grip of the metal and the bolt shall be of such length that they will extend entirely through the nuts, with the beveled end outside of the nut. Bolt heads and nuts shall be drawn tight against the work with a suitable wrench. Bolt threads shall be tapped with a hammer while the nut being tightened.

5.6.3.2 HIGH-STRENGTH STEEL BOLTS

The allowable working stresses for high-strength steel bolts shall be as given in ASTM A325. Bolted parts shall not be solidly together when assembled and shall not be separated by gaskets or any other interposed compressible materials. When assembled, all joints surfaces, including those adjacent to the bolts heads, nuts, or washers, shall be free of scale, except tight mill scale, and shall also be free of burrs, dirt, and other foreign material that would prevent seating of the parts. Contact surfaces within the friction type of joints shall be free fasteners in the joint are tight, at least the minimum bolt tension shown in ASTM A325, for the size of fastener used. Threaded bolts shall be tightened with properly calibrated wrenches or by the “turn-of-the nut” method. Any bolt tightened by the calibrated wrench method (or by torque control) shall have a hardened washer under the element (nut or bolt head) turned tightening.

5.6.3.3 MATCH MARKING

Members and component parts of structures shall be assembled and matched marked prior to insure accurate assembly and adjustment of position on final erection. Painted assembly markings shall be removed from many surfaces to be welded or bolted. Scratch or notch marks shall be located in a manner that will not affect the strength of the members or cause concentrations of stress.

5.6.3.4 SHOP PAINTING

Except as otherwise specified, all structural steelworks, except zinc-coated surfaces and steelworks to be embedded in concrete or mortar, shall be shop primed in accordance with the section entitled PAINTING.
5.7 ERECTION

5.7.1 GENERAL

Except as modified herein, erection shall be in accordance with the applicable specifications and standards of the AISC Manual of Steel Construction. Erecting equipment shall be suitable for the work and shall be in first class condition. Safety belts and lines shall be used by workmen aloft on high structures, unless safe working platforms or safety nets are provided.

5.7.2 ANCHORAGE

Anchor bolts and other connections between the structural steel and foundations shall be provided and shall be properly located and built into the connecting work.

5.8 BASE AND BEARING PLATES

Base plates for columns and bearing plates for beams, girders and similar members shall be provided with full bearing after the supported members have been plumbed and properly positioned. The area under any plate bearing on concrete or masonry shall be dry-packed solidly with grout.

5.9 ASSEMBLY

All members shall be adjusted to the well planed or bolted and rigidly made together during final bolting or welding. Drifting done during assembling shall not distort the metal or enlarge the holes. The member shall be free from twists, bends and other deformation. The frame of steel structures shall be carried up true and plumb as shown and shown and all match markings shall be followed.

Temporary bracing shall be used whenever necessary to support all loads to which all the structure may be subjected and shall be left placed as long may be required for safety. The various members forming parts of a completed frame or structure after being assembled shall be aligned and adjusted accurately before being fastened. Fastening of splices of compression members shall be done after the abutting surfaces have been brought completely into contact. No welding or bolting shall be done until as much of the structure as will be stiffened hereby has been aligned properly. Bearing surfaces and surfaces which will be in permanent contact shall be cleaned before the members are assembled. Bearing plates shall be set in exact position and shall have a full and even bearing upon the masonry. As erection progresses, the work shall be bolted or welded sufficiently to take care of all dead load, wind and erection stresses. Splices will be permitted only where indicated. Erection bolts used in welded construction may be tightened securely and left in place, unless otherwise indicated.

Field Bolting shall be in accordance with the requirements specified for the shop fabrication. Unfair holes shall be corrected by reaming.

Field welding shall be as specified for shop fabrication of welded construction. Any shop paint on surface adjacent to joints to be field welded shall be wire brushed to reduce the paint film to a minimum.
5.10 **FIELD REPAIR OF ZINC COATING**

All zinc-coating that has been damaged in handling, transporting, welding or bolting shall be repaired in accordance with the COATING section entitled PAINTING.

5.11 **FIELD PRIMING**

After erection, the field bolt heads and nuts, field welds, and any abrasions in the shop coat shall be cleaned and primed in accordance with the section called PAINTING.

5.12 **PAINTING**

The type of paint, the number of coats, and the extent of the painting shall be in conformance with the section entitled PAINTING. In general, all exposed surfaces of steel work shall be painted. Surfaces where the shop coat has been damaged shall be retouched using the same system as the original shop painting. Surfaces which will be contact after erection, except when in contact in welded or bolted connections, shall be given one finish coat or welds and the areas adjacent thereto shall be done promptly after the acceptance of the weld and shall be as specified under shop painting.

5.13 **INSPECTION**

Inspection shall be made promptly to permit immediate correction of defects. The inspector will mark each piece which is accepted, with the mark assigned to him. Unrestricted inspection shall be conducted in both shop and field, to verify preparation, size, gauging, location, acceptability of welds, identification marking and operation and current characteristics or welding sets in use. The procedure for calibration of wrenches and installation of bolts shall be subject to the approval of the Construction Officer. The inspection and testing of welds shall be performed by the Contractor as deemed necessary by the Construction Officer all at the expense of the Contractor, and shall be in accordance with the applicable provisions of AWS Code D1.1.

5.14 **FINAL CLEAN UP**

Upon completion of erection and before final acceptance, the erector shall remove from the jobsite all falseworks, rubbish, and temporary structures furnished by him.
6.1 WOODWORK

6.1.1 SCOPE OF WORK

The work includes furnishing of all materials and equipment and labor required to complete wood works. See drawings and details for location and quantity of woodwork required.

6.1.2 MATERIALS

5.1.2.1 SOLID WOOD
Kiln dried quarter sawn containing not more than 14% moisture so as not to impair its strength and finish. Trade mark is required on each piece of lumber.

5.1.2.3 PLYWOOD VENEER
Plywood veneer shall be first quality, sound back, grain and color to match solid hardwood.

6.1.3 WORKMANSHIP

All joints shall be tight and formed to conceal shrinkage. Shop miters 100mm or more from heel shall be glued and locked. Provide dowels and tendons to fit. Make shop joints with water proof glue. Assemble panelwork in such a manner as to allow free movement of panels. Prime or stain panel before framing into place. Applied moldings shall be secured to stifles and rails and not to panels.

All framing shall be done as far as possible with carefully fitted mortise and tendon joints.

All exposed woodwork shall be smoothly dressed and well sandpapered.

All upper windows, transoms or other openings where so indicated in plans, shall have frames coming in contact with concrete shall be anchored by means of 20d nails spaced not more than 0.20m apart, all around the contact surfaces. All frames shall be ribbed, molded and cut with wash undercut for water drips.

Fastening shall be common nails of flat head wood screw (F.H.W.S.), round head woodscrew (R.H.W.S.), bolts or log screws as specified or called for, or adhesives approved by the Construction Officer.

Conceal fastenings whenever possible, and where not possible, locate them in inconspicuous places. Where nailing is permitted through facing woodwork, use conceal heads.
6.1.4  MANUFACTURE

Manufacture of woodwork shall be approved by the Construction Officer.

6.1.5  MEASUREMENT

Check and verify measurements at site prior to fabrication. Coordinate work with all other related trades.

6.1.6  SAMPLES

Submit all samples cabinetry using veneers and panelworks for Construction Officer’s approval.

6.1.7  PROTECTION

Protect cabinetry and panelwork by temporarily covering with heavy building paper or other means to protect from damage until completion of building.

6.2.      ROUGH CARPENTRY

6.2.1  SCOPE OF WORK

Furnish all materials and equipment and perform labor required to complete all rough carpentry works as indicated on the Plans and in this Specification.

6.2.2  MATERIAL

6.2.2.1  LUMBER

Moisture Content must not exceed 20%. Lumber shall be of approved quality, of the respective kinds and required for the various parts of the work, well-seasoned, thoroughly dry and free from large, loose or unsold knots, sap, shakes or other imperfections impairing its strength, durability or appearance.

6.2.2.2  PLYWOOD

Unless otherwise indicated or specified, use 1/4” x 4’ x 8’ ordinary plywood and marine plywood for comfort rooms.

6.2.2.3  ROUGH HARDWARE

Plates, straps, nails, spikes, screws and metal bolts, hangers, dowels, fasteners and fasteners miscellaneous iron and steel items shall be of sizes and types to rigidly secured members in place.

6.2.3  STORAGE

Stack framing for lumber and plywood to insure against deformation and maintain proper ventilation.

Protect lumber and plywood from hazardous elements.
Lumber in contact with concrete or masonry shall be coated with asphalt.

6.2.4 WORKMANSHIP

6.2.4.1 FRAMING
Framing shall be cut square on bearings, close fitted, accurately set to required lines and levels and rigidly secured in place, plane and dress side frames that will received the wallboards or sidings.

6.2.4.2 FURRING AND NAILERS
Wood furring and nailers shall be in accordance with detail drawings. Where not indicated on the Plans or mentioned herein, furring strips shall be 1” x 2” spaced at 16” on center both ways. Fasten wood furring securely by expansion bolts other approved device at every two (2) feet on centers. Wood plugs shall not be used.

6.2.4.3 WOOD STUD PARTITION
All wood partitions indicated in the drawings shall be of the material specified and constructed in accordance with detailed drawings. For plywood partitions use 6mm thick, unless otherwise shown on the drawings. Tanguile plywood shall be “A” class quality. Plywood shall be as shown on the drawings with its corresponding thickness and V-cut joints as indicated.

