

Procurement of Plant Design, Supply, and Installation

Single-Stage: Two-Envelope Bidding Procedure

for projects governed by
Procurement Regulations for ADB Borrowers: Goods, Works, Nonconsulting and
Consulting Services (2017, as amended from time to time)

Asian Development Bank

June 2018



PLARIDEL WATER DISTRICT

**BIDDING DOCUMENT FOR
DESIGN AND CONSTRUCTION OF
PLARIDEL WATER DISTRICT
OFFICE BUILDING - REBIDDING**

**Single-Stage: Two-Envelope
Bidding Procedure**

December 2021





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DESIGN AND CONSTRUCTION OF**

**PLARIDEL WATER DISTRICT
OFFICE BUILDING -REBIDDING**

**Single-Stage: Two-Envelope
Bidding Procedure**

**Local Water Utilities Administration
Water District Development Sector Project**

Issued on: December 2021

Invitation for Bids No.: WDDSP-PLAWD-IFB-CW10c

OCB No.: WDDSP-PLAWD-OCB-CW10c

Employer: Plaridel Water District (PLAWD)

Country: Philippines



Preface

This Bidding Document for Procurement of Plant – Design, Supply, and Installation, has been prepared for the Plaridel Water District and is based on the Standard Bidding Document for Procurement of Plant – Design, Supply, and Installation (SBD Plant) issued by the Asian Development Bank dated June 2018.

ADB's SBD Plant has the structure and the provisions of the Master Procurement Document entitled "Procurement of Plant – Design, Supply, and Installation", prepared by multilateral development banks and other public international financial institutions except where ADB-specific considerations have required a change.

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Section 1 - Instructions to Bidders

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Section 1 - Instructions to Bidders

A. General

- 1. Scope of Bid**
- 1.1 In connection with the Invitation for Bids (IFB) indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of plant and services as specified in Section 6 (Employer's Requirements). The name, identification, and number of lot/s (contract/s) of the open competitive bidding (OCB) are provided in the BDS.
- 1.2 Throughout this Bidding Document,
- (a) the term "in writing" means communicated in written form and delivered against receipt;
 - (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and
 - (c) "day" means calendar day.
- 2. Source of Funds**
- 2.1 The Borrower or Recipient (hereinafter called "Borrower") indicated in the BDS has applied for or received financing (hereinafter called "funds") from the Asian Development Bank (hereinafter called "ADB") toward the cost of the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.
- 2.2 Payments by ADB will be made only at the request of the Borrower and upon approval by ADB in accordance with the terms and conditions of the Financing Agreement between the Borrower and ADB (hereinafter called "Financing Agreement"), and will be subject in all respects to the terms and conditions of that Financing Agreement. No party other than the Borrower shall derive any rights from the Financing Agreement or have any claim to the funds.
- 3. Fraud and Corruption**
- 3.1 ADB's Anticorruption Policy (1998, as amended to date) requires Borrowers (including beneficiaries of ADB-financed activity), as well as Bidders, Suppliers, and Contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, ADB
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

- (iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;
 - (v) “abuse” means theft, waste or improper use of assets related to ADB-related activity, either committed intentionally or through reckless disregard;
 - (vi) “conflict of interest” means any situation in which a party has interests that could improperly influence that party’s performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations;
 - (vii) “obstructive practice” means (a) deliberately destroying, falsifying, altering or concealing of evidence material to an ADB investigation, or deliberately making false statements to investigators, with the intent to impede an ADB investigation; (b) threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to a Bank investigation or from pursuing the investigation; or (c) deliberate acts intended to impede the exercise of ADB’s contractual rights of audit or inspection or access to information; and
 - (viii) “integrity violation” is any act, as defined under ADB’s Integrity Principles and Guidelines (2015, as amended from time to time), which violates ADB’s Anticorruption Policy, including (i) to (vii) above and the following: violations of ADB sanctions, retaliation against whistleblowers or witnesses, and other violations of ADB’s Anticorruption Policy, including failure to adhere to the highest ethical standard.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the Contract;
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation;
 - (d) will impose remedial actions on a firm or an individual, at any time, in accordance with ADB’s Anticorruption Policy and Integrity Principles and Guidelines, including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed, -administered, or -supported activities or to benefit from an ADB-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or other integrity violations; and
 - (e) will have the right to require that a provision be included in the Bidding Documents and in contracts financed by ADB, requiring Bidders, suppliers and contractors to permit ADB or its representative to inspect

¹ Whether as a Contractor, Subcontractor, Consultant, Manufacturer or Supplier, or Service Provider; or in any other capacity (different names are used depending on the particular Bidding Document).

their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by ADB.

3.2 All Bidders, consultants, contractors, suppliers, and other third parties engaged or involved in ADB-related activities have a duty to cooperate fully in any screening or investigation when requested by ADB to do so. Such cooperation includes, but is not limited to, the following:

- (a) being available to be interviewed and replying fully and truthfully to all questions asked;
- (b) providing ADB with any items requested that are within the party's control including, but not limited to, documents and other physical objects;
- (c) upon written request by ADB, authorizing other related entities to release directly to ADB such information that is specifically and materially related, directly or indirectly, to the said entities or issues which are the subject of the investigation;
- (d) cooperating with all reasonable requests to search or physically inspect their person and/or work areas, including files, electronic databases, and personal property used on ADB activities, or that utilizes ADB's ICT resources or systems (including mobile phones, personal electronic devices, and electronic storage devices such as external disk drives);
- (e) cooperating in any testing requested by ADB, including but not limited to, fingerprint identification, handwriting analysis, and physical examination and analysis; and
- (f) preserving and protecting confidentiality of all information discussed with, and as required by, ADB.

3.3 All Bidders, consultants, contractors and suppliers shall ensure that, in its contract with its sub-consultants, sub-contractors and other third parties engaged or involved in ADB-related activities, such sub-consultants, sub-contractors and other third parties similarly undertake the foregoing duty to cooperate fully in any screening or investigation when requested by ADB to do so.

3.4 The Employer hereby puts the Bidder on notice that the Bidder or any joint venture partner of the Bidder (if any) may not be able to receive any payments under the Contract if the Bidder or any of its joint venture partners, as appropriate, is, or is owned (in whole or in part) by a person or entity subject to applicable sanctions.

3.5 Furthermore, Bidders shall be aware of the provision stated in GCC 9.6 and GCC 42.2.1 (c).

4. Eligible Bidders

4.1 A Bidder may be a natural person, private entity, or government-owned enterprise subject to ITB 4.5 - or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture. In the case of a Joint Venture,

- (a) all partners shall be jointly and severally liable, and
- (b) the Joint Venture shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the Joint Venture during the bidding process and, in the event the Joint Venture is awarded the Contract, during contract execution.

- 4.2 A Bidder, and all partners constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section 5 (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
- 4.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if any of, including but not limited to, the following apply:
- (a) they have controlling shareholders in common; or
 - (b) they receive or have received any direct or indirect subsidy from any of them; or
 - (c) they have the same legal representative for purposes of this bid; or
 - (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to material information about or improperly influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
 - (e) a Bidder participates in more than one bid in this bidding process, either individually or as a partner in a joint venture, except for alternative offers permitted under ITB 13. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3 (a) - (d) above, this does not limit the participation of a Bidder as a subcontractor in another Bid or of a firm as a subcontractor in more than one Bid; or
 - (f) a Bidder, joint venture partner, associates, parent company or any affiliated entity, participated as a consultant in the preparation of the design or technical specifications of the plant and services that are the subject of the Bid; or
 - (g) a Bidder was affiliated with a firm or entity that has been hired (or is proposed to be hired) by the Employer or Borrower as Project Manager for the Contract; or
 - (h) a Bidder would be providing goods, works, or nonconsulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm.
- 4.4 A firm shall not be eligible to participate in any procurement activities under an ADB-financed, -administered, or -supported project while under temporary suspension or debarment by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such debarment was directly imposed by ADB, or enforced by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a temporary suspended or debarred firm will be rejected.
- 4.5 Government-owned enterprises in the Borrower's country shall be eligible only if they can establish that they (i) are legally and financially autonomous,

(ii) operate under commercial law, and (iii) are not dependent agencies of the Employer.

- 4.6 A Bidder shall not be under suspension from bidding by the Employer as the result of the execution of a Bid–Securing Declaration.
- 4.7 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.
- 4.8 Firms shall be excluded if by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s country prohibits any import of goods or contracting of works or services from that country or any payments to persons or entities in that country.
- 4.9 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.

5. Eligible Plant and Services

- 5.1 The plant and services to be supplied under the Contract shall have their origin in eligible source countries as defined in ITB 4.2 and all expenditures under the Contract will be limited to such plant and services.
- 5.2 For purposes of ITB 5.1 above, “origin” means the place where the plant, or component parts thereof are mined, grown, produced, or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially in its basic characteristics or in purpose or utility from its components.

B. Contents of Bidding Document

6. Sections of Bidding Document

- 6.1 The Bidding Document consists of Parts I, II, and III, which include all the sections indicated below, and should be read in conjunction with any addenda issued in accordance with ITB 8.

PART I Bidding Procedures

- Section 1 - Instructions to Bidders (ITB)
- Section 2 - Bid Data Sheet (BDS)
- Section 3 - Evaluation and Qualification Criteria (EQC)
- Section 4 - Bidding Forms (BDF)
- Section 5 - Eligible Countries (ELC)

PART II Requirements

- Section 6 - Employer’s Requirements (ERQ)

PART III Conditions of Contract and Contract Forms

- Section 7 - General Conditions of Contract (GCC)
- Section 8 - Special Conditions of Contract (SCC)
- Section 9 - Contract Forms (COF)

- 6.2 The IFB issued by the Employer is not part of the Bidding Document.

- 6.3 The Employer is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the source stated by the Employer in the IFB.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the Bid.
- 7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting**
- 7.1 A prospective Bidder requiring any clarification on the Bidding Document shall contact the Employer in writing at the Employer's address indicated in the BDS, or raise inquiries during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond to any request for clarification, provided that such request is received no later than 21 days prior to the deadline for submission of bids. The Employer's response shall be in writing with copies to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 24.2.
- 7.2 The Bidder is advised to visit and examine the site where the plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for the provision of plant and services. The costs of visiting the site shall be at the Bidder's own expense.
- 7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents, will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if provided for in the BDS. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5 The Bidder is requested to submit any questions in writing, to reach the Employer not later than 1 week before the pre-bid meeting.
- 7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting.
- 7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

- 8. Amendment of Bidding Document**
- 8.1 At any time prior to the deadline for submission of Bids, the Employer may amend the Bidding Document by issuing addenda.
- 8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 24.2

C. Preparation of Bids

- 9. Cost of Bidding**
- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid**
- 10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid**
- 11.1 The Bid shall comprise two envelopes submitted simultaneously, one containing the Technical Bid and the other the Price Bid, both envelopes enclosed together in an outer single envelope.
- 11.2 The Technical Bid submitted by the Bidder shall comprise the following:
- (a) Letter of Technical Bid;
 - (b) Bid Security or Bid-Securing Declaration, in accordance with ITB 21;
 - (c) alternative Bids, if permissible, in accordance with ITB 13;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 22.2;
 - (e) documentary evidence in accordance with ITB 14.1, that the plant and services offered by the Bidder in its Bid or in any alternative Bid, if permitted, are eligible;
 - (f) documentary evidence in accordance with ITB 15, the Bidder's eligibility and qualifications to perform the contract if its Bid is accepted;
 - (g) Technical Proposal in accordance with ITB 17.
 - (h) documentary evidence in accordance with ITB 16, that the plant and services offered by the Bidder conform to the Bidding Document;
 - (i) in the case of a bid submitted by a Joint Venture, the Bid shall include a copy of the Joint Venture Agreement entered into by all partners. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all partners and submitted with the Bid, together with a copy of the proposed agreement;

- (j) list of subcontractors, in accordance with ITB 17.2; and
 - (k) any other document required in the BDS.
- 11.3 The Price Bid submitted by the Bidder shall comprise the following:
- (a) Letter of Price Bid;
 - (b) completed schedules as required, including Price Schedules, in accordance with ITB 12 and ITB 18;
 - (c) alternative price Bids, if permissible, in accordance with ITB 13; and
 - (d) any other document required in the BDS.
- 12. Letter of Bid and Schedules**
- 12.1 The Letters of Technical Bid and Price Bid, and the Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms furnished in Section 4 (Bidding Forms). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested and as required in the BDS.
- 13. Alternative Bids**
- 13.1 The BDS indicates whether alternative Bids are allowed. If they are allowed, the BDS will also indicate whether they are permitted in accordance with ITB 13.3, or invited in accordance with ITB 13.2 and/or ITB 13.4.
- 13.2 When alternatives to the Time Schedule are explicitly invited, a statement to that effect will be included in the BDS, and the method of evaluating different time schedules will be described in Section 3 (Evaluation and Qualification Criteria).
- 13.3 Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the Employer's requirements as described in the Bidding Document must also provide: (i) a price at which they are prepared to offer a plant meeting the Employer's requirements; and (ii) all information necessary for a complete evaluation of the alternatives by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed installation methodology and other relevant details. Only the technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.
- 13.4 When Bidders are invited in the BDS to submit alternative technical solutions for specified parts of the facilities, such parts shall be described in Section 6 (Employer's Requirements). Technical alternatives for the specific parts of the facilities that comply with the performance and technical criteria specified for the plant and services shall be considered by the Employer on their own merits, pursuant to ITB 32.
- 14. Documents Establishing the Eligibility of Plant and Services**
- 14.1 To establish the eligibility of the plant and services in accordance with ITB 5, Bidders shall complete the Country of Origin Declaration Form included in Section 4 (Bidding Forms).
- 15. Documents Establishing the Eligibility and**
- 15.1 To establish its eligibility and qualifications to perform the Contract in accordance with Section 3 (Evaluation and Qualification Criteria), the Bidder

- Qualifications of the Bidder** shall provide the information requested in the corresponding information sheets included in Section 4 (Bidding Forms).
- 15.2 Domestic Bidders, individually or in joint ventures, applying for eligibility for domestic preference shall supply all information required to satisfy the criteria for eligibility as described in ITB 38.
- 16. Documents Establishing Conformity of the Plant and Services**
- 16.1 The documentary evidence of the conformity of the plant and services to the Bidding Document may be in the form of literature, drawings and data, and shall furnish:
- (a) a detailed description of the essential technical and performance characteristics of the plant and services, including the functional guarantees of the proposed plant and services, in response to the Specification;
 - (b) a list giving full particulars, including available sources, of all spare parts and special tools necessary for the proper and continuing functioning of the plant for the period named in the BDS, following completion of plant and services in accordance with provisions of the contract; and
 - (c) a commentary on the Employer's Specifications and adequate evidence demonstrating the substantial responsiveness of the plant and services to those specifications. Bidders shall note that standards for workmanship, materials and equipment designated by the Employer in the Bidding Document are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalog numbers in its Bid, provided that it demonstrates to the Employer's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specifications.
- 17. Technical Proposal, Subcontractors**
- 17.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section 4 (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
- 17.2 For major items of plant and services as listed by the Employer in Criterion 2.5 of Section 3 (Evaluation and Qualification Criteria), which the Bidder intends to purchase or subcontract, the Bidder shall give details of the name and nationality of the proposed Subcontractors, including Manufacturers, for each of those items. In addition, the Bidder shall include in its Bid information establishing compliance with the requirements specified by the Employer for these items. Bidders are free to list more than one Subcontractor against each item of the plant and services. Quoted rates and prices will be deemed to apply to whichever Subcontractor is appointed, and no adjustment of the rates and prices will be permitted.
- 17.3 The Bidder shall be responsible for ensuring that any Subcontractor proposed complies with the requirements of ITB 4, and that any plant, or services to be provided by the Subcontractor comply with the requirements of ITB 5 and ITB 15.1
- 18. Bid Prices and Discounts**
- 18.1 Unless otherwise specified in the BDS and/or Section 6 (Employer's Requirements), bidders shall quote for the entire plant and services on a "single responsibility" basis such that the total Bid price covers all the

Contractor's obligations mentioned in or to be reasonably inferred from the Bidding Document in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation, and completion of the plant. This includes all requirements under the Contractor's responsibilities for testing, pre-commissioning and commissioning of the plant and, where so required by the Bidding Document, the acquisition of all permits, approvals, and licenses, etc.; the operation, maintenance, and training services and such other items and services as may be specified in the Bidding Document, all in accordance with the requirements of the General Conditions. Items against which no price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed to be covered by the prices for other items.

18.2 Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the Bidding Document.

18.3 Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section 4 (Bidding Forms). Where no different Price Schedules are included in the Bidding Document, Bidders shall present their prices in the following manner: Separate numbered Schedules included in Section 4 (Bidding Forms) shall be used for each of the following elements. The total amount from each Schedule (Nos. 1 to 4) shall be summarized in a Grand Summary (Schedule No. 5) giving the total bid price(s) to be entered in the Letter of Price Bid. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the Bid.

Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad

Schedule No. 2: Plant and Mandatory Spare Parts Supplied from Within the Employer's Country

Schedule No. 3: Design Services

Schedule No. 4: Installation and Other Services

Schedule No. 5 Grand Summary (Schedule Nos. 1 to 4)

Schedule No. 6: Recommended Spare Parts

Bidders shall note that the plant and mandatory spare parts included in Schedule Nos. 1 and 2 above exclude materials used for civil, building, and other construction works. All such materials shall be included and priced under Schedule No. 4, Installation and Other Services.

18.4 In the Schedules, Bidders shall give the required details and a breakdown of their prices as follows:

(a) Plant to be Supplied from Abroad (Schedule No. 1):

- (i) the price of the plant shall be quoted carriage and insurance paid (CIP)-named place of destination basis specified in the BDS;
- (ii) all customs duties and other taxes paid or payable in the Employer's country on the plant if the contract is awarded to the Bidder; and
- (iii) the total price for the plant.

(b) Plant Supplied from Within the Employer's Country (Schedule No. 2):

- (i) the price of the plant shall be quoted on an EXW Incoterm basis (ex works, ex factory, ex warehouse, ex showroom, as applicable), including all customs duties and sales and other taxes already paid

- or payable on the components and raw material used in the manufacture or assembly of plant quoted ex works or ex factory, or on the previously imported plant of foreign origin quoted ex warehouse, ex showroom;
- (ii) sales tax and other taxes payable in the Employer's country on the plant if the contract is awarded to the Bidder, and
 - (iii) the total price for the plant.
- (c) Design Services. (Schedule No. 3). Rates or prices shall include all taxes, duties, levies, and charges payable in the Employer's country as of 28 days prior to the deadline for submission of Bids.
- (d) Installation and Other Services (Schedule No. 4) shall be quoted separately and shall include rates or prices for local transportation, insurance, and other services incidental to delivery of the plant, all labor, contractor's equipment, temporary works, materials, consumables, and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc., where identified in the Bidding Document, as necessary for the proper execution of the installation and other services, including all taxes, duties, levies, and charges payable in the Employer's country as of 28 days prior to the deadline for submission of bids.
- (e) Recommended spare parts (Schedule No. 6) shall be quoted separately as specified in either subparagraph (a) or (b) above in accordance with the origin of the spare parts.
- 18.5 The current edition of Incoterms, published by the International Chamber of Commerce shall govern.
- 18.6 The prices shall be either fixed or adjustable as specified in the BDS.
- (a) In the case of Fixed Price, prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price quotation will be treated as nonresponsive and rejected.
 - (b) In the case of Adjustable Price, prices quoted by the Bidder shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport, and contractor's equipment in accordance with the procedures specified in the corresponding appendix to the Contract Agreement. A Bid submitted with a fixed price quotation will be treated as non-responsive and be rejected. The Bidder shall furnish the indexes (e.g. for labor and materials), their weightings and source in the Tables of Adjustment Data included in Section 4 (Bidding Forms). The Employer may require the Bidder to justify its proposed indexes and weightings. Any bid that omits indexes and weightings shall be subject to clarification with the Bidder.
- 18.7 If so indicated in BDS 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Bidders wishing to offer any price reduction (discount) for the award of more than one contract shall specify in their Letter of Price Bid the price reductions applicable to each package, or alternatively, to individual contracts within the package, and the manner in which the price reductions will apply.