Plywood partitions shall be nailed on 50 x 50 x 50 x 100mm Apitong salt-treated spaced 400mm. o.c. with joints shown on the drawings and shall be done together with all trimmings, casings for openings, copings, and baseboards, in accordance with the provisions of the preceding paragraph.

Door trims (casings) and moldings shall be of the lumber sizes shown on detailed drawings.

6.2.5 SCHEDULES

Treated Apitong or Tanguile lumber shall be used for:

- Vertical and horizontal studding of wood partitions.
- Ceiling nailers and ceiling joints (if required).
- Wood wall shelves, cabinets.
- Baseboards.
- Interior flush doors.
- Other related rough lumber works.

Well-seasoned Yakal or approved equivalent shall be used for:

- All plates, plugs and other portions of the work directly in contact with concrete masonry.
- Door jambs
- Nailing and furring strips, grounds, sleepers, blocking screeds, etc.

Treated plywood shall be used for all acoustic plywood backing.
Narra, kiln-dried and of uniform color, shall be free from loose knots and imperfections for all molding and handrail requirements.

6.3 FINISH CARPENTRY

6.3.1 WORK INCLUDED

Furnish all materials and equipment and perform all labor required to complete:

- Running and standing trim
- Moldings
- Wooden door frames (if required)
- Lumber and solid wood panel
- Plywood and hard-boards
- Built-in cabinets and countertops
- Other Decorative Wood Work

6.3.2 MEASUREMENT & COORDINATION

Check and verify measurements at site prior to fabrication. Coordinate work with all other related trades.

6.3.3 MATERIALS

6.3.3.1 LUMBER

Kiln-dried quarter sawn containing not more than 14% moisture content, free from imperfections impairing its strength and finish. Trademark is required on each place of lumber.

6.3.3.2 PLYWOOD

For interior, use Class “A” plywood and marine plywood for comfort rooms. Thickness shall conform to the schedule and drawings.

6.3.3.3 SAMPLES

Submit samples of woodwork for Construction Officers approval.

6.3.4 WORKMANSHIP

All wood finish shall be true to details, clean and sharply defined. Panels must be set to allow free movement in case of swelling of shrinkage. Means of fastening various parts together shall be concealed.

6.3.4.1 FINISHES

Mill, fabricate and erect interior finish as indicated on the Plans. Machinesand at the mill and hand-sand smooth at the jobsite.

Interior trim set against concrete, masonry or wood shall be separated with ¼ inch stone-cut joints.
Intersecting plywood veneers or plywood panels shall be finished with a corner wooden trim with same kind as the plywood.

Make joints tight and in a manner to conceal shrinkage. Secure trim with the finishing nails, screws, or glue where required.

Set nails for putty stopping.

Window and door trim shall be single length.

Miter moldings at corners, cope and angles.

6.3.4.2 WOODEN DOOR
Set door frames plumb and level and jambs, and brace until built-in. Anchor wood heads frames to masonry with approved metal anchors on each side of jamb. Provide top and bottom anchors at 200mm from head and floor.
7.1 ROOFING

7.1.1 DESCRIPTION

The work includes installation of pre-painted Rib-type Long-span roofing complete with hardware and accessories.

7.1.2 GENERAL

The work includes furnishing all materials and requirements performing all operations to provide a long span corrugated twin ribbed roofing and miscellaneous roofing works as required to provide an acceptable installation. Surfaces to which metal formed roofing sheets are to be applied shall be thoroughly cleaned and prepared, free from any defects that may affect the application. Metal formed roofing shall be locked and lapped and installed as applicable. Specific installation details shall be in accordance with manufacturer’s recommended installation practice.

Metal formed roofing and sheets and accessories shall be carefully handled at all times in strong and handling to prevent damage to the surfaces, edges and ends and shall be slightly elevated for drainage.

Metal formed roofing and sheets and accessories shall be delivered to the site in the original sealed container or packages bearing the manufacturer’s name and brand designated where materials are covered by a reference specification number, type and class as applicable.

7.1.3 INSTALLATION

Lay and install the first sheet with the turned down edge towards the outside of the area to be covered. Overlap the next sheet to the previous sheet in such a manner that the exposed edge is turned down and the covered edge is turned up. Side up fasteners should be done by rivets and washers spaced from 300 mm to 450 mm on centers.

Care should be exercised in the proper anchorage of all roof frames.

Ridge strips for ridge rolls and ridge flashings are attached to the roofing sheets by means of rivets. Other flashings are to be fabricated from plain sheets of the same materials as the roofing in accordance with details and/or site requirements. These are also attached to roofing sheets by means of rivet.

7.1.4 TEMPORARY PROTECTION

Metal formed roofing sheet surfaces requiring protection from stains, discoloration, surface abrasion and other construction abuses shall be suitably protected in accordance with the manufacturer’s recommendations.
7.1.5 FINAL CLEARING

Upon completion, the Contractor shall clean the metal formed roofing sheets surfaces and drain line of burrs, leaves, stones and other foreign matter that may impair the flow of water. Surface shall be kept clean by periodic inspection.

7.2 RADIANT HEAT BARRIER

7.2.1 SCOPE OF WORK

The Contractor shall furnish and install all labor and material to complete the work.

7.2.2 MATERIAL

7.2.2.1 RADIANT BARRIER

Radiant Barrier shall be fire retardant aluminum foil for roof insulation. It shall have a 6 layer fire retardant double-sided aluminum foil laminate with superior radiant heat barrier properties. It shall be tearproof, waterproof and possesses the following properties.

- **Elongation**: 150% ASTM D882
- **Water Vapor Transmission**: Greater than 5000 Mns/g
  - ASTM E96-E
- **Water Vapor Permeance**: Less than 0.20 ng/Ns
  - Less than 0.004 (Perms)
  - ASTM E96-E
- **Tensile Strength**: M.D. 6.6 KN/m
  - D.D. 5.0 KN/m
  - C.D. 4.7 KN/m
  - ASTM 828
- **Puncture Resistance**: 1.0 Joules
  - T.APPA T800
- **Reflectivity**: 86% ASTM E466-71
- **Emissivity**: 5%
- **Roll Size**: 1.25m x 60m = 75.00 sq.m.
- **Weight**: 200 g/m2
- **Thickness**: 0.190mm
- **Total R-Value (M2K/W)**: 1.72
- **Fire Retardant BS476**: Part 6 Class 0
  - Part 7 Class 1

7.2.3 WORKMANSHIP

The product shall be delivered to the site in its original package or container bearing the manufacturers name and brand designation.

All materials shall be installed by skilled and selected workmen familiar with the aforementioned product.

7.2.4 INSTALLATION
The installation shall have a joint overlap of 75mm. It shall be unrolled foil down length of roof from ridge.

For further information, see manufacturer’s specifications.

7.3 ELASTOMERIC WATERPROOFING MEMBRANE

7.3.1 SCOPE OF WORK

The Contractor shall furnish and install all materials and labor required to provide waterproofing on designated locations.

7.3.2 MATERIAL

Elastomeric waterproofing membrane shall be liquid applied single component and made by a reputable manufacturer.

7.3.3 PREPARATION

All surfaces to be waterproofed should be clean, sound and dry. Concrete surfaces should have a light steel-trowel followed by a fine hair-broom or equivalent finish that is dry and free from dust, oil and other contaminants. Remove all high spots. Moss and lichen must be removed physically followed by treatment with fungal wash down through and allow to dry. Lattence should be removed from concrete by grit blasting, wire brushing or water jet blasting and allowing to dry.

For installation procedure and other information, see manufacturer’s specification.
8.1 VINYL DOOR SYSTEM

8.1.1 SCOPE OF WORK

Furnish and install all labor and materials to complete all vinyl doors and jambs (hinges included) as shown on the drawings and as specified herein.

8.1.2 GENERAL REQUIREMENT

Doors shall be of the quality and workmanship acceptable to the Officer. Doors shall be of the size and type indicated in the schedules and as specified herein guarantee finished doors against twisting, warping, cracking and such other defects due to construction and installation for a period of three hundred sixty days after final acceptance of the building.

8.1.3 INSTALLATION

Hinged doors shall be hung plumbed and fitted accurately allowing 1.5 mm clearance at the jambs and heads and 3 mm over thresholds. Clearance at the bottom of doors having no threshold shall be 9 mm. Lock stiles of doors 35 mm thick and thicker shall be leveled 3 mm. Knob locks and latches shall be installed 964 mm from the finished floors to the center.

8.2 METAL / WOODEN FLUSH DOORS

8.2.1 SCOPE OF WORK

Furnish and install all labor and materials to complete all metal flush doors as shown on the drawings and as specified herein.

8.2.2 GENERAL REQUIREMENT

Doors shall be of the quality and workmanship acceptable to the Construction Officer. Doors shall be of the size and type indicated in the schedules and as specified herein. Guarantee finished doors against rust, twisting, and such other defects due to construction and installation for a period of three hundred sixty days after final acceptance of the building.

8.2.3 SHOP DRAWINGS AND INSPECTIONS

Shop drawings showing fabrication and installation details of doors shall be prepared prior to manufacture and submitted to the Architect for approval.

After shop fabrication and before painting of doors, the work shall be inspected under attendance of the Construction Officer and Inspection reports shall be submitted to him/her.
8.3 STEEL WINDOWS

8.3.1 GENERAL REQUIREMENT

All steel windows shall be products of reputable and nationally known manufacturers approved by the Construction Officer. Unless otherwise indicated, all window frames shall be constructed to withstand a minimum 1225 N/sq.m., windload with the sashes in closed position. Windows shall be designed for glazing from outside with continuous glazing heads.

The Contractor shall submit to the Officer shop drawings for approval showing design, elevation of windows, full of size sections of sash, frames and mullion, hardware, construction and assembly details. Details of anchorage, erection, proposed location and method of jointing and splicing of the unit to be installed shall be clearly shown. Fabrication shall not commence until these shop drawings have been submitted and approved.

8.3.2 MATERIALS

Window members shall be low-carbon, new hot-rolled steel frame. Vent sections shall be Zee-bars not less than 25mm in depth or 3mm in thickness for light section 32mm depth for heavy sections. All members shall be special sections hot-rolled from new billet steel. Munitions when required shall be 22mm x 32mm rolled tee sections.

8.3.3 CONSTRUCTION

Corners of frames and vents shall be mitered and electrically welded, exposed surfaces ground smooth.

Munitions shall be attached to frame or vent members by means of mortise tendon joints and riveted. Muntin intersections shall be of inter-locking design with flush interior surfaces.

Hinges shall have bronze-to-steel contact surfaces throughout. Hinge pins shall be steel, rustproof.

Double, full contact weathering shall be provided between vents and frames around the entire perimeter of each vent.

Windows shall be designed for glazing from the outside with angle glazing clips and steel sash putty. All unit shall be prepared for and supplied with necessary standard hardware.

8.3.4 HARDWARE

Hardware for doors and windows shall be acceptable foreign or local products of the types, material, sizes and mechanism as indicated on the drawings, and shall be free from any mark or other defect. For Construction Officer’s approval. Manufacturers of hardware items shall be as listed below or approved equals:
Yale, Schlage or equivalent for locksets, door closed.
Yale, Alona, Shows or equivalent for hinges.

Samples of each type of hardware shall be submitted to the Architectural approval.

Hinges and door closers shall be the type size and capacity as indicated on the drawings, however, the Contractor shall verify each hardware item as to weight and other load of doors and windows, and minor modifications may be made without change in construction cost.

Each vent shall be a solid bronze, polished, cam locking handle and strike.

8.3.5 SHOP FINISH

All windows shall be given one shop coat of approved rust inhibitive of the type standard with the steel window manufacturer.

8.3.6 GLAZING

Glazing shall be as specified under the Section entitled GLASS AND GLAZING.

8.3.7 PAINTING

Refer to the Section entitled PAINTING.

8.3.8 PROTECTION AND CLEANING

The Contractor shall be responsible for protecting the windows during construction and for cleaning at the completion of the building.

8.5 GLASS GLAZING

8.5.1 SCOPE OF WORK

This section of work includes furnishing of glass and labor required to complete all glass and glazing works.

8.5.2 MATERIALS

8.5.2.1 PLATE GLASS
Plate glass used shall be mechanically ground and polished, distortion-free surfaces. Use where good vision is required.

8.5.2.2 FLOAT GLASS
Manufacture by “floating” continuous ribbon of molten glass onto a bath of molten tin where it is reheated to obtain a flat, fire-polished finish. It is then allowed to cool to a degree permitting it to be drawn on rollers in a long oven and then annealed.
8.5.2.3 SHEET GLASS
Drawn either vertically or horizontally into sheets, then cut to size. Characterized by fire-polished surfaces with some inherent wave or distortion usually prominent in one direction.

8.5.2.4 MIRROR
Silvering quality float glass, ¼ inch thick, recommended specifically for high humidity usage, double silvered produced by a coat of electro-deposited copper. Furnish with edges polished, in one place unless otherwise indicated on the drawing or approved.

8.5.2.5 GRADING
Grade AA - Intended for uses where superior quality is required.
Grade A - Intended for selected glazing.
Grade B - Intended for general glazing.

8.5.2.6 GLAZING MATERIALS
Mastic - elastic compounds and non-skid compound.
Putties - wood sash putty and metal sash putty
Sealants: Synthetic polymer - based sealants - resilient or non-resilient type.
Performed caskets - Compression type, structural type.

8.5.3 WORKMANSHIP
Glass for glazing shall be cut and finished by grinding accurately to true sizes to set with equal bearing on the entire width of pane. Glass shall be set properly with glazing putty and angle glazing chips for windows, and with glazing beads for doors.

8.5.3.1 SAMPLES AND SUBMITTALS
Submit samples of panel glass not less other than 2” x 3” and glazing materials in lengths not less than 6” for Construction Officer’s approval.
Submit manufacturer’s specifications and recommendations for glazing conditions specified herein. Submit certificates of compliance, certifying conformity with requirements of this specification.

8.5.3.2 DELIVERY
All glass shall be carefully packed for transportation, exercising reasonable precaution to insure avoidance of damage during transit. Care shall be insured in unloading, unpacking and storage on arrival at jobsite to avoid damage. Deliver all glazing accessory materials in manufacturer’s original unopened containers, clearly marked as to their contents.

8.5.3.3 STORAGE
Store all materials at the job site, in a manner assuring its safety from all forms of damage. Protect glass from soiling, condensation, etching, etc. Follow manufacturer’s recommendations properly.

8.5.3.4 GLAZING
Prevent glass from all contact with metal or any hard or sharp materials by use of resilient shims placed at quarter points. Use resilient sealants. Use
stops in sizes permitting a “good grip” onto the glass. Install glass only in opening that are rigid, plumb and square. Allow sufficient clearance at edges of glass to compensate for its expansion or for some settlement of the building. Clearance should be ¼ from edge to frame and 1/8” for face, markings, banners, posters and other decal shall not be spelled directly to glass surface as these could cause thermal stress. Removal of party of glazing compound smears from glass shall be performed by the glazing contractor during the materials normal work life. Failure to do so may result in damage to the glass.
FINISHES

9.1 CEMENT FINISHES

9.1.1 SCOPE OF WORK

This work includes furnishing of all materials, equipment and labor, and other facilities necessary to complete all scored cement finish.

9.1.2 MATERIALS

Normal Portland Cement conforming to ASTM Standard C150.

Sand shall be hard, sharp, well washed, siliceous, clean and free from deleterious materials conforming to ASTM Specifications C40.

9.1.3 WORKMANSHIP

Thoroughly clean concrete surface of all dirt, dust, oil patches and other foreign matters. Apply the 1:2 mix cement mortar, trowelled and leveled in accordance with the required slope in the plane. After the mortar has hardened initially, apply scored finish in accordance with the approved sample.

9.2 CEMENT MORTAR

9.2.1 GENERAL

Plastering work shall be properly coordinated with the work of other trades. The work of other trades shall be adequate protected from damage during plastering operations. Finishing work shall be protected with a covering of heavy Kraft waterproof paper or other approved protective covering with lapped and sealed joints. Scaffolding shall be amply strong, well braced, tied, securely and inspected regularly. Overloading on scaffolding shall not be permitted.

9.2.2 DELIVERY, STORAGE AND HANDLING OF MATERIALS

Manufactured materials shall be delivered in the manufacturer’s original unbroken packages or containers which are labeled plainly with the manufacturer’s names and brands. Cementitious materials shall be kept dry until ready to be used. They shall be stored off ground under cover and away from seating walls and other damp surfaces.

9.2.3 MATERIALS

Portland cement shall conform to the Standard Specifications ASTM C-150, Type 1, latest edition.

Sand shall be hard, sharp, well-washed, siliceous, clean and free from deleterious materials, conforming with ASTM C-40.
Water shall be fresh, clean and free from organic matter, acids and alkalis.

9.2.4 MIXTURE

Plaster materials, specified on a volumetric basis, shall be measured accurately in approved containers that will insure the specified proportion. Measuring materials with shovels (shovel count) shall not be permitted. Mortar for plastering shall be mixed in the proportion by volume of one part Portland Cement, 3 parts sand and 25% part hydrated lime. Mortar for finish coat shall be of the same proportioning as specified for plastering expect that proportion of sand be increased to not more than 4 parts.

9.2.5 WORKMANSHIP

Plastering work shall be finished level, plumb, square and true with a tolerance of 0.30mm to 3.00mm, without waves, cracks, blisters, pits, crazings, discoloration’s, projections, or other imperfections. Plastering work shall be formed carefully around angles, contours, and well up to screeds. Special care shall be taken to prevent sagging and consequent dropping of applications. There shall be no visible junction marks in the finish coat where one day’s work adjoining another.

9.2.6 APPLICATION

Surfaces to receive plaster shall be cleaned of all projections, dust, loose particles, grease bond breeders and other foreign matter. Plaster shall not be applied directly to (a) concrete masonry surfaces that have been coated with bituminous compound (b) surfaces that have painted materials or previously plastered. Before the plaster work is started, masonry surfaces shall be wetted thoroughly with fog spray of clean water to produce a uniformly moist condition. Metal grounds, corner beads, screed and other accessories shall be checked carefully for alignment before work is started.

Brown coat shall be applied with sufficient pressure to fill the grooves in hollow block of concrete to prevent air pockets and secure a good bond. Brown coat shall be lightly scratched and broomed. Each coat of cement plaster shall be kept moist for 48 hours after application and then allowed to dry.

Finished coat shall be applied until after brown coat has seasoned for 7 days. Just before application of the finished coat, brown coat shall again be evenly moistened with fog spray. Finished coat shall be floated first to a true and even surfaces then trowelled in a manner that will force the sand particles down into the plaster. Plastered surfaces shall be smooth and free from rough areas, trowel marks, checks and blemishes. Thickness of plaster shall be 3/8” on vertical concrete and on masonry.