- 19. Currencies of Bid and Payment**
- 19.1 The currency(ies) of the bid shall be, as specified in the BDS.
- 19.2 Bidders may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements.
- 20. Period of Validity of Bids**
- 20.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Employer. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.
- 20.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with ITB 21, it shall also be extended 28 days beyond the deadline of the extended bid validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its Bid.
- 21. Bid Security/ Bid Securing Declaration**
- 21.1 Unless otherwise specified in the BDS, the Bidder shall furnish as part of its Bid, in original form, either a Bid-Securing Declaration or a bid security as specified in the BDS. In the case of a bid security, the amount and currency shall be as specified in the BDS.
- 21.2 If a Bid-Securing Declaration is required pursuant to ITB 21.1, it shall use the form included in Section 4 (Bidding Forms). The Employer will declare a Bidder ineligible to be awarded a Contract for a specified period of time, as indicated in the BDS, if a Bid-Securing Declaration is executed.
- 21.3 If a bid security is specified pursuant to ITB 21.1, the bid security shall be, at the Bidder's option, in any of the following forms:
- (a) an unconditional bank guarantee,
 - (b) an irrevocable letter of credit,
 - (c) a cashier's or certified check, or
 - (d) swift message in the form of MT760.
- All from a reputable source from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted using either the Bid Security Form included in Section 4 (Bidding Forms) or another form acceptable to the Employer. The form must include the complete name of the Bidder. The bid security shall be valid for 28 days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 20.2.
- 21.4 Unless otherwise specified in the BDS, any Bid not accompanied by a substantially compliant bid security or Bid-Securing Declaration, if one is required in accordance with ITB 21.1, shall be rejected by the Employer as nonresponsive.
- 21.5 If a bid security is specified pursuant to ITB 21.1, the bid security of the unsuccessful Bidder shall be returned promptly upon the successful Bidder's furnishing of the performance security pursuant to ITB 46.

- 21.6 If a bid security is specified pursuant to ITB 21.1, the bid security of successful Bidders shall be returned promptly once the successful Bidder has signed the Contract and furnished the required performance security.
- 21.7 The bid security may be forfeited or the Bid-Securing Declaration executed:
- (a) if, notwithstanding ITB 26.3, a Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid, except as provided in ITB 20.2 or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 45;
 - (ii) furnish a performance security in accordance with ITB 46; or
 - (iii) accept the arithmetical corrections of its Bid in accordance with ITB 36.
- 21.8 If the bid security is required as per ITB 21.1, the bid security of a Joint Venture shall be in the name of the Joint Venture that submits the Bid. If the Joint Venture has not been legally constituted at the time of bidding, the bid security shall be in the name of any or all of the Joint Venture partners. If the Bid-Securing Declaration is required as per ITB 21.1, the Bid-Securing Declaration of a Joint Venture shall be in the name of the Joint Venture that submits the Bid. If the Joint Venture has not been legally constituted at the time of bidding, the Bid-Securing Declaration shall be in the names of all future partners as named in the letter of intent referred to in ITB 4.1.

22. Format and Signing of Bid

- 22.1 The Bidder shall prepare one original set of the Technical Bid and one original set of the Price Bid comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL - TECHNICAL BID" and "ORIGINAL - PRICE BID". Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE". In addition, the Bidder shall submit copies of the Bid, in the number specified in the BDS and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 22.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. If a Bidder submits a deficient authorization, the Bid shall not be rejected in the first instance. The Employer shall request the Bidder to submit an acceptable authorization within the number of days as specified in the BDS. Failure to provide an acceptable authorization within the period stated in the Employer's request shall cause the rejection of the Bid. If either the Letter of Technical Bid or Letter of Price Bid or the Bid-Securing Declaration (if applicable) are not signed, the Bid shall be rejected.
- 22.3 A Bid submitted by a Joint Venture shall be signed so as to be legally binding on all partners.

- 22.4 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

23. Submission, Sealing, and Marking of Bids

- 23.1 Bidders may submit their Bids by mail or by hand. When so specified in the BDS, Bidders shall have the option of submitting their Bids electronically. Procedures for submission, sealing and marking are as follows:

(a) Bidders submitting Bids by mail or by hand shall enclose the original and each copy of the Bid, including alternative Bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL," " " and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.2 to ITB 23.6.

(b) Bidders submitting Bids electronically shall follow the electronic bid submission procedures specified in the BDS.

- 23.2 The inner and outer envelopes shall

(a) bear the name and address of the Bidder,

(b) be addressed to the Employer in accordance with ITB 24.1, and

(c) bear the specific identification of this bidding process indicated in the BDS 1.1.

- 23.3 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bid, in accordance with ITB 27.1.

- 23.4 The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the Employer in accordance with ITB 27.7.

- 23.5 Alternative Bids, if permissible in accordance with ITB 13, shall be prepared, sealed, marked, and delivered in accordance with the provisions of ITB 20 and ITB 21, with the inner envelopes marked in addition "ALTERNATIVE NO...." as appropriate.

- 23.6 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

24. Deadline for Submission of Bids

- 24.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the BDS.

- 24.2 The Employer may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Bids

- 25.1 The Employer shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 24. Any Bid received by the Employer after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

- 26. Withdrawal, Substitution, and Modification of Bids**
- 26.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 22.2, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:
- (a) prepared and submitted in accordance with ITB 22 and ITB 23 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
 - (b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 24.
- 26.2 Bids requested to be withdrawn in accordance with ITB 26.1 shall be returned unopened to the Bidders.
- 26.3 No Bid may be withdrawn, substituted, or modified 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 Letter of Technical Bid or any extension thereof.
- 27. Bid Opening**
- 27.1 The Employer shall open the Technical Bids in public at the address, on the date, and time specified in the BDS in the presence of Bidder's designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 23.1, shall be as specified in the BDS. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening. If the Technical Bid and the Price Bid are submitted together in one envelope, the Employer may reject the entire Bid. Alternatively, the Price Bid may be immediately resealed for later evaluation.
- 27.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- 27.3 Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Price Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened, read out, and recorded. Substitution Price Bid will remain unopened in accordance with ITB 27.1. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- 27.4 Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Bid and/or Price Bid shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original as well as Modification, will remain unopened in accordance with ITB 27.1.

- 27.5 All other envelopes holding the Technical Bids shall be opened one at a time, and the following read out and recorded:
- (a) the name of the Bidder;
 - (b) whether there is a modification or substitution;
 - (c) the presence of a bid security or a Bid-Securing Declaration, if required; and
 - (d) any other details as the Employer may consider appropriate.

Only Technical Bids and alternative Technical Bids read out and recorded at bid opening shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Letter of Technical Bid are to be initialed by at least three representatives of the Employer attending the bid opening. No Bid shall be rejected at the opening of Technical Bids except for late Bids, in accordance with ITB 25.1.

- 27.6 The Employer shall prepare a record of the opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; and alternative Bids; and the presence or absence of a bid security or a Bid-Securing Declaration, if one was required. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders who submitted Bids on time, and posted online when electronic bidding is permitted.

- 27.7 At the end of the evaluation of the Technical Bids, the Employer will invite bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. Bidders shall be given reasonable notice of the opening of Price Bids.

- 27.8 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially nonresponsive to the requirements of the Bidding Document and return their Price Bids unopened.

- 27.9 The Employer shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders' representatives who choose to attend at the address, on the date, and time specified by the Employer. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.

- 27.10 All envelopes containing Price Bids shall be opened one at a time and the following read out and recorded:

- (a) the name of the Bidder;
- (b) whether there is a modification or substitution;
- (c) the Bid Prices, including any discounts and alternative offers; and
- (d) any other details as the Employer may consider appropriate.

Only Price Bids, discounts, and alternative offers read out and recorded during the opening of Price Bids shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Letter of Price Bid and Price

Schedules are to be initialed by at least three representatives of the Employer attending bid the opening. No Bid shall be rejected at the opening of Price Bids.

27.11 The Employer shall prepare a record of the opening of Price Bids that shall include, as a minimum: the name of the Bidder, the Bid Price (per lot if applicable), any discounts, and alternative offers. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders who submitted Bids on time, and posted online when electronic bidding is permitted.

E. Evaluation and Comparison of Bids

- 28. Confidentiality**
- 28.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until publication of Contract award.
- 28.2 Any attempt by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 28.3 Notwithstanding ITB 28.2, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it should do so in writing.
- 29. Clarification of Bids**
- 29.1 To assist in the examination, evaluation, and comparison of the Technical and Price Bids, and qualification of the Bidders, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change in the substance of the Technical Bid or prices in the Price Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids, in accordance with ITB 36.
- 29.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.
- 30. Deviations, Reservations, and Omissions**
- 30.1 During the evaluation of Bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.
- 31. Examination of Technical Bids**
- 31.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.2 have been provided, and to determine the completeness of each document submitted. If any of these documents or information is missing, the Bid may be rejected.

- 31.2 The Employer shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer shall be rejected.
- (a) Letter of Technical Bid;
 - (b) written confirmation of authorization to commit the Bidder;
 - (c) Bid Security or Bid-Securing Declaration, if applicable; and
 - (d) Technical Proposal in accordance with ITB 17.
- 32. Responsiveness of Technical Bid**
- 32.1 The Employer's determination of a bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB11.
- 32.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,
- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the plant and services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Document, the Employer's rights or the Bidder's obligations under the proposed Contract; or
 - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.
- 32.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 17, Technical Proposal, in particular to confirm that all requirements of Section 6 (Employer's Requirements) have been met without any material deviation, reservation, or omission.
- 32.4 If a Bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.
- 33. Nonmaterial Nonconformities**
- 33.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid that do not constitute a material deviation, reservation, or omission.
- 33.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 33.3 Provided that a Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The

adjustment shall be made using the method indicated in Section 3 (Evaluation and Qualification Criteria).

34. Detailed Evaluation of Technical Bids

34.1 The Employer will carry out a detailed technical evaluation of the Bids not previously rejected as being substantially nonresponsive, to determine whether the technical aspects are in compliance with the Bidding Document. The Bid that does not meet minimum acceptable standards of completeness, consistency, and detail, and the specified minimum and/or maximum requirements for specified functional guarantees, will be treated as nonresponsive and hence rejected. To reach such a determination, the Employer will examine and compare the technical aspects of the bids on the basis of the information supplied by the Bidders, taking into account the following:

- (a) overall completeness and compliance with the Employer's Requirements; deviations from the Employer's Requirements; conformity of the plant and services offered with specified performance criteria; suitability of the plant and services offered in relation to the environmental and climatic conditions prevailing at the site; and quality, function and operation of any process control concept included in the Bid. The Bid that does not meet minimum and/or maximum acceptable standards of completeness, consistency, and detail will be rejected for non-responsiveness;
- (b) type, quantity, and long-term availability of mandatory and recommended spare parts and maintenance services; and
- (c) other relevant factors, if any, listed in Section 3 (Evaluation and Qualification Criteria).

34.2 Where alternative technical solutions have been allowed in accordance with ITB 13, and offered by the Bidder, the Employer will make a similar evaluation of the alternatives. Where alternatives have not been allowed but have been offered, they shall be ignored.

35. Eligibility and Qualification of the Bidder

35.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether a Bidder meets the eligibility and qualifying criteria specified in Section 3 (Evaluation and Qualification Criteria).

35.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 15. Unless permitted in the BDS, the determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than Specialist Subcontractors if permitted in the bidding document), or any other firm(s) different from the Bidder.

35.3 An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. The Employer reserves the right to reject the bid of any bidder found to be in circumstances described in GCC 42.2.1(a). A negative determination shall result into the disqualification of the Bid, in which event the Employer shall return the unopened Price Bid to the Bidder.

35.4 The capabilities of the manufacturers and subcontractors proposed in its Bid for the major items of plant and services to be used by a Bidder will also be evaluated for acceptability in accordance with Section 3 (Evaluation and Qualification Criteria). Their participation should be confirmed with a letter of

intent between the parties, as needed. Should a manufacturer or subcontractor be determined to be unacceptable, the Bid will not be rejected, but the Bidder will be required to propose, without changing its bid price, an acceptable substitute manufacturer or subcontractor meeting the minimum technical specifications stated in Section 6 (Employer's Requirements). If a Bidder does not provide an acceptable substitute manufacturer or subcontractor by the date and time set in the Employer's request for substitution of manufacturer or subcontractor, its Bid may be rejected.

- 35.5 Prior to signing the Contract, the corresponding Appendix to the Contract Agreement shall be completed, listing the approved manufacturers or subcontractors for each item concerned.
- 36. Correction of Arithmetical Errors**
- 36.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:
- (a) where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the amounts given under the column for the price breakdown shall prevail and the Total Price will be corrected accordingly;
 - (b) where there are errors between the total of the amounts of Schedule Nos. 1 to 3 and the amount given in Schedule No. 4 (Grand Summary), the total of the amounts of Schedule Nos. 1 to 3 shall prevail and the Schedule No. 4 (Grand Summary) will be corrected accordingly;
 - (c) if there is a discrepancy between the grand total price given in Schedule No. 4 (Grand Summary) and the bid amount in item (c) of the Letter of Price Bid, the grand total price given in Schedule No. 4 (Grand Summary) will prevail and the bid amount in item (c) of the Letter of Price Bid will be corrected; and
 - (d) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetical error, in which case the amount in figures shall prevail subject to (a), (b), and (c) above.
- 36.2 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its bid security may be forfeited or its Bid-Securing Declaration executed.
- 37. Conversion to Single Currency**
- 37.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted into a single currency as specified in the BDS.
- 38. Domestic Preference**
- 38.1 Unless otherwise specified in the BDS, domestic preference shall not apply.
- 39. Evaluation and Comparison of Price Bids**
- 39.1 The Employer shall use the criteria and methodologies listed in this clause. No other evaluation criteria or methodologies shall be permitted.
- 39.2 I. To evaluate a Price Bid, the Employer shall consider the following:
- (a) the bid price, excluding provisional sums and the provision, if any, for contingencies in the Price Schedules;
 - (b) price adjustment for correction of arithmetical errors in accordance with ITB 36.1;

- (c) price adjustment due to discounts offered in accordance with ITB 18.7;
 - (d) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 33.3;
 - (e) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 37;
 - (f) assessment whether the bid is abnormally low in accordance with ITB 40; and
 - (g) the evaluation factors indicated in Section 3 (Evaluation and Qualification Criteria).
- II. The Employer's evaluation of a Bid will exclude and not take into account,
- (a) in the case of Plant and Mandatory Spare Parts (Schedule No. 1) supplied from abroad, all taxes and duties, applicable in the Employer's country and payable on the Plant and Mandatory Spare Parts if the Contract is awarded to the Bidder; and
 - (b) in the case of Plant and Mandatory Spare Parts (Schedule No. 2) supplied from within the Employer's country, sales and other taxes, applicable in the Employer's country and payable on the Plant and Mandatory Spare Parts if the Contract is awarded to the Bidder.
- 39.3 If price adjustment is allowed in accordance with ITB 18.6, the estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
- 39.4 If this Bidding Document allows Bidders to quote separate prices for different lots (contracts), and the award to a single Bidder of multiple lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Price Bid, is specified in Section 3 (Evaluation and Qualification Criteria).
- 39.5 If the Bid, which results in the lowest Evaluated Bid Price, is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Price Schedules, to demonstrate the internal consistency of those prices with the methods and time schedule proposed. After evaluation of the price analyses, taking into consideration the terms of payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.
- 39.6 The Employer shall compare all substantially responsive Bids to determine the lowest evaluated Bid, in accordance with ITB 39.2.
- 40. Abnormally Low Bids**
- 40.1 An abnormally low bid is one where the bid price, in combination with other elements of the bid, appears to be so low that it raises concerns as to the capability of the Bidder to perform the contract for the offered bid price.
- 40.2 When the offered bid price appears to be abnormally low, the Employer shall undertake a three-step review process as follows:

- (a) identify abnormally low costs and unit rates by comparing them with the engineer's estimates, other substantially responsive bids, or recently awarded similar contracts;
 - (b) clarify and analyze the bidder's resource inputs and pricing, including overheads, contingencies and profit margins; and
 - (c) decide whether to accept or reject the bid.
- 40.3 With regard to ITB 40.2 (b) above, the Employer will seek a written explanation from the bidder of the reasons for the offered bid price, including a detailed analysis of costs and unit prices, by reference to the scope, proposed methodology, schedule, and allocation of risks and responsibilities. This may also include information regarding the economy of the manufacturing process; the services to be provided, or the construction method to be used; the technical solutions to be adopted; and any exceptionally favorable conditions available to the bidder for the works, equipment or services proposed.
- 40.4 After examining the explanation given and the detailed price analyses presented by the bidder, the Employer may:
- (a) accept the bid, if the evidence provided satisfactorily accounts for the low bid price and costs, in which case the bid is not considered abnormally low;
 - (b) accept the bid, but require that the amount of the performance security be increased at the expense of the bidder to a level sufficient to protect the Employer against financial loss. The amount of the performance security shall generally be not more than 20% of the contract price; or
 - (c) reject the bid if the evidence provided does not satisfactorily account for the low bid price, and make a similar determination for the next ranked bid, if required.
- 41. Employer's Right to Accept Any Bid, and to Reject Any or All Bids**
- 41.1 The Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
- 42. Notice of Intention for Award of Contract**
- 42.1 If Standstill provisions apply as specified in the BDS, the standstill period shall be defined in the BDS to specify the duration subsequent to notification of intention for award of contract (before making the actual contract award) within which any unsuccessful bidder can challenge the proposed award.
- F. Award of Contract**
- 43. Award Criteria**
- 43.1 The Employer shall award the Contract to the Bidder whose offer has been determined successful in line with ITB 34 to ITB 40 above to be the lowest evaluated Bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily.
- 44. Notification of Award**
- 44.1 Prior to the expiration of the period of bid validity and upon expiry of the standstill period specified in ITB 42.1, or upon satisfactory resolution of a complaint filed within standstill period, if applicable, the Employer shall transmit the Notification of Award (using the form included in Section 9 (Contract Forms)) to the successful Bidder, in writing, that its Bid has been

accepted. At the same time, the Employer shall also notify all other Bidders of the results of the bidding.

- 44.2 Unless standstill period applies, upon notification of award, unsuccessful Bidders may request in writing to the Employer for a debriefing seeking explanations on the grounds on which their Bids were not selected. The Employer shall promptly respond in writing and/or in a debriefing meeting to any unsuccessful Bidder who, after publication of contract award, requests a debriefing.
- 44.3 Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 44.4 Within 2 weeks of the award of contract or expiry of the standstill period, where such period applies, or, if a complaint has been filed within the standstill period, upon receipt of ADB's confirmation of satisfactory resolution of the complaint, the borrower shall publish in an English language newspaper or widely known and freely accessible website the results identifying the bid and lot or package numbers, as applicable and the following information:
- i. name of each Bidder who submitted a bid;
 - ii. bid prices as read out at bid opening;
 - iii. name and evaluated prices of each bid that was evaluated;
 - iv. name of Bidders whose Bids were rejected and the reasons for their rejection; and
 - v. name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded.
- 45. Signing of Contract**
- 45.1 Promptly after notification, the Employer shall send the successful Bidder the Contract Agreement.
- 45.2 Within 28 days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Employer.
- 46. Performance Security**
- 46.1 Within 28 days of the receipt of notification of award from the Employer, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, subject to ITB 39.5 and ITB 40.4, using for that purpose the Performance Security Form included in Section 9 (Contract Forms), or another form acceptable to the Employer. If the institution issuing the performance security is located outside the country of the employer, it shall have a correspondent financial institution located in the country of the employer to make it enforceable.
- 46.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security or execution of the Bid-Securing Declaration. In that event, the Employer may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily.
- 47. Bidding-Related Complaints**
- 47.1 The procedures for dealing with Bidding-related Complaints arising out of this bidding process are specified in the BDS.

Section 2 - Bid Data Sheet

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section 1 - Instructions to Bidders.