9.3 PLAIN CEMENT WITH FLOOR HARDENER

9.3.1 SCOPE OF WORK
This work includes furnishing all labor, materials, equipment, and other facilities, and the satisfactory performance of all work necessary to complete all plain cement with floor hardener work specified herein.

9.3.2 MATERIALS

Floor hardener shall be non-rusting and on titanium base, to provide extreme hard and highly abrasion and impact resistant floors. It shall be monolithic bonded with base concrete, impact resistant, oil and grease resistant, dense and non-porous, free from rust-stain, easy to install and highly abrasion resistant. Verify color.

9.3.3 WORKMANSHIP

9.3.3.1 DELIVERY

Materials shall be delivered to the site in their original packages of containers bearing the manufacturers name and brand designation.

9.3.3.2 PREPARATION

Floor hardener shall be prepared and applied strictly in accordance with the manufacturer’s printed instruction. Flat troweling shall be done keeping the trowel flat and only after the surface has sufficiently set, a second and flat trowelling shall be done. Continue trowelling process until the desired surface finish is achieved.

9.3.3.3 CONSUMPTION

- Heavy duty: 4 - 6 kg/sq.m. Floor Hardener
- 4 - 6 kg/sq.m. Cement

9.4 TILE WORKS

9.4.1 SCOPE OF WORK

Furnish equipment and supply labor required to complete installation of all floor and wall tiles. See drawings and details for location and extent of work required.

9.4.2 SAMPLES

Submit samples of floor and wall tiles, and countertop marble slab including all required beads and moldings to the C.O. before purchase for approval as to quality and shade or color.

9.4.3 DELIVERY OF MATERIALS

Deliver all materials in original cartons and containers with labels intact and seals unbroken.

9.4.4 MEASUREMENT AND COORDINATION

The Contractor shall coordinate with other trades involved before starting finishing work. He shall protect works of other trades from damage while finishing works is in
progress. Tile work shall not be started until roughing-ins for plumbing and electrical work have been completed and tested.

9.4.5 PROTECTION OF FINISHED WORK

Cover floors with heavy building paper before foot traffic is permitted over finished tile floors. Lay board walkways on floors to be used as passageways.

9.4.6 PRODUCTS

9.4.6.1 BRICK TILES

Bricks shall be 50mm. x 200mm. x 6.5mm. thk. Natural red colored brick. It shall be installed with the 2” side exposed.

Glazed Wall Tiles - standard glaze bright or matte glazed. Square edge or cushion edge with integral spacers approximately 8 millimeters (5/16 inch.) thick.

Vitrified Unglazed Floor Tile - standard grade unglazed natural clay type dust-pressed or extruded approximately 6 millimeters (¼ inch) thick.

Accessories- soap holders and paper holders shall be recessed type to follow color specified.

Vinyl floor tile wherever indicated in the drawing shall be 2.4mm thick, Kentile, Armstrong for Vinyl Floor Tile. Verify color and design.

Marble tiles for counter top shall be locally produced tiles of the size, grade, shade or color specified herein. It must be free from imperfections that will affect its quality, appearance and strength after polishing.

9.4.6.2 GROUT MATERIALS

Portland Cement Grout:

Scratch Coat : 1 part portland cement to 5 parts damp sand to 1/5 part hydrate lime.

Mortar Bed : 1 part portland cement to 5 parts sand to ½ part hydrated lime.


9.4.7 EXECUTION

9.4.7.1 APPLICATION OF SCRATCH COAT

Thoroughly dampen, but do not saturate surfaces of masonry or concrete walls before applying the scratch coat. Surface areas shall appear slightly damp. Allow no free water on the surface. On masonry, first apply a thin coat with great pressure then bring it out sufficiently to compensation for the major irregularities on the masonry surfaces to a thickness of not less
than 6 millimeters (¼ inch) at any point. On surfaces not sufficiently rough to provide good mechanical key, dash on the first coat with a whisk broom or fiber brush using a strong whipping motion. Do not trowel or otherwise disturb mortar applied by dashing until it has hardened. Evenly rake scratch coats, but not dash coats, to provide good mechanical key for one (1) subsequent coat before the mortar has fully hardened.

9.4.7.2 FLOOR TILE INSTALLATION ON MORTAR BED
Before spreading the setting bed, establish lines of borders and center the fieldwork in both directions to permit the pattern to be laid with a minimum of cut tiles. Clean concrete sub-floor then moisten but not soak. Afterwards, sprinkle dry cement over the surface and spread the mortar on the setting bed. Mix mortar 1 part Portland Cement to 3 parts sand. Tamp to assure good bond over the entire areas and screed to provide a smooth and level bed at proper height and slope. Pitch floor drain as required. After setting bed has been set sufficiently to be worked over, sprinkle dry cement over surface and lay tile. Keep tile joints parallel and straight and lay tile. Keep tile joints parallel and straight over the entire area by using straight edges. Tamp the tile solidly on to the bed, using wood blocks of size to endure solid bedding free from depressions. Lay tiles from center lines outward and make adjustments at walls.

9.4.7.3 WALL TILE INSTALLATION ON MORTAR BED
Before application of mortar bed, dampen the surface of scratch coat evenly to obtain uniform suction. Use temporary or spot grounds to control the thickness of the mortar bed. Fill out the mortar bed even with the ground and rod it to a true plane. Apply the mortar bed over an area no greater than what can be covered with tiles while the coat is still plastic. Allow no single application or mortar to be 19 millimeters (3/4 inch) thick. Completely immerse glazed wall tile in clean water and soak it at least 1/2 hour. After removal, stack tile on edge long enough to drain off excess water. Re-soak and drain individual tiles that dry along edges. Allow a bond coat 0.80 millimeters to 1.6 millimeters coats of paint over the shop prime coat. Touch up all exposed metal with anti-rust.

9.4.7.4 VINYL TILE INSTALLATION
The surface to which flooring is to be applied shall be thoroughly dried, cleaned and leveled. Brush apply primer at a rate of 0.40 liter/m2 to base surfaces and leave to dry for more than 24 hours. Lay tiles in accordance to approved layout drawings with tiles aligned to axis of the room and with proper border widths. All completion, tile surfaces shall be cleaned and thoroughly polished by applying two coats of wax in accordance with directions of the manufacturer of the tile employed.

9.4.7.5 MARBLE INSTALLATION
Bedding
Bedding mortar shall consist of one (1) part portland cement to three (3) parts sand mix thoroughly until required consistently is reached.

Horizontal
Bedding mortar setting bed is spread, thoroughly clean concrete or masonry surface, making sure that it is free from dust or dirt accumulation and thoroughly moisten it with clean, fresh water. Spread mortar until surface of mortar setting bed is absolutely true and even in place, either leveled or uniformly sloped for drainage, ad required. Place at one operation as large an area as can be covered with tiles before mortar reaches its initial setting.

**Vertical**
Where tiles are to be applied to masonry construction thoroughly clean and directly moisten surface before applying scratch coat. Properly moisten scratch coat or plumb coat, when there is one, prior to placing of tiles. Spot scratch coat or plumb coat when there is one, with pieces of tiles mortared in place to accurately indicate plane of tile when wall is finished. Butter each tile with setting mortar applied as butter coat, consisting of one (1) part portland cement, one half (½) to one (1) part lime putty and three (3) parts sand. Cover back of each tile with setting mortar and bring to plumb and true surface flush with spot tiles previously mortared in place into scratch or plumb coat to indicate plane of finished wall.

**Polishing Surface**
After all marble slabs had been laid it shall be wet ground with an electric grinding machine to a smooth, even surface. For vertical surfaces use an electric sanding machine. Use No.24 grit abrasive stone for the initial rubbing follow by No. 80 grit abrasive stone.

**Finishing**
Final rubbing shall be done by the use of abrasive stone no coarser than No.80 grit and shall remove scratches and produce a true surface. The finish surface, after final grinding and rubbing shall not show a wave exceeding one thirty second (1/32) of an inch, when tested with steel straight edge, three (3) feet long. After final grinding, it shall be thoroughly cleaned and left in a finished polished condition using an electric buffing machine.

**9.4.7.6 CLEANING**
The contractor shall clean all paints, spots, daubs, oil and stain in their entirely from all similar items and leave the work in perfect condition upon completion, satisfactory in every respect to the Owner and the Construction Officer.

**9.4.7.7 GUARANTEE**
The Contractor shall guarantee his work in strict accord with the requirements for “Guarantee” as set forth in the General Conditions of the Contract Documents.

**9.5 PAINTING SPECIFICATIONS**

**9.5.1 WORK INCLUDED**
The work includes furnishing of all labor, painting equipment, scaffolding, protective coverings and materials, including those classified more in particulars as paint, hereinafter.
“Paint” as referred in this specifications shall mean and include the surface finish treatment consisting of any, all or some of the following items, primers, fillers, body and final coats, emulsions, vanish, stain or enamels.

9.5.2 WORK NOT INCLUDED

All ornamental metal works such as those of aluminum, stainless steel, brass except where otherwise required.

All shop and prime coats specified as part of the work of other trades.

All held painting of electrical and mechanical equipment, all piping including painting of pipe classification color designation.

All finished surfaces like washout finish, glazed tiles, glass, plastic, etc.

9.5.3 GENERAL REQUIREMENT

The Contractor shall examine the specifications for the various other trades and shall thoroughly familiarize himself with all of the items and surfaces of work to be included.