A. General

ITB 1.1	<p>The number of the Invitation for Bids (IFB) is : WDDSP-PLAWD-IFB-CW10c</p> <p>The Employer is: Plaridel Water District (PLAWD)</p> <p>The name of the open competitive bidding (OCB) is: Design and Construction of Plaridel Water District Office Building -Rebidding</p> <p>The identification number of the OCB is: WDDSP-PLAWD-OCB- CW10c</p> <p>The number and identification of lots (contracts) comprising this OCB is: One (1)</p>
ITB 2.1	<p>The Borrower is: Local Water Utilities Administration (LWUA), Government of the Philippines</p> <p>The name of the Project is: Water District Development Sector Project</p>

B. Contents of Bidding Documents

ITB 7.1	<p>For <u>clarification purposes</u> only, the Employer's address is:</p> <p>Attention: Mr. Jim Benzon R. Talavera Head, Bids and Awards Committee Secretariat Plaridel Water District</p> <p>Street address: A.C. Reyes St. Poblacion City: Plaridel, Bulacan ZIP code: 3004 Country: Philippines Telephone: (044)-795-0102 Fax: (044)-760-0229 E-mail: plaridel_water_district1987@yahoo.com</p>
ITB 7.4	<p>A Pre-Bid meeting shall take place at the date, time and place as follows :</p> <p>Date: <u>May 31, 2022</u></p> <p>Time: <u>01:00 p.m.</u></p> <p>Plaridel Water District Office</p> <p>Place: A.C. Reyes St. Plaridel, Bulacan</p> <p>Pre-bid Conference may be conducted in person, face-to-face through videoconferencing, webcasting, or similar technology, or a combination thereof.</p> <p>A group site visit shall be organized by the Employer. Bidders will be duly notified of the date and time of the visit.</p>

C. Preparation of Bids

ITB 10.1	The language of the Bid is in English
ITB 11.2 (k)	<p>The Bidder shall submit with its Technical Bid the following additional documents:</p> <ul style="list-style-type: none"> (i) Supplemental information on the contractor’s proposal in accordance with Section 4 (Bidding Forms); (ii) For foreign bidders: An English translation of the documents establishing the eligibility and qualifications of the bidder in accordance with ITB 4.2 and 15.1; and for supporting documents and printed literature that are part of the Bid written in another language, must be accompanied by English translation and a certified by an officially recognized translator or embassy of the country. (iii) Any registration requirements for carrying out business in the Philippines <ul style="list-style-type: none"> <u>For foreign bidders</u> The company registration, Business Permit or License to establish its eligibility as Contractor to undertake a project this nature and size in accordance with ITB <u>For domestic bidders</u> - to be submitted by the lowest evaluated bidder prior to the contract award. - SEC/DTI Registration Certificate - Valid Business/Mayor’s Permit from the bidder’s principal place of business - Valid Tax Clearance per E.O. 398, s. 2005, as finally reviewed by the BIR - Valid PhilGEPS Certificate of Registration and Platinum Membership - Audited Financial Statements showing, among others, the prospective Bidder’s total and current assets and liabilities stamped “received” by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission. - Valid PCAB License Category B – Medium A General Building GB-1 (iv) If the bidder is a joint venture, a draft of the JV agreement or the Memorandum of Undertaking between the JV partners. (v) Valid licenses issued by the Professional Regulatory Commission for design professionals
ITB 11.3 (d)	<p>The Bidder shall submit with its Price Bid the following additional documents:</p> <ul style="list-style-type: none"> (i) Lump sum bid prices, which shall include the detailed engineering cost, in the prescribed form (ii) Detailed estimates including a summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals used in coming with the bid; and (iii) Cash flow by the quarter and payments schedule
ITB 12.1	The units and rates in figures entered into the Price Schedules should be typewritten or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered nonresponsive.

ITB 13.1	Alternative bid is not permitted. (Each bidder must come up with one proposal which is its best alternative with corresponding technical proposal)
ITB 13.2	Shorter time schedule will be permitted provided that all the technical requirements are complied with. There will be no credits given in the evaluation of payments for shorter duration specified (if any) by the bidder.
ITB 13.4	Alternative technical solutions is not allowed. The bidder should provide one best solution which it thinks is most feasible and advantageous.
ITB 16.1 (b)	The period following completion of the design and construction of the Works in accordance with provisions of the contract shall not be more than ten months.
ITB 17.1	Technical Proposal shall also include a Health and Safety COVID-19 Plan, in accordance with the Construction Guidelines for Project Implementation During the Period of Public Health Emergency (attached as Annex 4 of this Bidding Document) issued by the Philippine Domestic Construction Board, an implementing board of the Construction Industry Authority of the Philippines (CIAP). Absence of or incomplete submission may result in rejection of bid.
ITB 18.1	Bidders shall submit quotations in the manner and detail called for in the Price Schedules included in Section 4 (Bidding Forms). Schedule 1 – Plant and Mandatory Spare Parts Schedule 2 – Design Services Schedule 3 – Installation and Other Services Schedule 4 – Grand Summary (Schedules 1-4) Schedule 5 – Recommended Spare Parts
ITB 18.4	Not applicable.
ITB 18.6	The prices quoted by the Bidder shall be non-adjustable.
ITB 19.1	The currencies of the Bid shall be as follows: The prices shall be quoted in the currency of the Employer's home country, Philippine Peso
ITB 20.1	The bid validity period shall be one hundred twenty (120) days from the date of opening of the bids. October 19, 2022
ITB 21.1	The Bidder shall furnish a Bid Securing Declaration ,
ITB 21.2	Bidder ineligible to be awarded a Contract for a period of two years, if a Bid-Securing Declaration is executed.
ITB 21.4	Subject to the succeeding sentences, any bid not accompanied by an irrevocable and callable bid security shall be rejected by the Employer as nonresponsive. If a Bidder submits a bid security that (i) deviates in form, amount, and/or period of validity, or (ii) does not provide sufficient identification of the Bidder (including, without limitation, failure to indicate the name of the Joint Venture or, where the

	Joint Venture has not yet been constituted, the names of all future Joint Venture Partners), the Employer shall request the Bidder to submit a compliant bid security within seven (7) days of receiving such a request. Failure to provide a compliant bid security within the prescribed period of receiving such a request shall cause the rejection of the Bid.
ITB 22.1	In addition to the original Bid, the number of copies is: Two (2)
ITB 22.2	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of:</p> <ol style="list-style-type: none"> (1) In case of a corporation, the proposal shall be accompanied by a Board Resolution and Certification by the Corporate Secretary under oath indicating that the person signing the proposal has the authority to sign the proposal or to delegate the signing of the proposal, and that the proposal is binding upon the bidder. (2) Individually-owned firms or Partnership shall submit a Power of Attorney duly notarized by a Notary Public indicating that the person signing the bid/proposal has the authority to sign the proposal from the proprietor/partnership. This shall be dispensed with if bid/proposal is signed by the proprietor or all the partners of the partnership (3) Bids submitted by an existing or intended JV shall include an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution. <p>The Bidder shall submit an acceptable authorization within seven (7) days from receipt of the notice to provide an acceptable authorization.</p>

D. Submission and Opening of Bids

ITB 23.1	Bidders do not have the option of submitting their bids electronically.
ITB 23.1 (b)	Not applicable
ITB 24.1	<p>For bid submission purposes only, the Employer's address is</p> <p>Attention: Ms. Marifaye Ersando Chairperson, Bids and Awards Committee, Plaridel Water District</p> <p>Street address: A.C. Reyes St. Poblacion</p> <p>Floor/Room number: _____</p> <p>City: Plaridel, Bulacan</p> <p>ZIP code: 3004</p> <p>Country: Philippines</p> <p>The deadline for bid submission is</p> <p>Date: June 21, 2022</p> <p>Time: 01:00 p.m.</p>

ITB 27.1	<p>The bid opening of Technical Bids shall take place at</p> <p>Street address: Plaridel Water District A.C. Reyes St. Poblacion</p> <p>Floor/Room number: _____</p> <p>City: Plaridel, Bulacan</p> <p>Country: Philippines</p> <p>Date: June 21, 2022</p> <p>Time: 01:01 p.m.</p>
ITB 27.1	Electronic bid opening procedure shall be as follows: Not applicable
ITB 27.5	The Letter of Technical Bid shall be initialed by <u>at least two (2) representatives</u> of the Employer's Bids and Awards Committee attending the Technical Bid opening.
ITB 27.10	The Letter of Price Bid and Price Schedules shall be initialed by <u>at least two (2) representatives</u> of the Employer's Bids and Awards Committee attending the Price Bid opening.

E. Evaluation and Comparison of Bids

ITB 35.2	The qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors shall not be permitted.										
ITB 37.1	Not applicable: All quotes shall be in Philippine Pesos (PhP)										
ITB 38.1	Domestic preference: Not applicable.										
ITB 42.1	Standstill provisions shall not apply.										
ITB 47.1	<p>The procedures for Bidding-related Complaints are referenced in the "Procurement Regulations for ADB Borrowers (Appendix 7)." The Bidder should submit its complaint following these procedures, in writing, to:</p> <table border="1" data-bbox="435 1262 1399 1459"> <tr> <td data-bbox="440 1268 727 1304">For the attention:</td> <td data-bbox="727 1268 1399 1304">Ms. Marifaye Ersando</td> </tr> <tr> <td data-bbox="440 1304 727 1339">Title/position:</td> <td data-bbox="727 1304 1399 1339">Chairperson, Bids and Awards Committee</td> </tr> <tr> <td data-bbox="440 1339 727 1375">Employer:</td> <td data-bbox="727 1339 1399 1375">Plaridel Water District</td> </tr> <tr> <td data-bbox="440 1375 727 1411">Email address:</td> <td data-bbox="727 1375 1399 1411">plaridel_water_district1987@yahoo.com</td> </tr> <tr> <td data-bbox="440 1411 727 1446">Fax number:</td> <td data-bbox="727 1411 1399 1446">(044)760-0229</td> </tr> </table>	For the attention:	Ms. Marifaye Ersando	Title/position:	Chairperson, Bids and Awards Committee	Employer:	Plaridel Water District	Email address:	plaridel_water_district1987@yahoo.com	Fax number:	(044)760-0229
For the attention:	Ms. Marifaye Ersando										
Title/position:	Chairperson, Bids and Awards Committee										
Employer:	Plaridel Water District										
Email address:	plaridel_water_district1987@yahoo.com										
Fax number:	(044)760-0229										

Section 3 - Evaluation and Qualification Criteria

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1. Evaluation

The Technical Proposals are evaluated as follows:

First Step:

The qualification of the bidder: (i) Eligibility Criteria; (ii) Historical Contract Non-Performance; (iii) Financial Situation; (iv) Bidder's Experience; (v) Experience of Subcontractors (if any) will be evaluated on a pass/ fail basis and bidders qualified in this step will be taken up for evaluation of the Technical Proposal in the second step.

Second Step:

Technical proposals of all bidders qualified in the first step will be evaluated on a point system given below:

The proposal with score 70% and above in the second step will be considered as technically responsive and considered for opening of financial proposals.

	Parameter of Evaluation	Weight
1	Site Organization	10
2	Overall organization and presentation of Method Statement	25
	Detailed Engineering Design (7%)	
	Construction (18%)	
3	Mobilization Schedule	5
4	Construction Schedule including commissioning and trial run	10
5	Planning for social safeguards, requirements of Gender Action Plan, public consultation	10
6	Planning for environmental safeguards	10
7	Proposed Key Personnel	10
8	Proposed Equipment	10
9	Proposed arrangements of subcontractors	5
10	Material Sourcing	5
	TOTAL	100

1.1 Technical Evaluation

In addition to the criteria listed in ITB 34.1 (a)–(b), other relevant factors are as follows:

The compliance to employer's requirements as mentioned in Section 6 - Employer's requirement is evaluated.

Also, evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key Contractor's Equipment and Contractor's Personnel for the Contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employer's Requirements).

Noncompliance with equipment and personnel requirements described in Section 6 (Employer's Requirements) shall not normally be a ground for bid rejection and such

noncompliance will be subject to clarification during bid evaluation and rectification prior to contract award.

The Employer will take into account the quality of the Health and Safety COVID -19 Plan ('the Plan') attached to the Technical Proposal in its evaluation of the Adequacy of the Technical Proposal.

The bidder should demonstrate in the Plan the health and safety measures they will put in place on site in relation to COVID-19 prevention and controls, including but not limited to, PPE requirements, site set up, training, induction and mobilization of new personnel, equipment and plants cleaning and other hazard management measures while undertaking site work activities, site visitors health and safety protocols, as well as the approach to the monitoring and reporting of the Plan. The Plan should be fit for purpose for the particular construction works of this contract and be aligned with any relevant government regulations and guidelines on COVID-19 prevention and controls and based on the Construction Guidelines for Project Implementation during the period of Public Health Emergency issued by the Philippine Domestic Construction Board (PDCB), an implementing board of the Construction Industry Authority of the Philippines (CIAP). Also refer to ADB SDCC's advisory in relation to COVID-19 health and safety and international good practices.

Note: Evaluation guidance – the Employer should evaluate the adequacy of technical responsiveness of the COVID-19 Health and Safety Management Plan in accordance with the country's guidelines specific requirement and local regulations on COVID-19 H&S prevention and controls, and/or international good practices that are listed as the basis of evaluation in the bidding document. EA should seek support from the Engineer/PMC/H&S consultant in reviewing the plan if they do not have in-house expertise.

1.2 Alternative Technical Solutions

Technical alternatives are not permitted.

1.3 Economic Evaluation

In addition to the criteria listed in ITB 39.2 I (a)–(f), other relevant factors are as follows:

Adjustments in price that result from the procedures below shall be added, for purposes of comparative evaluation only, to arrive at an "Evaluated Bid Price." Bid prices quoted by Bidders shall remain unaltered.

1.3.1 Quantifiable Deviations and Omissions

The evaluation shall be based on the evaluated cost of fulfilling the contract in compliance with all contractual obligations under this Bidding Document.

Pursuant to ITB 32.3 the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids.

Omissions are considered as follows:

If any item is not quoted by the bidder, to this effect, the Bid Price will be adjusted, for comparison purposes only, to reflect the price of a missing item or component. For this purpose, the highest price quoted amongst the substantially responsive bidders of that particular missing item would be added to the Bid Price to arrive at the Evaluated Bid Price of the respective bidder. (In case all the bidders have not quoted the particular item, then the Engineer's Estimate for the particular item would be taken for this purpose) However, it should be noted that this adjustment would be for comparison only and the 'Award Price' to the successful bidder would be based on the Lowest Evaluated Bid Price without the price adjusted for the purpose on omissions. No separate payment would be made to the missing or non-confirming item and it is deemed that contractor would execute the missing item at the 'Award Price' (calculated without adjustments of missing item or component) as mentioned above.

Other Adjustment for non-conformance would be based on the nonconformity observed and suitable adjustments would be made by the employer.

1.3.2 Time Schedule

Time to complete the design and construction from the effective date specified in Article 3 of the Contract Agreement for determining the time for completion of pre-commissioning activities is: Ten **(10) months**. One (1) month = thirty (30) days. No credit will be given for earlier completion.

1.3.3 Operating and Maintenance (O&M) Costs

The O&M cost factors for calculating the life cycle cost are as follows:

- (a) Number of years for life cycle: fifteen (15) years
- (b) Operating costs: fifteen (15) years
- (c) Maintenance costs: fifteen (15) years, including the cost of spare parts for the initial period of operation
- (d) A rate of nine percent (9%) is to be used to discount to present value all annual future costs calculated under (b) and (c) for the period specified in (a).

1.3.4 Functional Guarantees of the Facilities (not applicable)

1.3.5 Work, Services, Facilities, etc., to Be Provided by the Employer

Where bids include the undertaking of work or the provision of services or facilities by the Employer in excess of the provisions allowed for in the Bidding Document, the Employer shall assess the costs of such additional work, services and/or facilities during the duration of the contract. Such costs shall be added to the bid price for evaluation.

1.3.6 Specific Additional Criteria

The following additional criteria will be used in the evaluation:

Not applicable.

1.3.7 Domestic Preference

Domestic preference does not apply to this contract.

1.4 Multiple Contracts

Multiple contracts shall not apply.

2. Qualification

2.1 Eligibility

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	

2.1.1 Nationality

Nationality in accordance with ITB Subclause 4.2.	must meet requirement	must meet requirement	must meet requirement	not applicable	Forms ELI - 1; ELI - 2 with attachments
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2.1.2 Conflict of Interest

No conflicts of interest in accordance with ITB Subclause 4.3.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
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2.1.3 ADB Eligibility

Not having been declared ineligible by ADB, as described in ITB Subclause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
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2.1.4 Government-Owned Enterprise

Bidder required to meet conditions of ITB Subclause 4.5.	must meet requirement	must meet requirement	must meet requirement	not applicable	Forms ELI - 1; ELI - 2 with attachments
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2.1.5 United Nations Eligibility

Not having been excluded by an act of compliance with a United Nations Security Council resolution in accordance with ITB Subclause 4.8.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
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2.2 Historical Contract Non-Performance

2.2.1 History of Non-Performing Contracts

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Non-performance of a contract did not occur as a result of contractor default since 1st January 2016	must meet requirement	must meet requirements	must meet requirement	not applicable	Form CON-1

Note for bidders in reporting:

1. Nonperformance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.
2. This requirement also applies to contracts executed by the Bidder as Joint Venture member.

2.2.2 Suspension Based on Execution of Bid-Securing Declaration

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.6.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid

2.2.3 Pending Litigation and Arbitration

Pending litigation and arbitration criterion shall not apply.

2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last three (3) years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 1 with attachments

2.3.2 Average Annual Turnover

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Minimum average annual turnover of PhP125 Million calculated as total certified payments received for contracts in progress or completed, within the last three (3) years.	must meet requirement	must meet requirement	must meet twenty-five percent (25%) of the requirement	must meet forty percent (40%) of the requirement	Form FIN - 2

2.3.3 Financial Resources

Criteria Requirement	Compliance Requirements				Documents Submission Requirements
	Single Entity	Joint Venture			
		All Partners Combined	Each Partner	One Partner	
For Single Entities: The Bidder must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of PhP16Million	must meet requirement	not applicable	not applicable	not applicable	Form FIN – 3 and Form FIN - 4
For Joint Ventures: (1) One partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of Forty percent (40%) from the total requirement for the Subject Contract. AND	not applicable	not applicable	not applicable	must meet requirement	Form FIN – 3 and Form FIN - 4
(2) Each partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of Twenty-five percent (25%) from the total requirement for the Subject Contract. AND	not applicable	not applicable	must meet requirement	not applicable	Form FIN – 3 and Form FIN - 4
(3) The joint venture must demonstrate that the combined financial resources of all partners defined in FIN - 3, less all the partners' total financial obligations for the current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of PhP16 Million	not applicable	must meet requirement	not applicable	not applicable	Form FIN – 3 and Form FIN - 4

2.4 Bidder’s Experience

2.4.1 Contracts of Similar Size and Nature

Participation as a contractor, JV partner, or subcontractor, in at least two contracts that have been successfully or substantially completed within the last ten (10) years (or Projects completed after 1 January 2011 will only be considered) and that are similar to the proposed contract, where the value of the Bidder’s participation under each contract exceeds PHP37 Million. The similarity of the Bidder’s participation shall be based on components given in the Employer’s Requirements.	must meet requirement	must meet requirement as follows: Either one partner must meet requirement Or any two partners must each demonstrate one (1) successfully or substantially completed contract of similar size and nature	not applicable	not applicable	Form EXP - 1
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2.4.2 Experience in Key Activities

2.4.2(a) Must be complied with by the Bidder. In case of a Joint Venture Bidder, at least one of the partners must meet the requirement in the key activity.

Table A

Criteria	Compliance Requirements		Documents
	Requirement	Single Entity	Joint Venture
For the above or other contracts executed during the period stipulated in 2.4.1, a minimum experience in the following key activities:	must meet requirement	must meet requirement	Form EXP – 2
1. Detailed Engineering Design of 3-storey office building complete with architectural, structural, electrical, mechanical, sanitary and plumbing fixtures, carpentry, finish, etc.			
2. Construction of 3-storey office building (with minimum floor area of 400 sq.m. in one floor), complete with architectural, structural,			

Criteria	Compliance Requirements		Documents
Requirement	Single Entity	Joint Venture	Submission Requirements
electrical, mechanical, sanitary and plumbing fixtures, carpentry, finish, etc. in the last ten (10) years.			

2.4.2(b) The Employer accepts any of the following activities to be subcontracted. They may be complied with by the Bidder or by its proposed specialist subcontractor.

Table B

Criteria	Compliance Requirements		Documents
Requirement	Single Entity or its Specialist Subcontractors	Joint Venture or its Specialist Subcontractors	Submission Requirements
For the above or other contracts executed during the period stipulated in 2.4.1, a minimum experience in the following key activities:	must meet requirement	must meet requirement	Form EXP – 2
3. Detailed Engineering Design of 3-storey office building including electrical, plumbing fixtures, finish, etc.			
4. Preparation of environmental safeguard document (Finalize IEE/EIA)			

2.5 Subcontractors

Subcontractors or Manufacturers for the following major items of plant and services must meet the following minimum qualification criteria, herein listed for a subcontractor for that item. Failure to comply with this requirement will result in rejection of the subcontractor but not the Bidder.

Item No.	Description of Item	Minimum Criteria to be met	Documents Submission Requirements
1	Detailed engineering design	Detailed Engineering Design of 3-storey office building including electrical, plumbing fixtures, finish, etc. successfully completed during the last ten (10) years	Form EXP-3
2	Environmental safeguards document	Preparation of at least two IEEs or EIA for water supply projects similar in nature and size	
3			
4			
5			

In the case of a Bidder who offers to supply and install major items of plant under the contract, which the Bidder did not manufacture or otherwise produce, the Bidder shall provide the Manufacturer's authorization, using the form provided in Section 4 (Bidding Forms), showing that the Bidder has been duly authorized by the Manufacturer or producer of the related plant and equipment or component to supply and install that item in the Employer's country. Failure to submit the Manufacturer's authorization at the first instance is considered a minor, nonmaterial omission and shall be subject to clarification. However, failure of the Bidder to submit the omitted authorization shall lead to rejection of the Subcontractor or Manufacturer of the item under evaluation in accordance with ITB 35.4.

Section 4 - Bidding Forms

This section contains the forms to be completed by the Bidder and submitted as part of its Bid.

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Letter of Technical Bid

-- Note --

The bidder must accomplish the Letter of Technical Bid on its letterhead clearly showing the bidder's complete name and address.

Date:

..... OCB No.: WDDSP-PLAWD-OCB-CW10c

..... Invitation for Bid No.: WDDSP-PLAWD-IFB- CW10c

To: [. . . insert complete name of the employer . . .]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to design, manufacture, test, deliver, install, pre-commission, and commission in conformity with the Bidding Document the following Plant and Services: [. . . insert narrative . . .]
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of [. . . insert bid validity period as specified in ITB 20.1 of the BDS . . .] 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) We, including any Subcontractors or Manufacturers for any part of the Contract, have or will have nationalities from eligible countries, in accordance with ITB 4.2.
- (e) We, including any Subcontractors or Suppliers for any part of the Contract, do not have any conflict of interest in accordance with ITB 4.3.
- (f) We are not participating, as a Bidder, either individually or as partner in a joint venture, in more than one bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers submitted in accordance with ITB 13.
- (g) Our firm, joint venture partners, associates, parent company, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, are not subject to, or not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Asian Development Bank or a debarment imposed by the Asian Development Bank in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the Asian Development Bank and other development banks.²

² These institutions include African Development Bank, European Bank for Reconstruction and Development (EBRD), Inter-American Development Bank (IADB), and the World Bank Group. According to paragraph 9 of the Agreement, other international financial institutions may join upon the consent of all Participating Institutions and signature of a Letter of Adherence by the international financial institution substantially in the form provided (Annex B to the Agreement). Upon adherence, such international financial institution shall become a Participating Institution for purposes of the Agreement. Bidders are advised to check www.adb.org/integrity for updates.

- (h) Our firm, joint venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the Contract, are not, or have never been, temporarily suspended, debarred, declared ineligible, or blacklisted by the employer's country, any international organization, and other donor agency.

If so debarred, declared ineligible, temporarily suspended, or blacklisted, please state details (as applicable to each joint venture partner/associate/parent company/affiliate/subsidiaries/subcontractors/suppliers):

- (i) Name of Institution: _____
 (ii) Period of debarment, ineligibility, or blacklisting (start and end date): _____
 (iii) Reason for the debarment, ineligibility, or blacklisting: _____

- (i) Our firm's, joint venture partners', associates', parent company's affiliates' or subsidiaries', including any Subcontractors or Suppliers key officers and directors have not been [charged or convicted] of any criminal offense (including felonies and misdemeanors) or infractions/violations of ordinance which carry the penalty of imprisonment.

If so charged or convicted, please state details:

- a. Nature of the offense/violation: _____
 b. Court/Area of jurisdiction: _____
 c. Resolution (i.e. dismissed; settled; convicted/duration of penalty): _____
 d. Other relevant details:

- (j) We understand that it is our obligation to notify ADB should our firm, joint venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers, be temporarily suspended, debarred or become ineligible to work with ADB or any other MDBs, the employer's country, international organizations, and other donor agencies, or any of our key officers and directors be charged or convicted of any criminal offense or infractions/violations of ordinance which carry the penalty of imprisonment.

- (k) Our firm, joint venture partners, associates, parent company, affiliates or subsidiaries, including any subcontractors or suppliers, are not from a country which is prohibited to export goods to or receive any payments from the employer's country by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations.

- (l) [We are not a government-owned enterprise] / [We are a government-owned enterprise but meet the requirements of ITB 4.5].³

- (m) We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid-Securing Declaration in accordance with ITB 4.6.

- (n) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

³ Use one of the two options as appropriate.

- (o) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the requirements set forth in Section 6 (Employer’s Requirements) and our technical proposal, or as otherwise agreed with the Employer.

- (p) We understand that any misrepresentation that knowingly or recklessly misleads, or attempts to mislead may lead to the automatic rejection of the Bid or cancellation of the contract, if awarded, and may result in remedial actions, in accordance with ADB’s Anticorruption Policy (1998, as amended to date) and Integrity Principles and Guidelines (2015, as amended from time to time).

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

.....

Country of Origin Declaration Form

Name of Bidder _____ IFB Number WDDSP-PLAWD-IFB-CW10c Page ___ of ___

Item	Description	Country of Origin

Letter of Price Bid

-- Note --

The bidder must accomplish the Letter of Price Bid on its letterhead clearly showing the bidder's complete name and address.

Date:

..... OCB No.: WDDSP-PLAWD-OCB-CW10c

..... Invitation for Bid No.: WDDSP-PLAWD-IFB- CW10c

To: [. . . insert complete name of the employer . . .]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to design, manufacture, test, deliver, install, pre-commission, and commission in conformity with the Bidding Document the following Plant and Services: [. . . insert narrative . . .]
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of

[amount of local currency in words], [amount in figures]

The total bid price from the Grand Summary (Schedule No. 4) should be entered by the Bidder inside this box. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the bid.

- (d) The discounts offered and the methodology for their application are as follows: [. . . insert discounts and methodology for their application if any . . .]
- (e) Our Bid shall be valid for a period of [. . . insert bid validity period as specified in ITB 20.1 of the BDS . . .] days from the date fixed for the 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.
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document.

- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: ⁴

Name of Recipient	Address	Reason	Amount
.....
.....

- (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.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

.....

⁴ If none has been paid or is to be paid, indicate "None."

Price Schedules

PREAMBLE

General

1. The Price Schedules are divided into separate Schedules as follows:
 - Schedule No. 1: Plant and Mandatory Spare Parts Supplied
 - Schedule No. 2: Design Services
 - Schedule No. 3: Civil Works and Other Services
 - Schedule No. 4: Grand Summary
 - Schedule No. 5: Recommended Spare Parts
2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
3. If Bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

Pricing

4. The units and rates in figures entered into the Price Schedules should be typewritten or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered nonresponsive. Any alterations necessary due to errors, etc., shall be initialed by the Bidder.
As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
5. Bid prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Document.
For each item, Bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.
Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.
6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
7. When requested by the Employer for the purposes of making payments or part payments, valuing variations or evaluating claims, or for such other purposes as the Employer may reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.
8. The bid price is inclusive of all Environmental, Health and Safety management and compliance cost, including the mitigation measures and monitoring program in the IEE/EARF.

Schedules of Rates and Prices

Schedule No. 1: Plant and Mandatory Spare Parts Supplied

Item	Description	Country of Origin	Quantity	Unit Price ^a	Taxes and Duties	Total
				DDP	Local Currency	Local Currency
1	2	3	4	5	6 = 4 x 5	7
TOTAL (to Schedule No. 4 Grand Summary)						

Name of Bidder _____

Signature of Bidder _____

^a Unit Price in DDP (Delivery Duty Paid)

Schedule No. 2: Design Services

Site investigation reports, detailed design works (structural computation/analysis, detailed construction drawings/plans and As-Built drawings).

Item	Description	Quantity	Total Price
			Php
1	2	3	4
	Field survey, site, soil and materials investigations reports, detailed design works complete with architectural, structural, electrical, mechanical, sanitary and plumbing, information and communication works, and other related works in accordance with the employer's requirements (structural computation/ analysis, detailed construction drawings/ plans and submission of as built drawings)	Lump Sum	
TOTAL (to Schedule No. 4 Grand Summary)			

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 – Civil Works and Other Services

Item	Description	Total Price
		PhP
1	2	3
3.1	Architectural Works	
3.2	Structural Works	
3.3	Mechanical Works	
3.4	Electrical and IT Works	
3.5	Plumbing and Sanitary Works	
3.6	Fire Protection and Suppression System	
3.7	Ancillary Structure and Works	
	Bidder to list other items necessary to complete the requirements of the Contract	
TOTAL (to Schedule No. 4 Grand Summary)		

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.1 – Architectural Works

Item	Description	UOM	Quantity	Unit Price	Total Price
				PhP	PhP
1	2		3	4	5 = 3 x 4
3.1.1	Exterior Design	LS			
3.1.2	Interior Design and Office Partitions	LS			
3.1.3	Floor Finish	LS			
3.1.4	Ceiling	LS			
	Bidder to list other items necessary to complete the requirements of the Contract				
TOTAL (to Schedule No. 3. Civil Works and Other Services)					

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.2 – Structural Works

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.2.1	Foundations	LS		
3.2.2	Columns	LS		
3.2.3	Girders and Beams.	LS		
3.2.4	Shear Walls	LS		
3.2.5	Masonry works	LS		
3.2.6	Roofing	LS		
3.2.7	Structural Fill	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.3 – Mechanical Works

The work shall include, but not limited to, the supply, installation, testing, adjustments, balancing and commissioning of the HVAC system, all in compliance to the Philippine Mechanical Code, Fire Code of the Philippines and other relevant codes, laws, ordinances and regulations and to the satisfaction of the Owner.

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.3.1	Air-conditioning System	LS		
3.3.2	Ventilating System	LS		
3.3.3	Testing and commissioning	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.4 – Electrical and IT Works

Supply and install complete lighting system including all lighting fixtures, conduits, fittings, wires and wiring devices as well as grounding system and lightning arrester. The use of energy efficient lights is mandatory. The Contractor shall likewise furnish and install complete power system including all feeders, branch, circuits, wires and wiring devices. The Contractor shall supply and furnish all materials brand new and of superior quality. All wires must be sized to accommodate peak loads and future installation of additional electric-powered equipment and machineries.

Item	Description	Quantity	Unit Price	Total Price	
			PhP	PhP	
1	2	3	4	5 = 3 x 4	
3.4.1	Complete Lighting System	LS			
3.4.2	Supply and install local area network (LAN) wiring and structured cabling and other accessories	LS			
3.4.3	Supply and install the following including all wiring and wiring devices and other accessories necessary for its function and operation	LS			
a	Public Address System,	LS			
b	Multi-Media Conference System at the board room	LS			
c	Audio System at the Meeting Room	LS			
d	Biometric Attendance System	LS			
e	Queuing System	LS			
3.4.4	Supply, installation, testing and commissioning of stand-by Generator with ATS	LS			
3.4.5	Security Monitoring System	LS			
3.4.6	Fire Detection and Alarm System	LS			
3.4.7	Telephone System	LS			
3.4.8	Data Center	LS			
3.4.9	Structured Cabling System - Supply and set up full cabling infrastructure to support data and voice points	LS			
3.4.10	Testing and commissioning	LS			
	Bidder to list other items necessary to complete the requirements of the Contract				
TOTAL (to Schedule No. 3. Civil Works and Other Services)					

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.5 – Plumbing and Sanitary Works

The Contractor shall supply and install complete plumbing and sanitary systems including fixtures, fittings, appurtenances and piping system, among others. The use of low-flow fixtures is hereby recommended. Complete installation shall mean not only the major equipment and apparatus conveyed in these specifications, but all the incidental sundry components necessary for the complete execution of the works and for the proper operation of the installation, whether or not these supply components are not mentioned in detail in these specifications.

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.5.1	Sanitary Drainage and Sewerage	LS		
3.5.2	Storm Drainage System	LS		
3.5.3	Water Distribution System	LS		
3.5.4	Plumbing Fixtures	LS		
	Bidder to list other items necessary to complete the requirements of the Contract	LS		
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.6 – Fire Protection and Suppression System

The fire prevention requirements, automatic fire sprinkler, fire hydrants and fire hoses shall be provided on locations as specified in the codes, standards and local building laws, as applicable.

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.6.1	Fire Hose Cabinet	LS		
3.6.2	Portable Fire Extinguishers	LS		
3.6.3	Pump and Motor System	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.7 – Ancillary Works

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.7.1	Site Development, Parking Area and Access Road	LS		
3.7.2	Drainage	LS		
3.7.3	Maintenance Manholes and Catch Basins	LS		
3.7.4	Perimeter Lighting	LS		
3.7.5	Pavement Markings, Traffic and Directional Signs	LS		
3.7.6	Mechanical Area / Power House	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.8 – General Requirements Breakdown

Item	Description	Quantity	Unit Price	Total Price
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.4.1	Mobilization/Demobilization	LS		
3.4.2	Required Signage	LS		
3.4.3	Contractual Compliance (bonds, insurances, permits and clearances)	LS		
3.4.4	Regulatory, Implementation of Construction Safety, Health Program, Quality Safeguard Measures	LS		
3.4.5	Environmental and Social Measures	LS		
3.4.6	Contractor's temporary office and provision for Employer's/ Engineer's temporary office including equipment	LS		
3.4.7	Provision for temporary storage and staging area for equipment and materials delivery during construction period	LS		
3.4.8	Temporary utilities (power, water, telecom)	LS		
3.4.9	Topographical Survey	LS		
3.4.10	Environmental Impact Assessment	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 3.9 – Miscellaneous Breakdown

Item	Description	Quantity	Unit Price ^a	Total Price ^a
			PhP	PhP
1	2	3	4	5 = 3 x 4
3.9.1	Training	LS		
3.9.2	Manuals	LS		
3.9.3	STI, STD and HIV/AIDS alleviation program	LS		
	Bidder to list other items necessary to complete the requirements of the Contract			
TOTAL (to Schedule No. 3. Civil Works and Other Services)				

Name of Bidder _____

Signature of Bidder _____

Each Item in the Contract Price Breakdown shall be clearly identifiable sections of work and related to the items in the Works Program, Activity Schedule and the Payment Schedule. The Bidder may expand each Item into as many Sub-Items, clearly described, as it wishes to allow identification of tangible completion of the items of work.

Schedule No. 4: Grand Summary

Schedule No.	Title	Total Price
		Php
1	Plant and Mandatory Spare Parts ^b	
2	Design Services	
3	Civil Works and Other Services	
Grand Total to be carried forward to Letter of Price Bid (including duties and taxes)		

Name of Bidder _____

Signature of Bidder _____

^b Taxes and/or duties from Schedules 1 and 2 may be added to the contract price in accordance with GCC 14 (Taxes and Duties) but excluded from bid evaluation in accordance with ITB 39.2.

Schedule No. 5: Recommended Spare Parts

Item	Description	Quantity	Unit Price	Total Price
			DDP Local Parts	Php
1	2	3	4	5 = 3 x 4
TOTAL (to Schedule No. 5. Recommended Spare Parts)				

Name of Bidder _____

Signature of Bidder _____

Bid Security

Bank Guarantee

..... *Bank's name, and address of issuing branch or office*⁵

Beneficiary: *Name and address of the employer*

Date:

Bid Security No.:

We have been informed that *name of the bidder*. (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of *name of contract* under Invitation for Bids No. ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *name of Bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *amount in words* (*amount in figures*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letters of Technical and Price Bid, or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"), or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.⁶

..... *Authorized signature(s) and bank's seal (where appropriate)*

⁵ All italicized text is for use in preparing this form and shall be deleted from the final document.

⁶ Or 758 as applicable.

Bid-Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.: *[insert number of bidding process]*

Alternative No.: *[insert identification No if this is a bid for an alternative]*

To: *[insert complete name of the employer]*

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Borrower for the period of time of *[insert number of years as indicated in ITB 21.2 of the BDS]* starting on the date that we receive a notification from the Employer, if we are in breach of our obligation(s) under the bid conditions, because we

- (a) have withdrawn our Bid during the period of bid validity specified in the Letters of Technical and Price Bid; or
- (b) do not accept the correction of errors in accordance with the Instruction to Bidders (hereinafter “the ITB”); or
- (c) having been notified of the acceptance of our Bid by the Employer during the period of bid validity, (i) fail or refuse to execute the Contract; if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB.

We understand that this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) 28 days after the expiration of our Bid.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid-Securing Declaration]*

Name: *[insert complete name of person signing the Bid-Securing Declaration]*

Duly authorized to sign the bid for and on behalf of *[insert complete name of the bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Corporate Seal *(where appropriate)*

Technical Proposal

- I. **Site Organization**
- II. **Method Statement**
- III. **Mobilization Schedule**
- IV. **Construction Schedule**
- V. **Plant**
- VI. **Personnel**
- VII. **Equipment**
- VIII. **Proposed Subcontractors for Major Items of Plant and Services**
- IX. **Manufacturer's Authorization**
- X. **Affiliate Company Guarantee**
- XI. **Time Schedule**
- XII. **Functional Guarantee of the Proposed Facilities (not applicable)**
- XIII. **COVID-19 specific Site Health and Safety Management Plan**

I. Site Organization

The Bidder shall describe the site organization and management team that it will establish for the design and construction works. The Bidder shall indicate the functions and responsibilities of the indicated staff and describe how they will function as a team to achieve a successful project.

II. Method Statement

Program

The bidder shall present a program that meets the Construction Schedule and clearly shows the relationships between mobilization, design including review time, procurement, construction, and commissioning. The Bidder shall include a narrative, which explains the construction schedule logic, the activity durations, risk considerations and other important factors.

Specific Management Plans

The Bidder shall submit outlines of the specific management plans to be developed under the contract as indicated below. As a minimum, these outline plans shall indicate the structure and contents of the full plans required under the Contract together with an outline of the bidders' intentions.

1. Safety Management Plan

The Bidder shall provide an overview of the project specific safety risks and indicate the safe work practices that will be introduced as part of the safety management on site. The Bidder's safety objectives for the project shall be stated. The personnel responsible for safety must be identified.

2. Quality Management Plan

Describe how the Bidder intends to execute quality control during both design and construction. The Bidder shall identify where and which materials will be tested during construction. If a site laboratory is proposed, the Bidder shall indicate the main testing equipment that will be provided. The Bidder shall indicate how the quality management team will maintain independence during construction.

3. Project Management Plan

Provide an overview discussion of the Bidder's approach to project planning and control for the project. Describe project specific planning and program management actions that will give confidence that the works will meet the required performance criteria and be delivered on time.

4. Risk Management Plan

Provide an overview discussion of the value of implementing a risk management plan. The Bidder shall address the principal concerns for delivery of the Works and describe the general approach to monitor and control risk.