The Contractor shall protect the work of all other trade against damage or injury by the Contractor’s employees, or by the materials, tools or utensils used in connection with the work. The Contractor shall at his own expense repair all work damaged as a result of the prosecution of this Contract.

9.5.4 MATERIALS

All paint materials to be used shall meet the requirement of the Products Standard Agency (Department of Trade and Industry).

Painting materials shall be by BOYSEN, DUTCH BOY or equivalent.

The manufacturer’s certificate of origin and quality shall be submitted to the Construction Officer for inspection and approval before using any of the paint materials herein specified.

Paint materials such as linseed oil, shellac, turpentine, etc., shall be pure, of highest quality and should bear identifying label on container.

The use of white zinc (lithopone) shall not be allowed.

Finish paint, in general, shall be as prepared by paint manufacturers, and no mixing at site shall be permitted.

9.5.5.1 TINTING COLOR

Tinting colors for oil paints shall be colors in oil, ground in pure linseed oil, and of highest grade obtainable. Acri-color for all water emulsion paints.
Color pigments shall be used to produce the exact shades of paint which shall conform to the approved color scheme of the finished coat. The first coat shall be white.

9.5.5.2 READY MIXED
With the exception of ready mixed materials in original containers, all mixing shall be done at jobsite. No materials are to be reduced or changed except as specified by manufacturer of said material.

9.5.5 DELIVERY AND STORAGE OF MATERIALS
All materials shall be delivered to the jobsite in manufacturer’s factory sealed materials containers with the manufacturer’s brand and name clearly marked and intact. All materials shall be stored only in one place assigned for this purpose, and such storage shall be kept clean and neat and all damage hereto, or its surroundings, shall be made good. All necessary precautions shall be taken in the storage of paints, oils, etc. to prevent fires by complying with all applicable fire prevention and safety ordinances. Paints shall be kept covered at all times.

9.5.6 WORKMANSHIP

9.5.6.1 INSPECTION OF SURFACE TO BE PAINTED
The Contractor shall inspect all surfaces to be painted and all defected shall be remedied before starting work. Commencing of work by the Contractor indicates his acceptance of the surface. No work shall be started unless the Contractor shall have made certain as to the dryness of surfaces. Tests shall be made in the presence of the Construction Officer or his authorized representative, to verify dryness of surface to be painted.

9.5.6.2 SURFACE
All concrete shall be allowed to weather for Preparation at least one (1) month before painting. Clean all surfaces to be painted and varnished of loose dirt and dust before painting is started. Do the customary amount of sanding in the Construction Officer’s opinion to produce a surface suitable to receive paint or varnish.

Inspect all surfaces with regard to their suitability to receive a finish. In the event that the imperfection due to materials of workmanship shall appear on any surface after the application of paint, the cost of any correction shall be borne by the contractor. Damage to any painted or varnished finish due to carelessness or negligence of their crafts shall be corrected. Touch all knots, pitch streaks and sappy spots with approved sealer, putty nail-holes, cracks, after the first coat with non-shrinking putty of a color to match that to the finish.

9.5.6.3 PREPARATION OF METAL SURFACES
Wash all metal surfaces with mineral sprays or detergents to remove any dirt or grease before applying materials. Where rust or scale is present, wire brush or sandpaper clean before painting. Treat rusty portions with Metal Etching Solution # 71 or approved equivalent. Rinse and let dry.

9.5.6.4 PREPARATION OF EXTERIOR AND INTERIOR CONCRETE WALLS
Prepare masonry surface to be painted by removing all dirt, dust, oil and grease stains and efflorescence. Treat with masonry Neutralizer # 44 or approved equivalent. Mix one liter of Masonry Neutralizer with 16 liters of water, then apply liberally by brush and let dry overnight before rinsing with water. Let dry.

9.5.6.5 PREPARATION OF WOODWORK
Woodwork that is to have a finished of treatment, whether executed as field Woodwork work or shop finished, shall be smooth and free from raised grain or other surface imperfections that would affect its appearance, and shall be slightly sanded or steel wooled between coats or finishes. All woodwork shall be sanded lightly with #100 sandpaper between coats. Paint shall be thoroughly dried before sanding.

Before applying succeeding coats, primers and undercoats shall be complete Integral and performing the function for which they are specified. Properly prepare and touch up all scratches, abrasions, or any other disfigurement and remove any foreign matter before proceeding with the following coat.

Do not apply final coat on interior work until other trades are finished with their work in any given area in normal sequence and all materials and debris removed and the premises left in satisfactory broom-clean condition as approved.

9.5.6.6 PREPARATION OF CONCRETE MORTAR SURFACE
Concrete or cement mortar surfaces shall be thoroughly dried before painting and shall be cleaned by brushing of dirt or deposits of foreign materials. Forous concrete surfaces shall be treated with a synthetic emulsion clear sealer, polyvinyl chloride or epoxy sealed as suited for the base material. Cracks and holes shall be filled with putty, polyvinyl chloride or epoxy sealed as suited for the base material. Cracks and holes shall be filled with putty, polyvinyl chloride putty or epoxy putty. Monolithic concrete
or porous concrete surfaces shall be putted with cement filler, synthetic emulsion putty, polyvinyl chloride putty or epoxy putty, and the putty scraped off to a smooth surface. Use putty that is compatible with the surface to be painted and the paint materials. When required, the surfaces shall be sanded with sandpaper # 120-180.

9.5.6.7 PROTECTION OF HARDWARE AND ACCESSORIES
Remove or protect hardware, hardware accessories, plates, lighting fixtures and similar items placed prior to painting, and reposition or remove protection upon completion of each space. Disconnect equipment adjacent to walls, where necessary, move to permit painting of wall surfaces, and following completion of painting, replace and reconnect.

Paint backsides of access panels, removable or hinged covers and the like.

9.5.6.8 MIXING
Painting Contractor shall provide galvanized iron pans of suitable size in which all mixing pails shall be placed. No mixing shall be permitted outside these pans where rust inhibitive painting at the jobsite is not practicable, the surfaces shall be given 2 coats of rust-inhibitive paint at the fabrication shop.

Immediately after delivery of metal materials to the site, all marred or other defective paint coat shall be remedied by touch-up painting.

Field painting shall be applied after installation or fabrication and when welding has been completed. Welded portions shall be cleaned of deposits of foreign materials and given 2 coats of rust-inhibitive paint, provided that portions where painting after installation is not practicable, they shall be painted before installation.

Rust inhibitive paint may be applied by dipping.

Hole Filling
Deep holes, indented portions and large services of wood doors and wood furnishing shall be spot leveled with filling putty. Each application of putty shall be kept thin and additional coats be applied after the previous coat has been dried, resulting in a smooth surface which will not thin down. Sand-papering over putty not dried nor hardened shall not be allowed.

Application of Putty
Putty shall be applied to denied portions, services and irregularities with wood or metal spatulas to a thin coat and
to meet the surface conditions. After putty coat has dried, the surfaces shall be sanded with #120-180 sandpaper to a smooth surface by repetitive sanding.

Sealing
When coloring is required for base wood surfaces which are subject to irregular absorption, base wood surfaces shall be sealed. Sealing shall be done by brush applying sealing compound uniformly or by spraying, sealing compound with a spray gun to a thin coat.

Wood Filling
Wood filling compound shall be applied into holes with a brush of hard bristles or a wood spatula and surplus filling compound shall be scraped off. After leaving for a short period and when the compound is still sticky, the surface shall be rubbed with cotton waste or rough cloth in the direction perpendicular to grain of the wood and finish wiped with soft cloth.

Care shall be taken not to leave surplus filling compound at corners and moldings.

When coating is made for wood filling, the surface shall be finished wiped carefully nor to remove colored coat and not to leave surplus compound.

After wood filling and when required time has elapsed, setting of wood filling shall be performed by brush applying setting compound uniformly or by thin application with a spray gun.

9.5.6.9 APPLICATION
All painting and varnish work shall be done in workmanlike manner by skilled house painter and varnished only.

All materials shall be evenly applied so as to form a film of uniform thickness, free from sags, runs, crawls, or other defects. Paint shall be thoroughly stirred so as to have the pigment evenly in suspension while paint is being applied.

In general and unless otherwise specified, and/or instructed by the Construction Officer due to actual conditions on the job, no less than 24 hours’ time shall elapse between application of succeeding coats. Each coat of paint shall be allowed to dry thoroughly and inspected for approval before the succeeding coat is applied.

No painting shall be done in damp weather.
Except where otherwise noted or specified, all paints shall be applied in three (3) coats.

No work shall be done under conditions unsuitable for the production of good results. No painting or varnishing on woodwork shall be done while plastering is in process of drying.

Surfaces which cannot be satisfactorily finished on the number of coats specified shall have additional coats, or such preparatory coats and subsequent coats as may be required to produce satisfactory finished work at the expense of the Contractor.

All parts of molding and ornaments shall be left clean and true to details.

All finishes shall be uniform as to sheen color and texture except when glazing is required.

**Brush Painting**

Painting brush including roller brush shall be the products manufactured for application of specific type painting materials and shall be of proper shape with bristles suited for use at the painting locations.

Brush painting shall be executed uniformly with special care at joints of colors, caved or convicted corners and with true brush marks, free from unpainted portions, drippings, flows, bubbles or other defective works.

**Spray Painting**

Spray gun application shall be used where indicated in the color scheme schedule.

Spray painting shall be executed with spray painting guns suited for the use. Spray painting shall be performed carefully so that smooth planes with uniform paint coats are attained, free of unpainted portions, paint irregularities, flows, drippings, bubbles or other defective works.