5. Procurement Management Plan

The Bidder shall indicate how it plans to procure and manage the delivery of materials and equipment for the Works. The plan shall identify suppliers, transportation plans, and site management of materials to be employed for the duration of the Works.

III. Mobilization Schedule

The Bidder shall provide a Mobilization Schedule on the manner, time and place of the following:

- Formation of the project team to commence the design and planning
- Development of site for construction activity delivery of construction equipment and materials to the site.
- Clearing of the site

The planned site development should be presented on A3 prints and should indicate the following:

- Offices
- Sanitary, first aid, canteen and other labor activities
- Security and fencing
- Access / haul roads
- Material storage areas
- Equipment maintenance areas
- Fuel storage areas
- Hazardous material storage areas
- Limits of construction
- Batching plant and fabrication area

IV. Construction Schedule

The Bidder shall present a design and construction schedule that meets the Contract requirements to include key milestones from Commencement Date, including start and completion of:

- Mobilization
- Site Establishment
- Sectional Design Submissions
- Construction of different sections including temporary works and their removal
- PERT-CPM
- Commissioning

V. Plant

VI. Personnel

Form PER – 1: Proposed Personnel

Bidders should provide the details of proposed personnel and their experience record in the relevant Information Forms below for each of the candidate.

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name
etc.	Title of position*
	Name

-- Note --

* As listed in Section 6 (Employer's Requirements).

Form PER – 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below. Use one form for each position.

Position		
Personnel information	Name	Date of birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager/personnel officer)
	Fax	E-mail
	Job title	Years with present employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project. Valid licenses issued by the Professional Regulatory Commission (PRC) or its equivalent shall be included for design professionals.

From	To	Company/Project/Position/Relevant Technical and Management Experience

VII. Equipment

Form EQU: Equipment

The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to meet the equipment requirements indicated in Section 6 (Employer's Requirements), using the Forms below. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment		
Equipment Information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental/lease/manufacture agreements specific to the project	

VIII. Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services

The following Subcontractors and/or Manufacturers are proposed for carrying out the item of the facilities indicated based on Criterion 2.5 of Section 3 (Evaluation and Qualification Criteria). Bidders are free to propose more than one for each item.

Major Items of Plant and Services	Proposed Subcontractors or Manufacturers	Nationality

IX. Manufacturer's Authorization

Date: *[insert date (as day, month and year) of bid submission]*

OCB No.: WDDSP-PLAWD-OCB-CW10c

To: *[insert complete name of the employer]*

WHEREAS

We *[insert complete name of the manufacturer or manufacturer's authorized agent]*, who are official manufacturers or agent authorized by the Manufacturer of *[insert type of goods manufactured]*, having factories at *[insert full address of manufacturer's factories]*, do hereby authorize *[insert complete name of the bidder]* to submit a bid the purpose of which is to provide the following goods, manufactured by us *[insert name and/or brief description of the goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the General Conditions of Contract, with respect to the goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of *[insert complete name of the manufacturer]*

Dated on _____ day of _____, _____ *[insert date of signing]*

-- Note --

The bidder shall require the manufacturer to fill out this form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the manufacturer. The bidder shall include it in its bid, if so indicated in the BDS.

X. Affiliate Company Guarantee

Name of Contract/Contract No.: _____

Name and address of Employer: _____

(together with successors and assigns).

We have been informed that [name of Contractor] (hereinafter called the "Contractor") is submitting an offer for the above-referenced Contract in response to your invitation, and that the conditions of your invitation require its offer to be supported by an affiliate company guarantee.

In consideration of you, the Employer, awarding the Contract to the Contractor, we [name of affiliated company] irrevocably and unconditionally guarantee to you, as a primary obligation, that (i) throughout the duration of the Contract, we will make available to the Contractor our financial, technical capacity, expertise and resources required for the Contractor's satisfactory performance of the Contract; and (ii) we are fully committed, along with the Contractor, to ensuring a satisfactory performance of the Contract.

If the Contractor fails to so perform its obligations and liabilities and comply with the Contract, we will indemnify the Employer against and from all damages, losses and expenses (including legal fees and expenses) which arise from any such failure for which the Contractor is liable to the Employer under the Contract.

This guarantee shall come into full force and effect when the Contract comes into full force and effect. If the Contract does not come into full force and effect within a year of the date of this guarantee, or if you demonstrate that you do not intend to enter into the Contract with the Contractor, this guarantee shall be void and ineffective. This guarantee shall continue in full force and effect until all the Contractor's obligations and liabilities under the Contract have been discharged, when this guarantee shall expire and shall be returned to us, and our liability hereunder shall be discharged absolutely.

This guarantee shall apply and be supplemental to the Contract as amended or varied by the Employer and the Contractor from time to time. We hereby authorize them to agree on any such amendment or variation, the due performance of which and compliance with which by the Contractor are likewise guaranteed hereunder. Our obligations and liabilities under this guarantee shall not be discharged by any allowance of time or other indulgence whatsoever by the Employer to the Contractor, or by any variation or suspension of the works to be executed under the Contract, or by any amendments to the Contract or to the constitution of the Contractor or the Employer, or by any other matters, whether with or without our knowledge or consent.

This guarantee shall be governed by the law of the same country (or other jurisdiction) as that which governs the Contract and any dispute under this guarantee shall be finally settled under the [Rules or Arbitration provided in the Contract]. We confirm that the benefit of this guarantee may be assigned subject only to the provisions for assignment of the Contract.

Signed by:.....
[signature]
.....
[name]
[name]
[position in parent/subsidiary company]

Signed by:
[signature]
.....
[position in parent/subsidiary company]

Date:.....

-- Note --

If permitted in accordance with ITB 35.2 of the BDS, the Bidder shall fill out the Affiliate Company Guarantee Form for each subsidiary, parent entity, affiliate, subcontractor, etc. that the Bidder submits for consideration of the Employer in determining its qualifications.

XI. Time Schedule

To be used by Bidder when alternative Time for Completion is invited in ITB 13.

XII. Functional Guarantee of the Proposed Facilities (not applicable)

XIII. COVID-19 specific Site Health and Safety Management Plan

Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of a Joint Venture, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone number(s), fax number(s), e- mail address)	

Attached are copies of the following documents:

- 1. In case of a single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2
- 2. Authorization to represent the firm or Joint Venture named above, in accordance with ITB 22.2
- 3. In case of a Joint Venture, a letter of intent to form a Joint Venture or Joint Venture agreement, in accordance with ITB 4.1
- 4. In case of a government-owned enterprise, any additional documents not covered under 1 above required to comply with ITB 4.5
- 5. For foreign bidders the following shall be submitted
 - The company registration, Business Permit, or License to establish its eligibility as Contractor to undertake a project this nature and size in accordance with ITB
 - The certified translation of said documents, in case the original documents are provided in language other than English language.
- 6. Additional documents in the case of domestic bidders to be submitted by the lowest evaluated bidder prior to the contract award.
 - SEC/DTI Registration Certificate
 - Valid Business/Mayor's Permit
 - Valid Tax Clearance
 - Audited Financial Statements showing, among others, the prospective Bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission
 - Valid PCAB License
 - Category B – Medium A (General Building)And/OR
 - Valid PhilGEPS Certificate of Registration and Platinum Membership (with updated eligibility documents listed above, if necessary)

Form ELI - 2: Joint Venture Information Sheet

Each member of the Joint Venture must fill out this form separately. Subcontractor must fill out this form.

Joint Venture/Subcontractor Information	
Bidder's legal name	
Joint Venture Partner's or Subcontractor's legal name	
Joint Venture Partner's or Subcontractor's country of constitution	
Joint Venture Partner's or Subcontractor's year of constitution	
Joint Venture Partner's or Subcontractor's legal address in country of constitution	
Joint Venture Partner's or Subcontractor's authorized representative information (name, address, telephone number(s), fax number(s), e-mail address)	

Attached are copies of the following documents:

- 1. Articles of Incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2
- 2. Authorization to represent the firm named above, in accordance with ITB 22.2
- 3. In the case of a government-owned enterprise, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5
- 4. For foreign bidders the following shall be submitted
 - The company registration, Business Permit, or License to establish its eligibility as Contractor to undertake a project this nature and size in accordance with ITB 15
 - The certified translation of said documents, in case the original documents are provided in language other than English language.
- 5. Additional documents in the case of domestic bidders to be submitted by the lowest evaluated bidder prior to the contract award.
 - SEC/DTI Registration
 - Valid Business/Mayor's Permit
 - Valid Tax Clearance
 - Audited Financial Statements showing, among others, the prospective Bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission
 - Valid PCAB License
Category B – Medium A (General Building)
and/OR
 - Valid PhilGEPS Certificate of Registration and Platinum Membership (with updated eligibility documents listed above, if necessary)

Subcontractors are those listed in Technical Proposal – Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services.

Form CON – 1: Historical Contract Non-Performance

Each Bidder must fill out this form in accordance with Criteria 2.2.1 and 2.2.3 of Section 3 (Evaluation and Qualification Criteria) to describe any history of non-performing contracts and pending litigation or arbitration formally commenced against it.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

Table 1: History of Non-Performing Contracts			
Choose one of the following:			
<input type="checkbox"/> No non-performing contracts.			
<input type="checkbox"/> Below is a description of non-performing contracts involving the Bidder (or each Joint Venture member if Bidder is a Joint Venture).			
Year	Description	Amount of non-performed portion of contract (\$ equivalent)	Total Contract Amount (\$ equivalent)
<i>[insert year]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>	<i>[insert amount]</i>

Form FIN - 1: Historical Financial Performance

Each Bidder must fill out this form.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

Financial Data for Previous Years [PhP Equivalent]		
Year 1:	Year 2:	Year __:

Information from Balance Sheet

Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA-TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA – CL			

Most Recent Working Capital		To be obtained for most recent year and carried forward to FIN - 3 Line 1; in case of Joint Ventures, to the corresponding Joint Venture Partner's FIN – 3.
------------------------------------	--	---

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three (3) years, as indicated above, complying with the following conditions.

- Unless otherwise required by Section 3 of the Bidding Documents, all such documents reflect the financial situation of the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates.
- Historical financial statements must be audited by a certified accountant.
- Historical financial statements must be complete, including all notes to the financial statements.
- Historical financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Average Annual Turnover

Each Bidder must fill out this form.

The information supplied should be the Annual Turnover of the Bidder or each member of a Joint Venture in terms of the amounts billed to clients for each year for work in progress or completed, converted to US dollars at the rate of exchange at the end of the period reported.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

Annual Turnover Data for the Last Years			
Year	Amount Currency	Exchange Rate	\$ Equivalent
Average Annual Turnover			

Form FIN – 3: Availability of Financial Resources

Bidders must demonstrate sufficient financial resources, usually comprising of Working Capital supplemented by credit line statements or overdraft facilities and others to meet the Bidder's financial requirements for

- (a) its current contract commitments, and
- (b) the subject contract.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

Financial Resources		
No.	Source of financing	Amount (\$ equivalent)
1	Working Capital (to be taken from FIN - 1)	
2	Credit Line ^a	
3	Other Financial Resources	
Total Available Financial Resources		

^a To be substantiated by a letter from the bank issuing the line of credit.

Form FIN- 4: Financial Requirements for Current Contract Commitments

Bidders (or each Joint Venture partner) should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

Current Contract Commitments						
	Name of Contract	Employer's Contact (Address, Tel, Fax)	Contract Completion Date	Outstanding Contract Value (X) ^a	Remaining Contract Period in months (Y) ^b	Monthly Financial Resources Requirement (X / Y)
1						
2						
3						
4						
Total Monthly Financial Requirement for Current Contract Commitments						\$

^a Remaining outstanding contract values to be calculated from 28 days prior to the bid submission deadline (\$ equivalent based on the foreign exchange rate as of the same date).

^b Remaining contract period to be calculated from 28 days prior to bid submission deadline.

Form FIN - 5: Self-Assessment Tool for Bidder’s Compliance to Financial Resources (Criterion 2.3.3 of Section 3)

This form requires the same information submitted in Forms FIN - 3 and FIN - 4. All conditions of “Available Financial Resources Net of CCC ≥ Requirement for the Subject Contract” must be satisfied to qualify.

Form FIN - 5A: For Single Entities

For Single Entities: (A)	Total Available Financial Resources from FIN – 3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [D must be greater than or equal to E] (F)
_____ (Name of Bidder)				

Form FIN - 5B: For Joint Ventures

For Joint Ventures: (A)	Total Available Financial Resources from FIN – 3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [D must be greater than or equal to E] (F)
One Partner:					
_____ (Name of Partner)				
Each Partner:					
_____ (Name of Partner 1)				
_____ (Name of Partner 2)				
_____ (Name of Partner 3)				
All partners combined	Σ D = Sum of available financial resources net of current contract commitments for all partners		Σ D = _____	

Form FIN – 5 is made available for use by the bidder as a self-assessment tool, and by the employer as an evaluation work sheet, to determine compliance with the financial resources requirement as stated in 2.3.3. Failure to submit Form FIN - 5 by the Bidder shall not lead to bid rejection.

Form EXP – 1: Contracts of Similar Size and Nature

Fill out one (1) form per contract.

The exchange rate to be used to calculate the value of the contract for conversion to a specific currency shall be the selling rate of the borrower's national bank on the date of the contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor
Total Contract Amount	\$	
If partner in a Joint Venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's name Address Telephone number Fax number E-mail		
Description of the Similarity in Accordance with Criterion 2.4.1 of Section 3 (Evaluation and Qualification Criteria)		

Note: The above should be supported with Contractor's Performance Evaluation System (CPES), in the case of domestic bidders, or certificate of completion or owner's acceptance.

Form EXP - 2: Experience in Key Activities

Fill out one (1) form per contract.

Each Bidder must fill out this form.

In case of a Joint Venture, at least one of the Joint Venture Partners who will comply with the requirements must fill out this form and provide the Joint Venture Partner's name below:

Joint Venture Partner: _____

If complied by Specialist Subcontractor, the Specialist Subcontractor must fill out this form and provide the Specialist Subcontractor's name below:

Specialist Subcontractor: _____

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	\$	
If partner in a Joint Venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's name Address Telephone number Fax number E-mail		
Description of the Key Activities in Accordance with Criterion 2.4.2 of Section 3 (Evaluation and Qualification Criteria)		

Form EXP - 3: Subcontractors

Fill out one (1) form per contract.

Contract for the Major Items		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	\$	
If partner in a Joint Venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's name Address Telephone number Fax number E-mail		
Description of the Major Items in Accordance with Criterion 2.5 of Section 3 (Evaluation and Qualification Criteria)		

Section 5 - Eligible Countries

Regional Members		Non-regional Members
Afghanistan	Mongolia	Austria
Armenia	Myanmar	Belgium
Australia	Nauru	Canada
Azerbaijan	Nepal	Denmark
Bangladesh	New Zealand	Finland
Bhutan	Niue	France
Brunei Darussalam	Pakistan	Germany
Cambodia	Palau	Ireland
China, Peoples Republic of	Papua New Guinea	Italy
Cook Islands	Philippines	Luxembourg
Fiji	Samoa	The Netherlands
Georgia	Singapore	Norway
Hongkong, China	Solomon Islands	Portugal
India	Sri Lanka	Spain
Indonesia	Taipei, China	Sweden
Japan	Tajikistan	Switzerland
Kazakhstan	Thailand	Turkey
Kiribati	Timor-Leste	United Kingdom
Korea, Republic of	Tonga	United States
Krgyz, Republic of	Turkmenistan	
Lao PDR	Tuvalu	
Malaysia	Uzbekistan	
Maldives	Vanuatu	
Marshall Islands	Vietnam	
Micronesia, Federated States of		

Section 6: Employer’s Requirements

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1 PROJECT DESCRIPTION

Plaridel Water District (PLAWD) is one of the beneficiaries of the LWUA-ADB Loan which aims to improve the water service delivery to its concessionaires. One package of the project is the construction of new office building including warehouse and parking spaces. This package is to be funded by ADB through loan. The lot allotted for the construction of the project is owned by PLAWD and serve as an equity to the project.

At present, PLAWD is composed of three (3) divisions comprising the Administration, Commercial and Engineering Division. Current staff count is 132 which are categorized permanent (73) and temporary (59). Additional permanent staffs will be hired as soon as the water rate adjustment is implemented.

Currently, the PLAWD office building is located in AC Reyes St., Poblacion and the lot is owned by LGU. To have an office building with workable and harmonious environment, PLAWD proposed a 3-storey building with warehouse. The office layout shall be strategically planned based on their functionality, serving continuous flow of private and public transactions.

2 PROJECT SITE

2.1 General

The proposed building is to be constructed within the PLAWD property in Barangay Bintog along Gen. Alejo G. Santos Highway with an approximate total construction (land) area of 1,008 sq.m.

The project site has an existing 2-storey office building and a deepwell pump that is currently utilized as Pump Station with office (refer to the Existing Site Plan under Concept Design Drawings).

With the proposed construction, the aforementioned existing structure will be affected and thereby needs to be demolished, except for the deepwell that will be retained and remain operational during the construction.

The existing structure shall be left functional and protected while the construction work is on-going.

2.2 Preliminary Survey and Mapping

The Contractor shall establish construction control points in any preferred number and location to be used during construction. All construction alignment, vertical or horizontal, shall be referred to the established control points.

a. Boundaries

The Contractor shall be responsible for verifying the property boundaries for the construction of perimeter fence based on the approved technical description of the lot to be provided by the Owner.

b. Existing Terrain, Line and Grade

Drawings are based on spot survey relative to the existing road centerline. The Contractor shall, however, validate such data on the field during the Design Phase.

c. Location and Orientation of Facilities

Property setback requirement shall be compliant to the requirement of the National Building Code of the Philippines and other governing codes.

2.3 Preliminary Investigations

a. Soil and Geotechnical

The Contractor shall, however, conduct further geotechnical investigations should he deemed necessary to validate previously obtained data and conclude his design computations and analysis.

b. Hydrology

The climatic condition of Plaridel is generally temperate, with no pronounced rainy and dry season. The Contractor has the responsibility to gather and secure such hydrologic information to be used in his design. Considerations shall also be taken into account concerning the dramatic weather changes of past few years, which may be attributed to climate change.

c. Hydraulic

The lowest elevation is located at the northern part of the project site as shown in the Site Grading Plan. Existing street drainage are located along Gen. Alejo G. Santos Highway. However, due to the limitations of the information of the drainage system, the Contractor shall conduct an actual site inspection and validation.

d. Seismic

Plaridel belongs to Zone 4 based from the Seismic Zone Map of the Philippines. The designer shall refer to the latest edition of the National Structural Code of the Philippines for complete parameters of seismic design.

e. Environmental Conditions

Climate

The Municipality of Plaridel generally falls under Type I category of the Philippine Climate Corona Classification. Areas with this type of climate have distinct pronounce wet and dry seasons. The months of June to November are considered rainy season period with rainfalls ranging from 1,000 mm to more than 5,000 mm.

Wind

Bulacan Weather Forecast website provides a local 3 hourly Bulacan weather forecast of rain, sun, wind, humidity and temperature.

The Long-range 10 day forecast also includes detail for Bulacan weather today. Live weather reports from Bulacan weather stations and weather warnings that include risk of thunder, high UV index and forecast gales.

Site Preparation

During vegetation clearing, there are a total number of 7 trees affected and these are six (6) mango trees with a trunk diameter ranges from 25-60 cm and one (1) mahogany tree with a trunk diameter of 60 cm., see Appendix 2: Bintog-Project Lot with Tree Details.

Prior to any clearing operations, a tree inventory following the guidelines and requirements of the DENR will be conducted as part of the application for a tree cutting permit. The project effects shall be mitigated, directly or indirectly, through planting of the corresponding number of seedlings as prescribed by the tree cutting permit. In addition, the Project-affected trees qualified for earth-balling shall be properly transplanted to minimize the biomass removal and attenuate the GHG emissions.

Soil Erosion and Sediment from Construction Sites

During rainy seasons, exposed soil at the construction site can easily be eroded and carried to the natural drainage system if preventive measures are not established.

In preventing erosion, surface runoff must be controlled using structural erosion prevention and sediment control practices which will divert the storm water flows away from the exposed areas, prevent sediments from moving offsite, and reduce the erosive forces of runoff waters. These measures must be established by the contractor: (i) interceptor dikes, (ii) pipe slope drains, (iii) straw bale barriers, (iv) sediment traps, and (v) temporary sediment basins. Whenever possible, total exposed area shall be minimized.

Source: Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAG-ASA), Manual on Flood Control Planning by DPWH and Japan International Cooperation Agency.

2.4 Existing Utility Locations

The project area has an existing utility network for potable water and power supply system along Gen. Alejo G. Santos Highway. Site validation has to be undertaken to assess its effect to the new construction.

3 PROJECT DEFINITION

3.1 General Requirement

The Owner/Procuring Entity does not guarantee that the preliminary data provided are fully correct, up to date and applicable to the project. The Contractor shall be solely responsible for the accuracy and applicability of all data that it will use in its design and build proposal and services. It shall also be responsible for the integrity of the detailed engineering design and the

performance of the structure irrespective of the approval of the Owner/Procuring Entity. It shall also be solely responsible for the design and liable for the structural defects and/or failures of the completed project.

The Contractor shall conceptualize a high-performance office building that will enhance energy and environmental performance, increase worker’s productivity, greater flexibility, safe, healthy, comfortable, durable, aesthetically pleasing and technologically advanced working environment.

The required minimum areas of the building are as follows:

- (a) Basement with Car Ramp, Warehouse/Storage Room and parking space - 606 square meters
- (b) Ground Floor with elevated parking space– 510 square meters
- (c) Second Floor – 510 square meters

- (d) Perimeter Fence- 114 meters

Site development and landscape design shall be environmentally-sensitive design, integrating natural areas into land development plans which allow ecosystem maintenance and sustainability.

Site development shall include side walk and loading/unloading bay for public utility vehicle (PUV).

Parking areas, and other ancillary spaces shall be considered in the site development plans. Perimeter fence with lighting shall likewise be provided. Loading and unloading areas shall be so designed to provide ease and smooth flow of traffic.

Landscape design shall utilize ornamental plants and trees to provide shade and reduce urban heat. Drip irrigation shall be provided for the vegetated areas. Existing trees that were cut-out shall be replace with appropriate suitable roots in parking space, strategically located to provide shade to cars.

3.2 Drawings

Please see Office Building Concept Design

3.3 Architectural Design Concept

Sustainability and environmentally low-impact design shall be integrated in the design of the proposed building. The concept of Green Architecture is significantly recommended to address the effects of climate change and global warming as these two vastly penetrated the world. This concept mainly advocates sustainable energy sources, the conservation of energy, the reuse and safety of building materials, and the siting of a building with consideration of its impact on the environment creating a sustainable building design; a means for reducing building operating costs and encompasses the basic principles of healthy lifestyle without compromising the functional, aesthetic and space efficiency of the building.

The design shall consider the utilization of natural lighting and highly efficient materials thereby reducing energy costs.

An elevated finished grade is likewise recommended to ensure protection from flood waters.

3.4 Structural Design Concept

Structural framing shall be composed of reinforced concrete and structural steel. Structural materials shall be locally available and accessible to avoid inconvenience and delay. Likewise, adopt economical design without compromising the allowable factor of safety for structural design.

3.5 Electrical Design Concept

General lighting design shall be adequate for office functions. The use of LED lighting systems is recommended. Ornamental lighting design can be considered if it is necessary. Electrical wiring systems shall also consider provisions for future electrical expansions and developments.

3.6 Mechanical Design Concept

Fire protection and fire suppression systems shall be provided with wet and dry stand pipes, fire hose cabinets, fire extinguishers, addressable type fire alarm system and sprinkler system, smoke detector and fire exits, among others.

Air-conditioning system shall be provided using energy-saving and cost-saving technology.

3.7 Information & Communications Design Concept

Data and voice system shall include Local Area Network (LAN) wiring, cabling and roughing-ins. All tables and cubicles shall have ready-provision for data and voice systems. Telephone system design shall suit the PLAWD operations with easy and quick communication links between main and satellite offices. Provisions for LAN and telephone system expansion and development shall be considered.

Security monitoring system shall be provided including all the necessary devices, wirings and accessories for CCTV system to be located on strategic locations as specified elsewhere in these specifications.

Biometric attendance machine (finger scanner type) shall be provided per floor for log-in/log-out transactions of employees. The system shall be programmable to cater all employees' log transactions at any of the installed biometrics.

Queuing machine system shall be provided at the customer's lounge to facilitate transactions.

Public address system shall be provided at the main building, laboratory building and office canteen.

3.8 Sanitary and Plumbing Design Concept

Plumbing and sanitary systems shall use low-flow plumbing fixtures. Rooftop downspouts shall be directed to the rain catcher system. Such rain catcher system shall serve as retention pond to delay surface run-off into the street drainage. It shall be designed to infiltrate the rain water back into the ground while the excess are discharged to the storm drainage. Sewerage system shall be considered in the design.

Provisions for future plumbing and sanitary expansions and development shall be considered.

4 GENERAL CODE AND STANDARDS

The design and specifications shall conform to, but shall not be limited to the following standards set by the:

National Building Code of the Philippines (NBCP), latest edition
National Structural Code of the Philippines (NSCP), latest edition
Fire Code of the Philippines (PD 1185)
Uniform Building Code
Accessibility Law (BP 344)
Philippine Electrical Code (RA 184)
Philippine Mechanical Code
Revised National Plumbing Code of the Philippines (RA 1378)
Code on Sanitation of the Philippines (PD 856)
Ecological Solid Waste Management Act (RA 9003)
Applicable Local Regulations and Ordinances

With respect to the actual construction, applicable rules and regulations prescribed by the following agencies and/or embodied in the following shall be observed:

Department of Public Works and Highways
Department of Health
National Pollution Control Commission
Department of Environment and Natural Resources
Bureau of Fire Protection
Applicable Building Laws in the Municipality

5 SCOPE OF WORK

The Contractor is required to perform the following scope of work:

5.1 Review of Existing Information

Review the basic design parameters, space distribution matrix, affected facilities and detailed scope of works.

The Contractor shall ensure that it has the first hand project information, environmental conditions, survey & investigation reports, and geotechnical investigation report, that are readily available from the Owner. Such will be used to define project design criteria and serve as basis for any changed conditions and establish project cost estimates.

5.2 Field Survey and Site Inspection

The Contractor shall conduct site survey including staking, establishing of horizontal and vertical control points, benchmarks and topographic surveys (should be deemed necessary).

The Contractor shall have inspected the site of Works and its surrounding and orient himself pertaining the project – location and nature of work; climatic conditions; nature and condition of the terrain; geological conditions at the site; transportation and communication facilities; availability of construction materials, labor, water, electric power and roads; the locations and extent of aggregate sources, and other factors that may affect the cost, duration and execution of the work.

5.3 Soils and Materials Investigations

The Contractor shall conduct further soil investigations on site where both disturbed and undisturbed samples will be taken at intervals sufficient to determine the requirement in his design calculations and analysis. Analysis and testing will be carried out as required in accordance with the latest ASTM Standards.

5.4 Architectural Works

The Contractor is enjoined to have thorough understanding of the type and flow of transactions handled and services provided by PLAWD to its concessionaires. The architectural layout of the proposed building shall align to the development of the institution and its environs. The architectural features shall address the need of the institution and its clientele. The design shall be responsive to the flow of people in and out of the building, vehicles and activity within and proximate to the project site and to the nearby commercial and residential establishments.

The building design/facade shall adopt contemporary (modern) designs. Exterior design shall be a combination of curtain glass wall, painted concrete and masonry, and aluminum composite. Office partitions shall be a combination of drywall painted panels, glass walls, and CHB. Flooring finishes shall be a combination of homogeneous tiles, ceramic tiles and carpet tiles. Ceiling shall be a combination of acoustic board, gypsum board and aluminum composite.

The architectural design shall address all the requirements in the Space Distribution Matrix and other requirements elsewhere in these specifications and shall be compliant to the National Building Code of the Philippines and all other relevant codes and standards.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

5.5 Structural Works

The Contractor shall prepare the necessary structural analysis, calculations and design of structural members (foundations, columns, girders, beams, shear walls) in accordance with the National Building Code of the Philippines, National Structural Code of the Philippines, and other relevant codes. The design of the structure shall take into account, among others, the seismic requirements of the area to attain the optimum safety of the whole structure and minimize possible earthquake damage.

The Contractor shall prepare the structural design of the structure on the basis of the data obtained from site investigations and survey of existing site conditions, soil/geotechnical survey,

foundation investigation, material testing, seismic requirement of the area and other investigations necessary in standard engineering practice to ensure safety of the structure.

Design loads shall be derived based on applicable provisions of the 2010 National Structural Code of the Philippines, Volume 1 – Buildings, Towers and Other Vertical Structures.

At the end of the design stage, the Contractor is expected to come up with the design construction plans.

5.6 Mechanical Works

The Contractor shall design all mechanical works in conformity to the Philippine Mechanical Code, Fire Code of the Philippines and other relevant codes, laws and ordinances.

The scope of work of the Contractor consists of performing all operations involved in the detailed design, supply, installation, balancing and testing of the HVAC system and fire protection and suppression systems, all in compliance to the Philippine Mechanical Code, Fire Code of the Philippines and other relevant codes, laws, ordinances and regulations and to the satisfaction of the Owner.

The design of the air-conditioning system shall be in accordance with the latest air conditioning technology, either for centralized air conditioning or for a segregate air conditioning system.

The Contractor shall supply and furnish all materials brand new and of superior quality.

In general, the work shall include, but not limited to, the design, supply, and installation and putting the system into satisfactory operation of the following principal items:

1. Air-conditioning system, including controls, related accessories and pipings;
2. Air distribution ductwork, plenums, grilles, dampers, and related accessories;
3. Exhausts systems including fans and ductwork.
4. Local ventilation system for transformer rooms, emergency, generator rooms, electrical rooms, and any other areas that require mechanical ventilation;
5. Automatic control system and other devices;
6. Thermal insulation for refrigerant piping, air-conditioning and exhausts ductworks;
7. Noise and vibration control materials and devices;
8. Fuel oil system for the emergency generators complete with storage and auxiliary tanks, pumps and piping, including generator flue gas exhaust and radiator discharge ductwork;
9. Life safety system and smoke evacuation/extraction systems;
10. Motor controllers, including variable frequency drives as required, and motors, controllers and control devices as required and motor control centers;
11. Electrical wiring interconnection between motors, controllers and control devices as required for the proper operation of the systems;
12. Testing, adjustments, balancing and commissioning of all systems;
13. Painting and labeling of all equipment and accessories.

The design and provision of the HVAC system shall comply with the following codes and standards:

Code

1. Philippine Mechanical Code
2. Uniform Mechanical Code
3. Fire Code of the Philippines
4. National Building Code of the Philippines
5. Philippine Electrical Code
6. Revised National Plumbing Code of the Philippines
7. Uniform Building Code

Standards

1. American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), current editions
2. American Society of Mechanical Engineer (ASME)
3. National Fire Protection Association (NFPA)
4. American Society of Testing Materials (ASTM)
5. Air Moving and Conditioning Association (AMCA)
6. Air Diffusion Council (ADC)
7. American National Standard Institute (ANSI)
8. American Refrigeration Institute (ARI)
9. Sheet Metal and Air Conditioning Contractor’s National Association, Inc. (SMACNA)
10. National Electrical Manufacturer’s Association (NEMA)
11. Underwriters Laboratory (UL)
12. Factory Mutual (FM)
13. Deutsh Industrie Norm (DIN)
14. Japanese Industrial Standards (JIS)
15. British Standards (BS)

5.7 Description of System

Air-Conditioning System. The air-conditioning requirement of the building shall be served by a direct-expansion, Variable Refrigerant Flow (VRF) units. Air-conditioned areas shall be provided with a combined ceiling-concealed type Fan Coil Units and split-type wall mounted Fan Coil Units. Outdoor units (ACCU) shall be located at each respective floor level. The condensing units can be installed and hanged with brackets or floor mounted.

Ventilating System. All toilet, pantries, and active storage rooms shall be provided with local mechanical exhaust fans. Air ventilation shall be through galvanized steel ductwork.

5.8 Equipment Specification Guideline

1. Variable Refrigerant Flow (VRF) Units
 - a. General
 - a.1 Unit shall be air cooled, split-type, multi-system air conditioner consisting of one outdoor unit and plural indoor units, each having capability to cool independently for the requirements of the rooms. Up to 8 different type and capacity, indoor units can be connected to one refrigerant circuit and controlled individually.

- a.2 Inverter controlled compressor shall be capable of changing the speed linearly to follow variations in cooling and heating load. Outdoor unit shall be suitable for mix-match connection of the following models: (1) Ceiling concealed type; (2) Wall mounted type.
- a.3 The refrigerant piping can be extended up to 100m with 50m level difference without any oil traps. The 50m level difference is based on the case where the outdoor unit is located above the indoor unit. Where the outdoor unit is located under the indoor unit, the difference is at maximum of 40m. The level difference between indoor units in one refrigerant circuit shall be 15m. Both indoor unit and outdoor unit are assembled, tested, and charged with refrigerant at the factory.
- b. Capacity

Unit shall have a total capacity as shown on conceptual floor plans.
- c. Refrigerant Circuit
 - c.1 The refrigerant circuit shall include an accumulator, plural electronic expansion valves, one or two oil separators, a receiver and liquid and gas shutoff valves. Filter drier and crankcase heaters shall be furnished.
 - c.2 The outdoor unit shall have one of scroll type or two of reciprocating or scroll compressors. The indoor unit shall be equipped with an electronic control valve to control refrigerant flow individually.
- d. Safety Devices

The following safety devices shall be part of the outdoor unit; high pressure switch, fused crankcase heater, fusible plug, thermal protectors for compressor and fan motor, over current protection for inverter, short recycling protection timer.
- e. Oil Recovery System

Unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping.
- f. Oil Equalizer System

The outdoor unit with 2 compressors shall be equipped with an oil equalizer system to avoid unbalance between 2 compressors.
- g. Controls
 - g.1 Outdoor unit shall have a minimum of 12 capacity steps to meet load fluctuation and indoor unit individual control in case of inverter series.
 - g.2 Computerized Proportional-Integral-Derivative (PID) control shall be used to maintain a correct room temperature.

- g.3 Unit shall be equipped with a self-diagnosis circuit for easy maintenance and service.
 - g.4 The indoor unit shall be operated individually and each having a remote controller with an ON/OFF switch, a fan speed selector, a timer, a thermostat setting button and LCD which indicates temperature setting, operation mode, malfunction code and filter cleaning timing, etc.
 - g.5 The remote controller shall store the latest malfunction code for easy maintenance.
 - g.6 Up to 16 indoor units can be controlled by one remote controller in case of group control operation.
- h. Related Accessories
- h.1 The following accessories shall be provided:
 - Piping branches and headers with insulation for quick work and smooth refrigerant flow;
 - Remote control devices for operation and monitoring of indoor unit from remote;
 - Multi-function centralized controller.
 - h.2 The monitoring function shall be capable of indicating operation and trouble signals of the indoor and outdoor unit to the remote.
 - h.3 Outdoor unit shall be provided with anti-corrosion treatment.

At the end of the design stage, the Contractor is expected to come up with the design construction plans, as enumerated in Clause XI – Submittals in these specifications.

The work also includes testing, adjustments, balancing and commissioning of systems installed.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

5.9 Electrical and IT Works

The Contractor shall design for the electrical and power supply system of the building in accordance with the Philippine Electrical Code, Philippine Mechanical Code, Fire Code of the Philippines, International Life Safety Code (NFPA 101), National Electrical Code (NFPA 70), National Building Code of the Philippines and other relevant codes, laws and ordinances.

The Contractor shall supply and install complete lighting system including all lighting fixtures, conduits, fittings, wires and wiring devices as well as grounding system and lightning arrester. The use of energy efficient lights is mandatory. The Contractor shall likewise furnish and install complete power system including all feeders, branch, circuits, wires and wiring devices. The Contractor shall supply and furnish all materials brand new and of superior quality. All wires must be sized to accommodate peak loads and future installation of additional electric-powered equipment and machineries.

The Contractor shall likewise supply and install local area network (LAN) wiring and structured cabling and other accessories suited for fiber optic connection for automatic link between main and satellite offices. All tables and cubicles shall have ready- provision for voice and data system. The Contractor shall coordinate with the PLAWD personnel and its voice and data service providers for the configuration of the communications system. The Contractor shall supply and furnish all materials brand new and of superior quality. All wirings and accessories must be properly sized suited for the operation of PLAWD.

The Contractor shall supply and install of (1) Public Address System, (2) Multi-Media Conference System at the board room, (3) Audio System at the Meeting Room, (4) Biometric Attendance System, and (5) Queuing System, including all wiring and wiring devices and other accessories necessary for its function and operation. The Contractor shall supply and furnish all materials brand new and of superior quality.

In general, electrical and IT works shall consist of the following:

1. Electrical layout plan showing system of wiring, source, distribution, riser diagrams, panel boxes, and switches, and all other pertinent material as required by approving agencies.
2. A stand-by Generator Set, equipped with Automatic Transfer Switch (ATS), shall be provided as alternative power source to supply the entire building during power interruptions. Gen-set room shall be strategically located and designed as part of the site development.
3. Power provision shall be provided by the Contractor; however, the demand load, power supply and distribution line shall be coordinated by the Contractor with the local utility provider, assisted by the Owner. Application for new power meter and load deposit fee for the power transformer shall be facilitated and borne by the Owner but the required documentary requirements such as load computation, electrical plans and diagrams shall be provided by the Contractor. Power house/mechanical room with transformer pad shall be strategically located and designed as part of the site development.

Electrical wirings and accessories shall be:

- i. Service Entrance – All wirings shall be THHN, IMC conduit, UL listed or approved equal.
 - ii. Interior Wiring – All wirings shall be THHN, 3.5mm² minimum size in PVC, sch. 40 conduit.
 - iii. Devices – All switches and receptacle shall be flush mounted type, 15 ampere, grounding type for convenience outlet.
 - iv. Lighting Fixtures – Use power-saving type fixture or LED lighting fixtures.
 - v. Circuit Breaker – Bolt-on type, 10 kaic minimum.
 - vi. Panel Board – Ga. 16 GI sheet powder coated finish.
4. Security Monitoring System
 - i. CCTV – Shall provide the necessary devices including wiring, accessories and equipment.
 - ii. Video Server – Shall be provided at the data center/server room.

- iii. Camera – Shall be provided and strategically located at all public areas such as entrance, exit, hallways, corridors, elevator, driveways, lobby, parking, loading/unloading area, tellers and frontlines.
- iv. Monitor – Shall provide at least 40-inch television with Cable TV (CATV) provision to be located at the following areas:
 - (1) Data Center/Server room;
 - (2) General Manager's Lounge;
 - (3) Ground Floor Main Lobby.

5. Fire Detection and Alarm System

- i. Every room and office shall be provided with smoke detector with 6.5 meter radius coverage or as specified in the Fire Code of the Philippines.
- ii. Every exit door and stairs shall be provided with Manual Pull Station and Bell/Siren.
- iii. Fire Alarm Control Panel (FACP) for the building shall be located at the ground floor near the receiving or information area.

6. Telephone

- i. Service Entrance Provision – Shall be provided by the local utility provider.
- ii. Location of Service Entrance – Shall coordinate up to the Main Distribution Frame (MDF) of the building.
- iii. Provide 1-50mm diameter PVC conduit spare for future expansion.
- iv. Main Distribution Frame (MDF) – Size shall be size up to 30% spare provision for future expansion, use Ga. 16 GI sheet in powder coated finish.
- v. Telephone Terminal Connection (TTC) – Shall be provided for every floor level.
- vi. Telephone system design shall suit the PLAWD operations with easy and quick communication links between main and satellite offices.