**Rust-inhibitive Painting for Ferrous**

Rust-inhibitive paint shall be applied immediately after removal of dirt, oil and rust.
<table>
<thead>
<tr>
<th>ITEM</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior and Interior Concrete Walls</td>
<td>Apply one (1) coat of Permacoat Flat Latex #701 or approved equivalent as primer/sealer by brush or roller. Let dry for 2 hours before re-coating.</td>
</tr>
<tr>
<td></td>
<td>Putty cracks, crevices and surface defects with Acrytex Cast #1711 or approved equivalent using putty knife.</td>
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<tr>
<td></td>
<td>Let dry, sand and spot prime puttied area with primer.</td>
</tr>
<tr>
<td></td>
<td>Apply two (2) coats Permacoat Latex Topcoat (Permacoat Semi-Gloss # 715 or approved equivalent, Off-White) by brush or roller. Allow 2 hours drying in between coats</td>
</tr>
<tr>
<td>Interior / Exterior Woodwork</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Coat : Flat wall Enamel # 800 or Approved equivalent.</td>
</tr>
<tr>
<td></td>
<td>Putty : Plasolux Glazing Putty # 311 or approved equivalent.</td>
</tr>
<tr>
<td></td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; and 3&lt;sup&gt;rd&lt;/sup&gt; Coats : Semi-Gloss Enamel # 200 or approved equivalent Off-White.</td>
</tr>
<tr>
<td>All Metal Works</td>
<td>Primer : Red Lead Primer # 37 or Approved equivalent.</td>
</tr>
<tr>
<td></td>
<td>Topcoat : Quick Drying Enamel # 600 or approved equivalent Accent Color</td>
</tr>
</tbody>
</table>
9.5.8 SAMPLE

Before ordering material, sample applications of each type of finish and color shall be submitted to the Architect for approval.

9.5.9 CLEANING

The Contractor shall clean all paints, spots, daubs, oil and stain in their entirely from all similar items and leave the work in perfect condition upon completion, satisfactory in every respect to the Owner and the Construction Officer.

9.5.10 GUARANTEE

The Contractor shall guarantee his work in strict accord with the requirements for “Guarantee” as set forth in the General Conditions of the Contract Documents.

9.6 SCHEDULE OF FINISHES

9.6.1 EXTERIOR

9.6.1.1 Roof: GA 24 pre-painted Rib-Type Longspan roofing sheets w/ pre-fabricated/ pre-painted Ridge/Hip roll # Ocean Blue color, DN Hi-Rib 1030 or approved equivalent.

9.6.1.2 Canopy/ Eaves Ceiling: 1.20m. x 2.44m. x 6.5mm thk. plywood ceiling board w/ 25mm. x 25mm. KD Roof Vent Slats w/ Aluminum Wire Mesh screens.

9.6.1.3 Fascia Board: 25mm. x 300mm. KD Wooden Fascia Board, Quick Drying Enamel Paint Finish, #680 C. Brown, Boysen or approved equivalent.

9.6.1.4 Walls: Plain Cement Plaster wall facing, Semi-Gloss Latex Paint Finish, #715, w/ Latex Colors-Beige, Boysen or approved equivalent.

9.6.1.5 Plantbox: 50mm. x 200mm. x 6.5mm. thk. Red Bricks on scratch coated surface.

9.6.1.6 Door: 6.5mm. thk Clear Glass Door on Aluminum Frames w/ 6.5mm. thk. Clear Glass Transom on Aluminum Head and Jambs, Analok finish.

Wooden Flush Door ( 6.5mm. thk. Marine Plywood Facing ) on wooden Head and Jambs. Quick Drying Enamel #680- C. Brown, Boysen or approved equivalent.

9.6.1.7 Windows: 5mm. thk. Clear Glass on Steel Casement and Awning
type Windows.

9.6.1.8 Flooring at Entry Porch: 200mm. x 200mm. x 6.5mm. thk. Vitrified Ceramic Tile, Sandy White.

9.6.2 INTERIOR

9.6.2.1 COMFORT ROOM

9.6.2.1a Floor : 0.60m x 0.60m non-skid unglazed tiles
9.6.2.1b Walls : 0.30m x 0.60m glazed tiles
9.6.2.1c Ceiling: painted ¼thk. plyboard (v-cut joint)
9.6.2.1d Counter Top: granite
9.6.2.1e Partitions: phenolic board
10.1 SCOPE OF WORK

The Contractor shall complete the plumbing and drainage system as shown on the Plans and as specified herein in accordance with the National Plumbing Code of the Philippines and all other applicable local codes.

The Contractor shall execute his branch of work completely, even though some requirements are not contained in the specification or indicated on the Plan.

The Contractor shall furnish and perform all skilled and unskilled labor, as well as all materials, piping, fittings, valves, fixtures and appliances necessary and required in doing and completing the entire plumbing and drainage installation. All excess materials, refuse, etc., are to be removed from the premises by him upon completion of his contract.

10.2 MATERIALS

All material, piping, fittings, valves, fixtures and appliances hereinafter specified and shown on the Plans and those which are essential and have not been specified shall be new and of the highest grade and quality, free from defects, such as breaks, flaws, or other imperfections.

10.2.1 STORM DRAIN

The storm drain is to be constructed of concrete pipe and fittings as indicated in the plans and extended from the connection in the street on the base of all catch basins as shown on the Plan. The joints are to be made of cement mortar consisting of a 50%-50% cement and sand mix.

10.2.1.1 DRAINAGE PIPES

Plain concrete drain pipe and fittings, T & G for 10-20 centimeters (4” to 8”) diameter conforming to ASTM C-14-58; and reinforced concrete drain pipes and fittings for 10 and larger, centrifugal cast of vibrated, T & G conforming to ASTM C-76-59.

10.2.1.2 JOINTING MATERIAL

Use the part cement to two (2) parts sand in proportion, with yarning.

10.2.1.3 DOWNSPOUT, FITTINGS AND CONNECTIONS

PVC pipes as indicated in Plans.

10.2.1.4 ROOF DRAINS
Cast iron body, with removable lock type mushroom dome strainer clamping collar with integral gravel guard, corrosion resistant clamping bolts, bronze expansion joint with graphite asbestos packing. Inside caulk connections, similar or equal to “Josam” Series No. 480, “Zum” Model No. Z-125-6 or equal size as indicated on the drawings.

10.2.1.5 AREA DRAIN - CATCH BASIN
Load-bearing concrete hollow blocks (CHB) Jackbilt or equal, or reinforce concrete with R.C. grating covers as shown on the drawings.

10.2.1.6 MANHOLES
Manholes for the drainage lines outside the building shall be precast R.C. sections with galvanized steel ladder rungs and cast-iron frame and cover.

10.2.1.7 BUILDING STORM DRAIN CONNECT TO MAINS
Use concrete wye branch and cleanout, T & G or by the use of junction boxes.

10.2.2 SOIL-WASTE-VENT LINE
All soil stacks are to be constructed of Waste Vent 4” (100mm), unless otherwise indicated on the Plans. Unplasticized Polyvinyl chloride (PVC) pipe and fittings shall be well supported and extended through the roof with at least 150mm from the roof surface. All waste pipes are to be constructed of PVC manufactured by Neltex, Moldex or approved equals.

The soil, waste, and vent must be provided with cleanouts to make them accessible, and when completed be subjected to a water test in the presence of a local authority and the Construction Officer.

All drains installed in connection with waterproofed roofs shall be equipped with a clamping device.

When drains are installed in connection with membrane waterproofing, a sheet of 454 grams (16 oz.) copper sheet 30 centimeters square (1 square foot) shall be placed between the layers in an approved manner with hot asphalt, bonded to the membrane.

10.2.2.1 SEWER PIPE
Plain concrete sewer pipes and fittings, B & S for 100 to 200 millimeters (4” to 8”) diameter conforming to ASTM C-14-59 and reinforced concrete sewer pipes and fittings for 300mm (12”) and larger, B & S centrifugal cast or vibrated conforming to ASTM C-76-59T.
10.2.2.2 YARNING MATERIALS
Use Oakum for B & S joint with cement mortar filling the remaining annular space.

10.2.2.3 SEWER JUNCTION BOX
Reinforced concrete with precast concrete cover as shown on the drawings.

10.2.2.4 SOIL AND WASTE PIPES
Use uPVC pipes as called for in the Plans.

10.2.2.5 VENT PIPES
Cast iron soil pipes service weight or uPVC as indicated on the Plans.

10.2.2.6 SHOWER AND FLOOR DRAINS
Use high grade strong, tough and even grained metals. No shower or floor drains must be on the way of people who may step on them.

10.2.3 WATER DISTRIBUTION SYSTEM
The building service is to be extended from the city main with Polyvinyl Chloride (PVC) pipe of extra strong quality and laid on a shelf in the trench of the storm drainage. It is to be equipped with a corporation stop, a curb stop with stop box extended flush with the grade and a meter stop.

10.2.3.1 SERVICE PIPE FROM EXISTING WATER MAIN
Either galvanized iron pipe ASTM schedule 40 with tar coating or approved equivalent as indicated on the Plan.

10.2.3.2 PIPES FOR COLD WATER LINE AND TOILET ROUGHING-IN
Galvanized iron (G.I.) pipes Schedule 40 and/or PVC as indicated on the Plans.

10.2.3.3 FIRE LINES OR STAND PIPES
G.I. Pipes Screwed Fittings shall be bended galvanized malleable iron, 1.72 Mpa (250 Psi) working pressure.

10.2.3.4 UNIONS
Unions on ferrous pipes shall be malleable iron and shall conform to the requirements of U.S. Federal Specifications WW-U0-531, Type B zinc-coated.

10.2.4 PLUMBING AND FIXTURE TRIM
Plumbing and fixture trim shall be provided complete with fittings. Exposed traps and supply pipes for all fixtures and equipment shall be connected to the rough piping systems at the wall unless otherwise indicated. Floor plates, wall plates and escutcheons shall be as required by the fixtures specified. Straps shall be provided at each fixtures. Plumbing fixture
compound shall be fixed for fixture connections between earthen ware fixtures and flanges on soil pipe. Closet bolts shall be not less than 8m. The exposed piping, fittings and trimmings shall be chromium-plated or nickel-plated brass with polished bright surfaces.

For all water closets use Saniwares VENTURA Model No. PF 3554 FV, color verify.

For all urinal, use Saniwares WASHBROOK Model No. PF 6500, color verify.

For countertop lavatories use Saniwares MELISSA Model No. PF 1008-UR vitreous china, oval shaped lavatory, color verify.

10.2.5 VALVES

Use Jenkin, Walworth, Kennedy, Crane, Red & White, or approved equivalent.

10.2.6 DRAINS

Use Zurn, Josam, Jay R. Smith, Wade, Metma or approved equivalent.

10.2.7 G.I. PIPES AND FITTINGS

Use Bethlehem Steel, U.S. Steel, Youngstown, Super Industrial Corporation, Goodyear or approved equivalent.

10.2.8 PVC PIPES AND FITTINGS

Use Neltex, Emerald, Atlanta, Moldex or approved equivalent.

10.3 SUBMITTALS

Submit samples of fixtures and pipes to Construction Officers (CO) prior to installation. Also submit working drawings upon the dictated of the CO.

10.4 WORKMANSHIP

All materials installed are to be concealed in building partitions wherever possible.

All piping must be substantially supported to overcome sagging and be so arranged that it may be easily drained.

10.5 INSTALLATION

10.5.1 STORM DRAINAGE SYSTEM

Provide a complete system of storm drainage piping for all roofs, set-back areas, parking areas and canopies. Connect to the house drainage system at the building wall.
Provide all drains required to conduct rain water from the building surfaces to the storm drainage system, including all of the scheduled drains and any special drains indicated on the Architectural and/or Plumbing Drawings.

Take special care in roof drains to assure that they are set at an elevation which will practice the formation of puddles.

Install connectors to roof drains in conjunction with the roofing specified under specification of another trace and at all times as designated by the General Contractor so that the building is adequately protected from damage by storm water during construction. Storm drainage pipes, underdrains, open canals of trenches shall have slopes of not less than 0.005.

Make all branch connections to drainage system “wye” and long “tee-wye” fittings. Do not use short ¼ bends, common offsets and double hubs. Use short “tee-wye” fittings, in vertical piping only, and only where space conditions will not permit the use of long turn fittings. Use only fittings that conform to code requirements.

10.5.2 SOIL WASTE AND VENT SYSTEM

10.5.2.1 HOUSE SEWER SYSTEM
Provide house sewers to conduct the sanitary drainage from the building to the main sewer system, including all piping, trenching, shoring, manholes and/or pumping as required, backfilling, final connection to the main sewers, street openings and repaving as required to make the system complete.

Make the connection to main sewers, open the street and repave in accordance with the requirements of the authorities.

Commence the sewer pipe installation at the connection to the main sewer with all spigot and pointing to the direction of flow. Lay all pipes with ends abutting and in a true line carefully centered from a sewer with uniform inverts.

10.5.2.2 DRAINAGE VENT
Provide ventilating pipes from the various sanitary plumbing fixtures and other equipment which drainage connections are made. Connect ventilating pipes to the discharge of each trap and carry individually to a point above the rim of the fixture before connecting with any other pipe. In general, this will be approximately 1.067 meters (3 feet, 6 inches) above the finish floor. Pitch branch vents back to the fixtures.
Collect individual vent pipes together in branch vent lines and connect to vent stacks, paralleling soil and waste stacks. Whenever possible, vent stack offsets shall be made with 45 degree fittings. Vent stacks shall be connected to adjacent soil stacks at the base of the stacks.

Extend the tops of ventilating stacks independently through the roof or collect together and run through the roof in series of larger pipes, as shown on the drawings. Provide roof couplings at a level 45 millimeters (18 inches) above the finished roof to receive flashings.

10.5.3 COLD WATER SYSTEM

Provide a complete cold water distribution system to supply water to all fixtures, water consuming equipment and valve outlets for the use of other Trades.

The system shall include the required meters and meter accessories.

The water supply system shall be complete with all pipe fittings, valves, meters, trenching, shoring, backfilling, mains, risers, branches, air chambers, controls, hangers, anchors, protective painting, insulation, tests, and the like, all as shown on the drawings, as hereinafter specified and in accordance with the regulations of authorities having jurisdiction.

Provide all metering devices, strainers, test connectors, etc., as required by the authorities and shall obtain approval of the installation without additional cost to the Owner.

Use materials as scheduled.

All equipment used in this system shall have capacities as scheduled.

Adjust all fixtures stops so that flush valves, faucets, etc., function quietly and efficiently before final acceptance by the Owner.

Provide tapping valves, curb valves, boxes and signs where required by the authorities having jurisdiction.

Provide all pipes, fittings, valves, street openings, excavation, backfill, repaving and the like, required to make the system complete.

10.6 TEST

10.6.1 STORM DRAINAGE SYSTEM TEST

The entire drainage and venting system shall have all the necessary openings which can be plugged to permit the entire system to be filled with water to the level of the highest stack vent and/or vent stack above the roof.
The system shall hold this water for a full thirty (30) minutes during which time there shall be no drop more than 100 millimeters (4 inches). If and when the owner decides that an additional test is needed, such as an air or smoke test on the drainage system, the Contractor shall perform such tests without additional cost to the Owner.

10.6.2 WATER SYSTEM TEST

Upon completion of the roughing-in and before setting fixtures, the entire cold water piping system shall be tested at hydrostatic pressure one and a half (1½) times the expected working pressure in the system when in operation, and proved tight at this pressure.

Where a portion of the water-piping system is to be concealed before completion, this portion shall be tested separately in a manner similar to that described for the entire system, and in the presence of the Construction Officer.

10.6.2.1 DISINFECTING

The entire water system shall be thoroughly flushed and disinfected with chlorine before it is placed in operation.

Chlorination materials shall be liquid chlorine or hypochlorite, as specified, shall be introduced into the water lines in a manner approved by the Construction Officer.

The chlorine dosage shall be such as to provide no less than fifty parts per million (50ppm) of the available chlorine.

Following a contact period of not less than sixteen (16) hours the heavily chlorinated water shall be flushed from the system with clean water until the residual chlorine content is not greater than two-tenths (2/10) ppm.

All valves in water lines being sterilized shall be opened and closed several times during the 16-hour chlorinating period.

10.7 GUARANTEE

The Plumbing Contractor does hereby guarantee the entire work, plumbing and drainage system installed against mechanical defect, for a period of one year from the completion of the work. The Contractor agrees to replace of defective materials and make good any damage done to the building in the performance of this Contract cost to the Owner.
ELECTRICAL WORKS

11.1 WORK INCLUDED

All work under these specifications shall consist of furnishing and/or installing all labor, materials, tools and all services necessary unless otherwise indicated to complete and make ready for operation, the electrical power, lighting and other utility system described herein and/or indicated in the Electrical Plans except for Owner-furnished equipment and fixtures for the proposed “KAYO ANG BOSS KO” TOILET FACILITIES IMPROVEMENT PROJECT. In accordance with the electrical plans and these specifications.

10.1.1. Furnish and install low voltage service entrance including accessories.
10.1.2. Furnish and install feeder distribution layout.
10.1.3. Furnish and install lighting and power system.
10.1.4. Furnish and install panel boards, circuit breakers, and disconnect switches.
10.1.5. Furnish and install outlets, switches and plates.
10.1.6. Furnish and install lighting fixtures and lamp (including T-runners & lighting diffusers)

11.2 CODE REGULATIONS

All materials and equipment to be used in the electrical installations and construction shall be in accordance with the latest edition of the Philippine Electrical Code and the pertinent ordinances of the City Government.

All work shall comply with the rules and regulations of the local power company in so far as they are concerned in providing their respective permanent services to the building.

With respect to the local power company, it shall be the electrical contractor’s sole responsibility to verify the point of service entrances and other requirements necessary for service connection of both abilities.

11.3 DRAWINGS AND SPECIFICATIONS

The electrical plans and these specifications are meant to be complementary to each other, and what is called for in one shall be as binding as if called for by both.

Any apparent conflict between the electrical plans and these specifications and any unclear points of controversial matters in either shall be referred to the owner’s assigned representative for final decision.

Upon final completion of the work herein described, the electrical contractor shall furnish the Owner two (2) copies of the “As-built” plans for future reference and maintenance purposes.

The electrical plans indicate the general layout of the complete electrical system, arrangement of feeders, circuit outlets, switches, controls, panel boards, service equipment and other work. Field verification of the scale dimensions on plane must be made, since actual locations, distances and levels will be governed by actual field conditions.
The Electrical Contractor shall check architectural, structural and plumbing plans be necessary to resolve such conflicts, the Electrical Contractor shall notify the Architect and secure approval and agreement on necessary adjustments before installation is started.