7. Data

- i. Main Tapping Hub – Shall be provided inside the IT/EDP room or electrical room.
- ii. Local Area Network (LAN) – Shall be provided including LAN wiring using fiber optic cabling and provisions for LAN expansion and development.
- iii. Every room and office shall be provided with data point, size and type shall correspond to the need of every office.
- iv. Shall be compliant to the requirement of establishing Data Center.
- v. Design shall be coordinated with the Owner's IT personnel and the Owner's intranet/internet service provider.

8. Structured Cabling

The Contractor shall supply and set up full cabling infrastructure to support data and voice points. The Owner reserves the right to revise the number of data and voice points required during the actual implementation. The Contractor is required to propose a solution to implement cabling system with the Structured Cabling System which include the following sub-systems:

- Work Area Sub-System
- Horizontal Sub-System
- Backbone Sub-System
- Telecommunication Room/Equipment Room/Entrance Facilities Racking Sub-System
- Telecommunication Room/Equipment Room/Entrance Facilities Fiber Pathway Sub-System.

The Structured Cabling System shall comply to the ANSI/EIA/TIA-568-B.2-1 Class E performance requirements, including ‘Component Compliance’ and ‘Channel Compliance’. Independent channel test reports must be produced for the system that is to be installed for both the channel and verification that the individual components are compliant.

International standards may be referenced where local standards do not provide adequate information for detailed administration scheme’s and support of BAS (Building Automation System) cabling systems. These include but are not limited:

- ISO 11801 - Specification of Structured Cabling for use within commercial premises
- ANSI/TIA/EIA-606-A - Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
- ANSI/TIA/EIA-568-B.2-1 - Commercial Building Telecommunications Cabling Standard
- ANSI/TIA/EIA-607 “Commercial Building Grounding /Bonding Requirements”.
- TIA-942 – Telecommunications Infrastructure Standard for Data Centers
- ANSI/NFPA 70 National Electrical Code, CSA C22.1
- ANSI/EIA/TIA 492AAAC (OM3)
- BICSI Telecommunications Distribution Methods Manuals
- SSCP5-2000 (Singapore)
- Any local mandatory regulations

8.1 System Technical Requirements

The complete Structured Cabling System to be installed for this project shall be suitable to support analog and digital voice applications, data, local area networks (LAN), video and low voltage devices for building controls and management on a common cabling platform. The systems to be supported include, but are not limited to:

Telecommunications

- (a) Telephone
- (b) Facsimile
- (c) Telecom leased lines, including data services (DDS)
- (d) ISDN services, up to 2.048 Mbps
- (e) Exchange line services for PABX

Data Networks

- (a) IEEE RS - 232-D, RS - 422, RS - 485
- (b) IEEE 802.3 10Base-T
- (c) IEEE 802.3 10Base-FL
- (d) IEEE 802.3 100Base-TX
- (e) IEEE 802.3 100Base-FX
- (f) IEEE 802.3 1000Base-T
- (g) IEEE 802.3 1000Base-TX
- (h) IEEE 802.3 1000Base-SX
- (i) IEEE 802.3 1000Base-LX
- (j) IEEE 802.AE-10Gbase-SR
- (k) IEEE 802.3 10Gbase-T
- (l) ATM
- (m) FDDI
- (n) TP-PMD
- (o) DTE Power Compliance to IEC 60603-7-7 section 6.4.4, IEC 60603-7-7section 6.4.4, IEC 60603-7-7section 6.4.2, IEC 60603-7-7

8.2 Work Area Sub-System

8.2.1 At each work area location the Contractor shall install two (2) RJ45 to RJ45 'Data' work area station patch cord into the telecommunication outlet (TO) designated as the 'Data' service. The exact configuration of which TO will be designated as the data outlet shall be confirmed with the Client prior to installation.

8.3 Horizontal Sub-System

8.3.1 All installed cables must be fixed and supported in an appropriate manner to a surface. No loose or trailing cables shall be permitted. Cable trays shall be used whenever possible in raised floor voids, trunking must be used on walls.

8.3.2 Horizontal Cabling provides connections from the Floor Distributor (FD) to the Telecommunications Outlets (TO's) in the Work Area. It consists of the horizontal transmission media, the associated connecting hardware terminating this media and TO's in the Work Area. Each floor of a building will be served by its own Telecommunications Room unless otherwise specified.

8.4 Backbone Sub-System

The main cable route within a building and between buildings is called the Building Backbone system. It is the Building Distributor (BD) to the Floor Distributors (FD's). It consists of the backbone transmission media between these locations and the associated connecting hardware terminating this transmission media. It is installed in a star topology.

The Building Backbone Subsystem shall include vertical/horizontal runs of in-building cable between the BD and the FD's of the building.

8.5 Telecommunication Room / Equipment Room / Entrance Facilities Racking Sub-System

8.5.1 Open Rack

- 1) The Contractor must provide Patch Runner open rack with complete cable management and accessories for telecommunication room, equipment room or entrance facilities in the building.
- 2) The open rack shall be 2-post or 4-post, 45U 19” wide with complete cable management and accessories.

8.5.2 Network Switch Cabinet

- 1) The Contractor must provide Net-Access switch cabinet with complete cable management and accessories for telecommunication room, equipment room or entrance facilities in the building.
- 2) The cabinets shall be 800mm x 1044mm, 45U 19” wide with complete cable management and accessories.

8.5.3 Server Cabinet

- 1) The Contractor must provide Net-Serv server cabinet with complete cable management and accessories for telecommunication room, equipment room or entrance facilities in the building.
- 2) The cabinets shall be 600mm x 1200mm or 700mm x 1200mm, 42U or 45U 19” wide with complete cable management and accessories.
- 3) 24-port modular patch panel must be used for copper application.
- 4) Fiber mount tray or drawer with 2x 6-port duplex SC OM3 fiber adapter panel must be used for fiber application.
- 5) The type, make and model of the cabinet shall meet the following specification:

8.6 Administration System.

The Administration system consists of labelling hardware for providing circuit identification and patch cords and/or jumper wire used for creating circuit connections at the cross connects. The combined length of all patch cords, jumper wires and equipment cords shall not exceed 10m.

The type of patch cords to be used shall be of the same category of performance as the cable and connectivity components and of the same manufacturer so the individual components form a end to end warrantable solution.

8.7 Identification System

8.7.1 Horizontal Cabling

8.7.2 Telecommunications Outlets

8.7.3 Patch Cords

8.7.4 Server and Network Equipment Cabinets

8.8 Cable Testing Requirements.

All cable plant installed by the Contractor shall be fully tested as detailed below. All test results shall be reported using the Permanent link model to the requirements of ISO 11801 and ANSI/TIA/EIA-568B.2-1 for the Category 6 cabling system installed. As a minimum requirement, the following parameters shall be tested and recorded:

8.8.1 Data Grade Links (100% of cables) with a FLUKE DTX Cable Analyzer Level III Approved Tester

- 1) Length in meters
- 2) Wire map
- 3) Insertion loss (attenuation)
- 4) Attenuation to cross talk ratio (ACR)
- 5) PowerSum attenuation to cross talk ratio (PSACR)
- 6) Pair-to-Pair Near End Cross Talk level (NEXT)
- 7) PowerSum Near End Cross Talk level (PSNEXT)
- 8) Pair-to-Pair Equal Level Far End Cross Talk level (ELFEXT)
- 9) PowerSum Equal Level Far End Cross Talk level (PSELFEXT)
- 10) Return loss
- 11) Propagation delay
- 12) Delay skew
- 13) Date of test

8.8.2 Voice Grade links (100% of pairs)

- 1) Pair continuity/rotation
- 2) Date of test

5.10 Plumbing and Sanitary Works

The design of the water distribution system and facilities, sewer and waste disposal system and storm drainage system, among others, shall conform to the following codes and standards:

1. Revised National Plumbing Code of the Philippines
2. Uniform Plumbing Code
3. Sanitation Code of the Philippines
4. Uniform Building Code
5. American Society of Plumbing Engineers Handbook
6. American Society of Sanitary Engineers Handbook
7. ASHRAE Handbook

All design considerations/assumptions shall be based on the technical and detailed analysis and design computations.

The Contractor shall supply and install complete plumbing and sanitary systems including fixtures, fittings, and appurtenances and piping system, among others. The use of low-flow fixtures is hereby recommended. Complete installation shall mean not only the major equipment and apparatus conveyed in these specifications, but all the incidental sundry components necessary for the complete execution of the works and for the proper operation of the installation, whether or not these supply components are not mentioned in detail in these specifications.

The Contractor shall supply and furnish all materials brand new and of superior quality. All fixtures must be sized according to use and its projected number of users.

The technical drawings and specifications shall clearly indicate all the details required to ascertain the care and thoroughness devoted in the preparation of the drawing.

A. Design criteria

1. Sanitary Drainage and Sewerage

- 1.1 Sanitary waste generated shall be drained by gravity to the existing sewer line at ground level.
- 1.2 Drainage and sewerage shall be underground and covered type system.
- 1.3 The drainage layout shall show all the required information such as direction of flow, manhole-to-manhole distances, and sizes of lines, invert elevation of manholes/catch basins/canals, location of outfalls, grits, grease traps, etc.
- 1.4 Sewerage system shall be provided and designed at appropriate size to manage sanitary wastes.
- 1.5 Sewer line shall be connected to the sewerage system before discharging to the nearest city drainage system.
- 1.6 All sewer and waste lines shall be declog and leak tested.
- 1.7 All fixtures shall be individually vented.
- 1.8 Cleanouts shall not exceed 15m apart for straight horizontal run sewer line.

2. Storm Drainage System

- 2.1 Storm drainage shall be designed for an average rainfall intensity of 12 inches per hour, 15 minute duration, based on 10-year precipitation curve.
- 2.2 Minimum slope for pipes shall not be lesser than ½%.
- 2.3 Storm drainage shall be by gravity collection system.
- 2.4 Roofs, decks, ledges and areas exposed to weather shall be provided with the appropriate type of drains and be connected into the downspouts or leaders for disposal at the grade level into the rain catcher system.
- 2.5 Storm drainage system for floors above grade level shall be drained by gravity to the drainage line at ground level.
- 2.6 Drainage shall be provided for machine rooms, air handling unit (AHU) rooms, pump room, genset room, transformer pad, aircon units and other utilities where needed.
- 2.7 All stainless inside gutter/roof drain shall be provided with strainer.
- 2.8 Final disposal point shall be into the drainage line at ground level.

3. Cold Water Distribution System

- 3.1 Metering – main water meter for the building.
- 3.2 Hose bibb shall be provided for the machine rooms, genset rooms, pump rooms, parking areas, and other utility rooms which requires water supply.
- 3.3 Group fixtures shall be provided with isolation valve (IV) per toilet area supplied. Irrigation supply stub-outs or hose bibb shall be provided on all planter’s areas.
- 3.4 Water tank shall be clean, disinfected, and leak-tested.
- 3.5 Booster pump and pressure tank, if any, shall be provided to meet the required minimum pressure.
- 3.6 Pressure reducing valve shall be provided on floors where pressure exceeds 80 psi.
- 3.7 Operating pressures of toilet/bathroom fixtures shall be considered.
- 3.8 Occupant water demand as per code requirement.

4. Water Supply and Distribution System

- 4.1 The design shall be on the basis of the source and volume of water supply, water consumption, piping network, and conveyance in accordance with the applicable laws, rules and regulations governing health, safety and sanitation.
- 4.2 Potable water supply will be sourced out from the existing water mains in the area.
- 4.3 Water storage tank/cistern shall be designed to accommodate fire and domestic uses where the number and size shall be supported with design computations.

B. Material Specification Guideline

1. Sewer and Vent System

- 1.1 Sewer Lines – Lateral pipes shall be Polyvinyl Chloride (PVC) Pipes and Fittings, series 1000, locally manufactured.
- 1.2 Kitchen Waste Lines – Hubless cast iron pipes and fittings, imported, locally available.
- 1.3 Vent Lines - Polyvinyl Chloride (PVC) Pipes and Fittings, series 1000, locally manufactured.
- 1.4 Branch Vent - Polyvinyl Chloride (PVC) Pipes and Fittings, series 1000, locally manufactured.

2. Storm Drainage System

- 2.1 Roof Drains – Dome type strainer with C.I. body, locally manufactured.
- 2.2 Floor Drains – Square type with C.I. body, locally manufactured.
- 2.3 Downspouts – Polyvinyl Chloride (PVC) Pipes and Fittings, series 1000, locally manufactured.
- 2.4 Collectors – Polyvinyl Chloride (PVC) Pipes and Fittings, series 1000, locally manufactured.

3. Water Distribution System

- 3.1 Cold Water Lines (potable & non-potable) – For risers and down-feeds:
Galvanized Iron (G.I.) pipes and fittings, imported, locally available. For roughing-in of toilets: Polypropylene (PPr) pipes and fittings, imported, locally available.
- 3.2 Fire Line – Shall be Galvanized Iron (G.I.) pipe, sch. 40, locally manufactured; fittings shall be malleable steel, imported, locally available.

4. Plumbing Fixtures

- 4.1 Water Closet – flush valve or tank type, siphon jet, floor or wall outlets, floor mounted, locally available. Consider sensor type fixture.
- 4.2 Lavatory – counter-top or wall-hung or under-the-counter model, locally available. Consider sensor type fixture.
- 4.3 Urinal – flush valve, locally available. Consider sensor type fixture.
- 4.4 Kitchen sink – locally available.
- 4.5 Utility sink – locally available.

At the end of the design stage, the Contractor is expected to come up with the design construction plans, at a suitable scale.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

5.11 Fire Protection and Suppression Systems

The fire prevention requirements, automatic fire sprinkler, fire hydrants and fire hoses shall be provided on locations as specified in the codes, standards and local building laws, as applicable.

The work shall consider the design of fire hose cabinets, wet and dry stand pipe system, provision of fire hose cabinets and wet and dry stand pipe system, and design/layout of automatic fire sprinkler system. Fire suppression system shall be the addressable type.

A. Codes and Standards

- a. ASHRAE Handbook
- b. NFPA 101 – Life Safety Code
- c. NFPA 10 – Portable Fire Extinguishers
- d. NFPA 14 – Standard for the Installation of Standpipe and Hose System

B. Design Criteria

- a. Portable Fire Extinguishers – shall be strategically located and shall conform to NFPA 10 with maximum travel distance equal to 75 ft.
- b. For the hydraulic analysis, hose allowance shall be 2-50GPM.
- c. Drain line for the system shall be provided with individual remotest test connection for each zone served.
- d. Special extinguishing system shall be provided on areas where expensive/or electronic equipment are stored.
- e. Generator room to be provided with portable fire extinguishers.
- f. Electrical room to be provided with portable fire extinguishers, CO2 or FE-36 type.
- g. Transformer vault/pad shall be provided with 100lbs. wheeled type CO2 or FE-36 type fire extinguishers.
- h. Fire Hose and Wet & Dry Stand Pipe
 - i. The fire hose cabinet shall be installed for the purpose of extinguishing of fire in its incipient stage. Standpipe system shall be meeting Class II requirement.

- ii. The fire hose cabinet shall be located at prominent and accessible position of each floor and the place shall be near exits in corridor.
- iii. The number of fire hose cabinet in each section of the building is within 30 ft. (9.20m) of a nozzle attached to not more than 100 ft. (30.50m) hose.
- iv. The hose cabinets shall be made of sheet steel and consist of hose valve, discharge nozzle and hose for easy handling. The label of “HYDRANT” shall be affixed to the front of cabinets.
- v. Each discharge nozzle shall discharge water at more than 50GPM (189.40 L/min).
- vi. Hose length shall be 1-1/2”Ø x 100 ft. (40mmØ x 30m) hose.
- vii. The pump shall start automatically.
- viii. The wet and dry stand pipe shall be located in non-combustible fire rated stair enclosures.
- ix. The capacity of fire hose valve in dry stand pipe system shall be more than 100GPM (379 L/min) and the discharge pressure shall not be less than 65 psi.
- i. The portable and mobile type fire extinguishers of required number and type shall be installed.
- j. The portable ABC powder type fire extinguishers shall be installed at the other areas (mechanical rooms, storage rooms).
- k. For flammable liquid, use Aqueous Film Foam System (AFFF) to prevent pre-ignition. Maximum travel distance is 75 ft.
- l. Use 1230 fire protection fluid fire suppression system for server room/data center.

C. Material Specification Guideline

- 1. Fire Hose Cabinet
 - 1.1 Cabinet – Gauge #18, M.I. Steel, locally manufactured.
 - 1.2 Hose – Imported, UL listed, rubber lined gasketed hose.
 - 1.3 Fog Nozzle – Imported, UL listed, combination fog/nozzle stream.
 - 1.4 Rack Pin – Locally manufactured.
- 2. Portable Fire Extinguisher – UL listed/FM approved, conforming to NFPA 10.
- 3. Signs – Locally manufactured, samples for approval.

D. Pump and Motor System

The Contractor shall design, supply and install fire suppression pumping and motor system that can accommodate the minimum requirements in the operation of the system. All fire pump, jockey pump, motor, sprinkler head, alarm assembly and alarm supervision system shall be UL listed and FM approved.

At the end of the design stage, the Contractor is expected to come up with the design construction plans as specified in this specification.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

5.12 Ancillary Structures and Works

The Contractor shall design, supply, install and construct the required ancillary structures and works such as parking area, perimeter fence and gate, perimeter lighting, pavement markings,

traffic and directional signs, guard house, comfort room and wash area, power house, drainage system and other utilities as required in the Space Distribution Matrix and elsewhere in these specifications, in accordance with the National Building Code of the Philippines, other governing codes and standards and to the satisfaction and approval by the Owner.

1. Parking Area and Access Road

Design grade and alignment of the parking area and access road shall be based on the recommended alignment and grade as indicated on the plans.

2. Drainage

Drainage is either closed channel or circular pipes. Drainage shall be sized to accommodate storm and waste water. Scope for drainage shall include the outfall to existing street drainage. Recommended minimum gradient for drainage shall be as prescribed by law.

Sanitary wastes from the laboratory shall pass through the sewerage system before discharging to the street drainage. Chemical wastes including heavy metals shall neither be discharged to the sewerage system nor to the street drainage. Proper chemical waste disposal procedure shall be observed and maintained by the Owner.

3. Maintenance Manholes and Catch Basins

At every change of alignment gradient or diameter, there shall be a manhole or inspection chamber. Manhole and catch basins shall be constructed so as to be watertight under test. Manholes should be spaced as prescribed in governing codes. In cases where installation of manhole is impractical within a certain distance, manhole shall be placed to the next nearest possible location.

As a minimum requirement, boxes shall be reinforced concrete hollow block construction.

Design of manhole cover including exposed top stiffeners shall be the type approved by the Owner and its finish top elevation shall coincide with the design grade of a paved road.

4. Perimeter Lighting

The use of LED perimeter lighting system is best recommended. The system shall be easily installed, requires low maintenance, and energy saving. The illumination produced by the lights shall be glare-free and highly targeted to provide optimal lighting for security guards and cameras.

5. Pavement Markings, Traffic and Directional Signs

Pavement markings, traffic and directional signs are essential for safe and efficient traffic movement to and from the building. The Contractor shall install regulatory, warning and guide signs for the transacting customers and employees. The signs shall be manufactured using the highest quality reflective products to ensure maximum visibility. The use of symbols rather than words signs may be used for ease of recognition and consistency. The markings and signs shall serve as providing guidance, identifying unsafe conditions, and informing of illegal maneuvers of vehicle inside the building premises.

6. Mechanical Area / Power House

Transformer room/pad shall be constructed outside the building but within the site. Pad size and design shall be based on the type of transformer to be mounted. Building construction and clearances from adjacent and nearby structures shall be compliant to governing codes and standards.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

5.13 Environmental Safeguards

Environmental Safeguard Activities

The Contractor shall (a) undertake Environmental Impact Assessment (EIA) process and prepare an Environmental Impact Statement (EIS) Report or Environmental Performance Report and Management Plan (EPRMP) to secure the proponent’s Environmental Compliance Certificate (ECC); and (b) secure other related environmental permits and clearances. The EIS report shall also meet the requirements of the ADB’s safeguard policy statement (SPS 2009).