11.4 PERMITS AND INSPECTION

The Electrical Contractor shall obtain all necessary permits and certificates of electrical inspection from the proper government authorities concerned, required both for the performance of the work involved and the operation of the system upon completion of the work.

The Electrical Contractor shall pay all necessary electrical fees for the securing of the above-mentioned permits and certificates of electrical inspection.

The Electrical Contractor shall as his own expense, reproduce the electrical plans for work to the necessary scale and size, complete them with the necessary information and requirements as required by the government authorities concerned with approving such plans.

The Electrical Contractor shall coordinate with the local power company regarding the power facilities and secure approval of the power requirements.

11.5 MATERIALS AND WORKMANSHIP

All materials to be installed shall be brand new, unused and shall in every case to be the best where such standard have been established for the particular type of materials used.

Only skilled workmen using proper tools and equipment shall be employed during the entire course of the installation work. All workmanship shall be of the best quality, all work to be done in accordance with the best engineering practice of the trade involved.

11.6 WIRING METHOD

Branch circuit installation for lighting and power layout shall be done polyvinyl chloride pipes (PVC) exposed, inside drop ceiling, wooden and concrete partitions, using NELTEX, ATLANTA EMERALD or approved equal.

All auxiliary layout shall be in uPVC pipes using NELTEX or ATLANTA, EMERALD or approved equal.

Branch circuit layout run underground or embedded in concrete slab shall also be in PVC pipes.

Low voltage service entrance and all feeders shall be in Rigid Steel Conduit (RSC) using PUSAN, KSP of approved equal.

Use flexible metal pipe for connection between junction boxes inside ceiling and lighting fixtures and ceiling fans with standard fittings.
All conduits shall be standard mild steel; hot galvanized or sherardized with an interior coating. Conduits shall be 15mm minimum nominal diameter or otherwise as indicated in the Drawings.

All conduits shall be laid during the construction and shall be concealed in ceiling. All boxes, cabinets and other equipment shall be installed flush-mounted unless specified otherwise. All underground conduits shall be encased in concrete with minimum thickness of 10mm around conduit, and when outside the building, be reinforced sufficiently with steel bars.

All boxes for lighting outlets, convenience outlets, tumbler switches and other devices shall be galvanized and approved products of reputable manufacturers. Outlet boxes shall be 1.5mm thick (Gauge 16). Ceiling and wall outlet boxes shall be 10mm octagonal. Boxes for wall, 50mm x 100m x 55mm deep, locally made. Cut ends of conduits shall be reamed and cleaned to remove burr and sharp edges. Threads cut on conduits shall be the same thread dimensions as factory cut conduit threads. Conduit joints shall be made straight and true. Elbows and offsets and changes in direction of runs and shall be uniform. Bends shall be made without chinking or destroying the cross-sectional contours of the conduits. Conduit terminals shall be provided at outlet boxes and cabinets with locknuts and bushing. Conduits shall be continuous from outlet and from outlet to pull boxes and cabinets in the manner that the conduit system shall be electrically continuous.

Where conduit runs are exposed, they shall be supported at an interval of 1.52m maximum with proper clamps and bolts or expansion shields or other means of support.

Wires shall be manufactured by PHELP DODGE PHILS., AMERICAN WIRE AND CABLE or approved equivalent. Use one brand only.

All splices taps, junction in wires larger than 8.0 sq.mm. shall be done with solderless connectors or suitable sizes properly insulated with rubber tapes and protected by friction tapes, so that the insulation strength shall at least be equal to the insulation of the conductors they join.

Smallest size of wire to be used for lighting and power unless otherwise indicated shall be 3.5sq.mm.

11.7 FEEDERS

Feeders shall be laid out in accordance with the riser diagram shown in the electrical plans.

Unless otherwise specified type THW wires shall be used for feeder lines. The wires and conduits sizes shown in the electrical plans shall be the minimum sizes to be used.

11.8 WALL SWITCHES AND RECEPTACLES

Suitable single pale tumbler switches and three way switches of the flush type shall be NATIONAL brand. Japanese brand or approved equal, to be furnished and installed by the electrical contractor as indicated in the electrical plans.

Wall switches intended to control more than 500 watts load shall be rated Amperes, 300 volts.
Ordinary convenience outlets shall be duplex flush type, 2 wires, 15 Amperes, 250 volts; NATIONAL brand. Japan made or approved equal. Heavy-duty convenience outlets shall be rated 250 volts, 2 wires, 20 Amperes.

All wall plates for switches, receptacles, telephone outlets and blank cover shall be National brand, practidesign or approved equal.

Wall tumbler switches shall be installed 1.40m above finish floor level.

Wall convenience outlets shall be installed 0.30m above finish floor or above the baseboard where there are baseboards.

11.9 MAIN SWITCHES AND PANEL BOARDS

The Electrical Contractor shall furnish and install main distribution panel, lighting panel boards as shown in the drawings.

The cabinets for the above must be of standard sizes and gauge. Locally assembled by FUJI HAYA ELECTRIC CORP., WESTINGHOUSE or approved equal.

Main circuit breakers for power and lighting panel boards shall be 250 volts, AC and shall be quick break, FUJI brand, Japan made WESTINGHOUSE or approved equal.

Safety disconnect switches shall be fusible type as manufactured by EVER, or approved equal.

11.10 LIGHTING FIXTURES

Install all lighting fixtures and lamps as specified and shown on plans. Fluorescent lamps shall be 48 inches, 48 watts, standard cool white or daylight with minimum light output of 3,000 lumens. Use normal power factor ballast, 250V.

All fluorescent fixtures housing shall be of US Gauge 22 minimum.

Submit one (1) sample of each type of fixtures to the Architect for approval prior to manufacturing and installation.

11.11 WATER PUMP

The electrical contractor shall install a complete wiring and conduit for the system including circuit breaker.

The water pump and accessories such as electric motor, magnetic starter, electrode water level controller and others are supplied and installed by others.

11.12 GUARANTEE

The electrical contractor shall guarantee his work for a period of one (1) year form the date of acceptance of the Owner, with which time, he shall repair any defects and failures in any part of the system and replace defective materials, except those to the Owner.
11.13 **“AS BUILT” DRAWINGS**

Upon completion and before first acceptance of the work, the contractor shall prepare at his own expense and submit to the Architect “as built” drawings indicating in all detail the actual as-built conditions of the work required.
Section VII. Drawings
Section VIII. Bill of Quantities
# Section IX. Bidding Forms

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Bid Form

Date: __________________________
IAEB¹ N°: ______________________

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 in item (d) 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 Evaluated Bid or any other Bid that you may receive.

¹ 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: ____________
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 part of this Agreement, to wit:
   
   (a) General and Special Conditions of Contract;
   
   (b) Drawings/Plans;
   
   (c) Specifications;
   
   (d) Invitation to Apply for Eligibility and 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;
   
   (i) Eligibility requirements, documents and/or statements;
   
   (j) Performance Security;
   
   (k) Credit line issued by a licensed bank, if any;
   
   (l) Notice of Award of Contract and the Bidder’s conforme thereto;
   
   (m) Other contract documents that may be required by existing laws and/or the Entity.

3. In consideration of the payments to be made by the Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Entity to execute and complete the Works and remedy any defects therein in conformity with the provisions of this Contract in all respects.

4. The Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.
IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, sealed, delivered by ______________________ the __________________ (for the Entity)

Signed, sealed, delivered by ______________________ the __________________ (for the Contractor).

Binding Signature of PROCURING ENTITY

________________________________________________

Binding Signature of Contractor

________________________________________________

[Addendum showing the corrections, if any, made during the Bid evaluation should be attached with this agreement]
Omnibus Sworn Statement

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

AFFIDAVIT

1. [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 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 of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for [Name of the Project] of the [Name of the Procuring Entity];

      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 and/or to represent the [Name of Bidder] in the bidding as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary’s Certificate issued by the corporation or the members of the joint venture)];

   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: I am 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].

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

________________________________________
Bidder’s Representative/Authorized Signatory

[JURAT]

* This form will not apply for WB funded projects.
Bid Securing Declaration

REPUBLIC OF THE PHILIPPINES )
CITY OF ____________________________ ) S.S.

x-------------------------------------------------------------------x

BID-SECURING DECLARATION
Invitation to Bid/Request for Expression of Interest No.2: [Insert reference number]

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

I/We³, 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 Declaration⁴, if I/we have committed any of the following actions:

   (i) Withdrawn my/our Bid during the period of bid validity required in the Bidding Documents; or

   (ii) Fail or refuse to accept the award and enter into contract or perform any and all acts necessary to the execution of the Contract, in accordance with the Bidding Documents after having been notified of your acceptance of our Bid during the period of bid validity.

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;

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² Select one and delete the other.
³ Select one and delete the other. Adopt same instruction for similar terms throughout the document.
⁴ Issued by the GPPB through GPPB Resolution 03-2012 on 27 January 2012.
(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 and Responsive Bid/Highest Rated and Responsive Bid\(^5\), and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ___ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER’S AUTHORIZED REPRESENTATIVE]  
[Insert signatory’s legal capacity]  
Affiant

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

Witness my hand and seal this ___ day of [month] [year].

NAME OF NOTARY PUBLIC  
Serial No. of Commission ____________  
Notary Public for ______ until ______  
Roll of Attorneys No. _____  
PTR No. __, [date issued], [place issued]  
IBP No. __, [date issued], [place issued]

Doc No. ___  
Page No. ___  
Book No. ___  
Series of ____.

\(^5\) Select one and delete the other.