Key Project Tasks

A. Preparation of EIA to secure ECC

The key tasks for the preparation of the Environmental Impact Statement (EIS) Report or Environmental Performance Report and Management Plan (EPRMP) include the following:

1. Assist the proponent in the Information, Education and Communication (IEC) Campaign and Perception Survey activities;
 2. Provide technical assistance during Project Briefing and Scoping Activities;
 3. Collect and review available secondary data which are relevant to the project;
 4. Conduct baseline characterization, impact assessment and other required studies to undertake an EIA Study;
 5. Evaluate the environmental and social issues associated with direct and indirect impacts of the proposed project during pre-construction, construction and operation phases;
 6. Prepare an EIS for submission, review for the issuance of the ECC by the Department of Environment and Natural Resources – Environmental Management Bureau (DENR-EMB); and
 7. Provide technical assistance to secure ECC
- B. Securing of other environmental permits and clearances. The key tasks for the acquisition of other environmental permits and clearances shall include, among others, the water permit and permit to operate (PTO) of the generator sets.

Detailed Tasks for the Preparation of EIA

The Contractor shall undertake the EIA Study to secure the ECC and shall be in accordance with the following guidelines set-forth by the DENR:

1. DAO 2003-30 (Revised Procedural Manual);

2. EMB MC 2014-005 (Revised Guidelines for Coverage Screening and Standardized Requirements);
3. DAO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016); and
4. DAO 2017-15 (Guidelines on Public Participation under the Philippine Environmental Impact Statement System)

Further, the EIA Study shall be done with emphasis on the following key features: i) Project Description, ii) Description of the Environment and Social Background, iii) Evaluation of Potential Impacts, iv) evaluation of the environmental performance (in the case of EPRMP), v) Consultation and Participation, and vi) Environmental and Social Management Plans.

a. Technical Assistance during Project Briefing and Scoping Activities

The Contractor shall provide technical assistance in the conduct of the Project Briefing and Technical Scoping Meeting with DENR-EMB and members of the EIA Review Committee. The Consultant shall facilitate the coordination works for the smooth conduct of both public and technical scoping meetings.

b. Technical Assistance for the Social Preparation Work

The Contractor shall provide technical assistance for the Social Preparation Activities led by Water District in compliance with the DAO 2017-15. The DENR-EMB may require the following social preparatory activities:

1. Key Informant Interview (KII);
2. Focus Group Discussion (FGD) to the traditional and political leaders of the affected areas
3. Informal dialogues with community members or community meetings;
4. Use of appropriate IEC materials such as film or video showing, printed media or local radio. Other forms of information dissemination that can be used include streamers, exhibits and leaflets/flyers; and
5. Perception Survey.

c. Data Collection

Secondary Data

The Contractor shall collect and review available secondary data which are relevant to the project. These will include, but are not limited to socio-economic profile of affected communities, geological, meteorological and hydrological data, and all other project-related information. Secondary data will be collected from relevant government agencies and offices, local government units, academe, private entities and Water District.

Primary Data

The Contractor shall collect primary data based on the EIA requirements of EMB. Primary data surveys for this EIA Study will be conducted for the following areas of study:

1. Geology and pedology;
2. Hydrology and hydrogeology;

3. Water quality;
4. Freshwater ecology;
5. Air quality and noise;
6. Socio-economics; and
7. Risk assessment.

Further, in the case where there is an existing ECC and the amendment of such would require an EPRMP, reporting and assessment of the environmental performance based on the existing ECC condition is required.

d. Environmental Baseline Characterization and Impact Assessment

The Contractor shall conduct the environmental baseline characterization and impact assessment for the proposed project using the Environmental Impact Statement outline provided in DAO 2003-30 Implementing Rules and Regulations of Presidential Decree No. 1586, establishing the Philippine EIS System as a primary reference.

All baseline surveys shall follow scientific protocol and acceptable procedures.

e. EIS or EPRMP Preparation

The EIS/EPRMP for the proposed project shall be prepared using the DAO 2003-30 guidelines (including subsequent memorandum circulars) and the ADB safeguard policy statement (SPS 2009) as a primary references. The preparation of the EIS/EPRMP shall involve, but not limited to the following tasks:

1. Preparation of the project description;
2. Characterization of the proposed project site;
3. Identification of potential impacts of the project;
4. Formulation of mitigating and enhancement measures to address the identified potential impacts;
5. Environmental Performance
6. Conduct of an Environmental Risk Assessment; and
7. Formulation of Environmental Management Plan and Environmental Monitoring Plan.
8. Technical Assistance to Secure ECC

The Contractor shall provide technical assistance to WD during the public scoping and consultation stages of the EIA process by coordination and presenting the findings of the EIA Study to project stakeholders, the EIARC and EMB. After the public consultation, the Contractor shall submit the draft EIS to EMB for procedural and substantial review and will provide technical assistance to WD during the review of the EIS. The Contractor shall also attend meetings with EMB and the EIARC, will address their requests for additional information (if any) and will continue to liaise with EMB until the ECC is issued.

Detailed Tasks for the other Environmental Permit and Clearances

Upon the issuance of the ECC, the Contractor shall assist the proponent in securing Water Permit from the NWRB. Further, due to the presence of generator set, the Contractor shall assist the proponent in securing Permit to Operate (PTO) from DENR.

5.14 Reference Documents

DISCLAIMER: The Employer provides the following reference documents associated with the Works to facilitate Bid preparation and submission and for work- strategy purposes. However, it must be understood that these documents are provided without warranties or responsibility and the Employer will not be liable for any missing information. The Contractor shall review and confirm all information and shall be responsible for all interpretations and conclusions drawn.

- (a) **Conceptual Design:** PLARIDEL Water District Office Building Conceptual Design. This provides background information on the proposed works and set of preliminary design. It does not present a detailed engineering design that is to be prepared by the Contractor for the works.
- (b) Environmental Assessment and Review Framework – Annex 1
- (c) Gender Analysis of Water and Sanitation Projects – Annex 2
- (d) Due Diligence Report for Resettlement – Annex 3
- (e) Construction Guidelines for Project Implementation during the period of Public Health Emergency – Annex 4

5.15 Permits

The Contractor shall process and secure all the necessary permits as required by authorities for the preparation, execution and upon completion of the contract. The Contractor shall coordinate with other government/private agencies and pay all fees incidental to the acquisition of the required permits.

Such documents include construction permits but not necessarily limited to the following documents:

1. Building Permit
2. Appropriate Certificate from DENR
3. Occupational Safety and Health Program
4. Excavation Permit
5. Fencing Permit
6. Fire Clearance Certificate
7. Occupancy Permit

Owner-furnished documents that will form part of the requirements in securing such permits have been consolidated and will be endorsed to the Contractor such as certified true copy of Transfer Certificate of Titles (TCT's), Sketch Plan (signed by a geodetic engineer), and Zoning Certification (for DENR Certification).

5.16 Construction Works

Buildings proposed for construction shall comply with all the regulations and specifications herein set forth governing quality, characteristics and properties of materials, methods of design and construction, type of occupancy and classification. All other matters relative to the design and construction of the building and other structures not provided for in these specifications shall conform to the provisions of the Fire Code of the Philippines and National Structural Code of the Philippines, as adopted and promulgated by the Board of Civil Engineering pursuant to Republic Act Number 544, as amended, otherwise known as the "Civil Engineering Law".

The Contractor shall perform the construction activities, but not limited to, the following:

A. Mobilization/Demobilization

The Contractor shall mobilize and bring out into work, all personnel, plant and equipment, in accordance with his approved construction program, equipment moving and utilization schedule and manpower schedule, from its regular place of business to the site to undertake the contract.

Mobilization shall include the obtaining and transporting to jobsite of equipment, materials, tools, personnel, constructional plant and all necessary items for the execution and completion of the work and shall also include the setting up and the verification of all equipment, instrument and all other plant until it is rendered operable. It shall also include sufficient supply of spare parts for the construction plant. Breakdowns are to be repaired on site by the most expeditious method possible at no cost to the Owner. In the event repairs being beyond the personnel or tools at the site to effect repairs in a reasonable time, such that the construction plant has to be removed from the site, then a replacement of machine or plant or equipment of a similar capacity shall be provided by the contractor at no additional mobilization costs to the Owner nor extension of completion of works.

Construction equipment once moved into the project site checked and accounted for by the Owner shall not be permitted, prior to the completion of the contract, to be moved out or transferred by the Contractor to another project site without the written approval of the Owner. Periodic check-up of the Contractor's equipment moved-in for the contract shall be conducted by the Owner. The Contractor will pay to the Owner the amount equivalent to the rental rates of any equipment not accounted for during check-up for the number of calendar-days the equipment have been removed (without the written consent of the Owner) from the project site until the said equipment have been returned. Such cases are grounds for disapproval of claims for time extensions of the Contractor.

Demobilization shall include dismantlement and removal from the site of Contractor's plant, materials and equipment and all temporary facilities. Demobilization shall also include clean-up of the site after completion of the contract as approved by the Project Manager and transportation from the site of Contractor's personnel.

B. Demolition and Relocation of Affected Structures

Demolition works shall include complete removal of materials and debris of existing covered pump house, storage room including all files and stored materials & fittings, furniture, hardware, accessories, machineries, plumbing, electrical, mechanical equipment and other paraphernalia affected by the demolition.

Demolition of salvageable materials shall be taken with extra care and protection for future use. Protection of existing structures/facilities left functional shall be taken into account by the Contractor.

The Contractor shall prepare a Demolition Plan and Schedule of Disposal of all the affected areas subject to the approval of the Owner which includes an inventory of salvageable materials, hardware, and furnishings. Joint inventory of such items shall be conducted by the Contractor and

the Owner and the same shall be turned-over to the Owner and hauled by the Contractor to a place designated by the Owner.

Considering that the existing pump house is still in use, demolition of such shall be done only partially or as required and well-coordinated to the Owner.

C. Site Clearing & Proper Waste Disposal

General site clearing operations include removal of demolished materials and trees, protection of existing structures/facilities left functional, and clearing to allow for new construction. Provide barricades, coverings, or other types of protection necessary to prevent damage to existing structures/facilities not indicated to be removed.

Clearing work shall be restricted to area within rights-of-way or easement or within construction limits as indicated on the drawings. The work includes cleaning up of debris resulting from site clearing operations continuously with the progress of the work. Remove debris from site in such manner as to prevent spillage. Keep pavement and area adjacent to site clean and free from mud, dirt and debris at all times. Remove all waste material from site.

Dispose of materials, waste including toxic materials, trash and debris in a safe, acceptable manner in accordance with applicable laws and ordinances. Burying and burning of trash and debris at the site will not be permitted. Remove trash and debris from the site at frequent intervals so its presence will not delay the progress of the work or cause hazardous conditions to workers and the public.

Removed materials and debris that can be reused or recycled shall be disposed of properly to a site designated by the Owner. However, waste and trash that could no longer be reused or recycled shall be removed from the PLAWD property and disposed of in a legal manner to a site preferred by the Contractor and agreed by the Owner. Location of the former's disposal site and length of haul shall be for the Contractor's responsibility.

D. Site works

D.1 Excavation, Footings and Foundations

Subject to the provisions of Articles 684 to 686 of the Civil Code of the Philippines on lateral and subjacent support, the design and quality of materials used structurally in excavation, footings, and in foundations shall conform to accepted engineering practices.

Footings and foundations shall be of the appropriate type, of adequate size, and capacity in order to safely sustain the superimposed loads under seismic or any condition of external forces that may affect the stability of the structure. The Contractor shall employ construction methodology that is of minimal impact to its immediate environs during foundations works. Such methodology shall be approved by the Owner before commencing any foundation works.

D.2 Excavation and Fill

Excavation or fills for buildings or structures shall be so constructed or protected that they do not endanger life or property. Fills shall be in layers not exceeding 200 mm and compacted 95%. Whenever the depth of excavation for any construction is such that the lateral and subjacent

support of the adjoining property or existing structure thereon would be affected in a manner that the stability or safety of the same is endangered, the Contractor undertaking or causing the excavation to be undertaken shall be responsible for the expense of underpinning or extending the foundation or footings of the aforementioned property or structure.

Excavation and other similar disturbances made on public property shall unless otherwise excluded by the Building Official, be restored immediately by the Contractor to its former condition within 48 hours from the start of such excavation and disturbances.

E. Floor Construction

All floors shall be so framed and secured into the framework and supporting walls as to form an integral part of the whole building. The types of floor construction used shall provide means to keep the beam and girders from lateral buckling.

F. Roof Construction and Covering

All roof coverings shall be so framed steel trusses and tied into the framework and supporting walls so as to form an integral part of the whole structure. Thermal insulation material, as glass wool, to avoid excessive heating in dry season.

G. Furniture and Other Furnishings

The Contractor shall supply and install all fixtures and other furnishings required in these Employer's Requirement with the following minimum required specifications:

- 1) Executive Wall Cabinet
 - a. Cabinet shall be at least 2.20m high.
 - b. Wood frame on lamination finish.
 - c. Shall be a combination of closed book shelves and desk drawers.
 - d. Vacant wall panels for plaques and pictures are recommended.
 - e. Use executive type modern cabinet designs.
- 2) Counter-type Telling Cubicle with Chair
 - a. Telling counter station shall be at least 1.50m wide.
 - b. Paying desk shall be at least chest level of the paying customer.
 - c. The work surface table shall have center drawer and side drawers with various cash compartments.
 - d. Main desk counter shall be extended to the paying customer for at least 0.60m, with glass partitions.
 - e. The return work surface table shall be at least 0.90m with under table shelves.
 - f. Cubicle shall have built-in cabling raceways and outlets.
 - g. Operational high tellers chair shall be steel frames, high back, adjustable with arm and steel foot rest.
- 3) Miscellaneous Furniture to be provided by the contractor, but not limited to the following:
 - a. Counter-type working desk with chair for Frontline Personnel

- b. Overhead / Wall Cabinets
- c. Field Personnel Lockers
- d. Accordion Dividers
- e. Pantry Cabinets
- f. Meter Reading Equipment Rack

The Contractor warrants that the items supplied, delivered, furnished and installed shall be brand new, unused and of superior quality.

Likewise, the Contractor shall supply all construction materials, labor, tools, equipment and machineries necessary for the construction and commissioning of the building.

All furnishings required in the scope of work shall be to the satisfaction and approval by the Owner.

H. Other General Requirements

The Contractor shall carry out and complete all items of work within the scope of work in accordance with the approved plans and specifications.

1. Contractor’s Temporary Facilities

The Contractor shall provide and maintain field offices including all the necessary utilities such as electricity, water, drainage, security, safety requirements and other temporary works necessary for the successful completion of the work. The cost for all the utilities shall be borne by the Contractor.

The Contractor’s temporary facilities shall have sufficient area that will accommodate the offices for the Contractor and Owner’s representative, storage area, complete with toilet fixtures and interior finishes. Plans and details shall be approved by the Project Manager prior to installation and/or construction.

The Contractor’s temporary facilities shall include a stockpile area for bulky construction materials such as pre-cast panels, wire mesh, etc. The ground area shall be appropriately maintained, improved and leveled to provide mobility and easy access for identification and inspection of materials.

The facilities shall conform to the best standard for the required types and shall include office equipment, apparatus, pieces of furniture and other tools necessary for the prosecution of the work.

The Contractor shall provide all necessary safety tools, identifications, uniforms and equipment for the workers and his staff in accordance with the Safety Standard. The Contractor shall provide construction safety barricades along the perimeter of and/or within the project site. The type and material of these barricades shall be subject to the approval of the Project Manager.

The Contractor’s temporary facilities shall be dismantled and removed from the site after completion of the contract.

2. Field Office Equipment

The Contractor shall likewise provide field office equipment for Project Manager's use such as laptop, plotter, printer/scanner/copier, projector and screen, digital camera and external hard drive, subject for turn-over to the Owner at the end of the Contract. The cost of such equipment shall be borne by the Contractor. The required minimum specifications shall be as follows:

- (a) LAPTOP – 2 units
 - Processor: Intel® Core™ i7-4500U Processor (4M Cache, up to 1.80 GHz)
 - Memory: 8GB DDR3
 - Storage: 1TB
 - Screen: 15.6" diagonal HD Bright View LED-backlit Display (1366x768)
 - Graphics: 2GB GeForce GT 740M

- (b) 3-IN-1 PRINTER, COPIER, SCANNER – 1 unit photo papers and 1200 input dpi), Black: up to 600 x 1200 dpi
 - Display: 2.65" (6.75 cm) LCD with Touch Smart Frame
 - Processor Speed: 500 MHz
 - Print Cartridges: 4 (1 each black, cyan, magenta, yellow)
 - With Automatic paper sensor
 - Media Sizes Supported: A4, Letter, B5, Tabloid, A3

- (c) PROJECTOR & SCREEN – 1 unit
 - Projector Specifications:
 - Brightness (Normal): 3000 ANSI Lumens
 - Brightness (Eco): 2100 ANSI Lumens
 - Lamp Type: ETORL 200 W
 - Lamp Life: 5000 Hours

3. Engineering Support Services

The Contractor shall submit additional detailed plans and analysis as required, which are necessary for the faithful completion of the works.

4. Progress Reports

The Contractor shall prepare daily accomplishment report, supported with progress photographs and S-curves to monitor actual progress status report and to be used as basis for progress billing.

5.17 Post Construction Works Including Testing & Commissioning

This work includes the testing and commissioning of all mechanical, electrical, IT and plumbing/sanitary systems that have been installed to provide the Owner a high level of assurance that all equipment and machineries are installed in a prescribed manner.

Commissioning also includes construction observation, spot testing, verification and functional performance testing and providing performance and operating information to the Owner. Problems observed shall be addressed immediately by the Contractor. The Contractor shall submit a schedule for the commissioning process which is integrated in the construction schedule.

The Contractor shall furnish the Owner the Operation & Maintenance (O&M) Manuals of all equipment and machineries installed, incorporating the technical literature as designed and as actually installed, together with brochures and warranty certificates. The O&M information shall be system specific, concise, to the point and tailored specifically to the facility.

Water tank/cistern shall be designed and constructed leak free. As such, water tank/cistern shall be tested for hydrostatic and pressure leak test for 30 calendar days. Disinfection shall follow after passing the hydrostatic and pressure leak test in accordance with the standards of the Philippine National Standard for Drinking Water (PNSDW).

This work includes the testing and commissioning of all mechanical, electrical, IT and plumbing/sanitary systems that have been installed to provide the Owner a high level of assurance that all equipment and machineries are installed in a prescribed manner.

Commissioning also includes construction observation, spot testing, verification and functional performance testing and providing performance and operating information to the Owner. Problems observed shall be addressed immediately by the Contractor. The Contractor shall submit a schedule for the commissioning process which is integrated in the construction schedule.

The Contractor shall furnish the Owner the Operation & Maintenance (O&M) Manuals of all equipment and machineries installed, incorporating the technical literature as designed and as actually installed, together with brochures and warranty certificates. The O&M information shall be system specific, concise, to the point and tailored specifically to the facility.

Water tank/cistern shall be designed and constructed leak free. As such, water tank/cistern shall be tested for hydrostatic and pressure leak test for 30 calendar days. Disinfection shall follow after passing the hydrostatic and pressure leak test in accordance with the standards of the Philippine National Standard for Drinking Water (PNSDW).

6 PAYMENTS

Payments shall be in accordance with the Bidding Document.

7 GUARANTEE / WARRANTY

Any discovered defects either on material/s and/or construction method/s during the one (1) year Defects Liability Period/Warranty Period shall be repaired/replaced by the Contractor otherwise the WD may do the repair/replacement works or assign to other Contractor/Supplier. All repair/replacement expenses are chargeable to the Contractor.

8 APPROVED BUDGET FOR THE CONTRACT (ABC)

Approved Budget for the Contract (ABC):

Fifty-two Million Four Hundred Ninety-Eight Thousand Eight Hundred Ninety-Four Pesos (PhP52,498,894.00).

9 DESIGN AND CONSTRUCTION SCHEDULE

This “Design and Build” Scheme Project must be completed within ten months (10 months) from the issuance and effectivity of the formal Notice to Proceed (NTP). (One month = Thirty (30) days)

a. Design Phase (preparation of Detailed Engineering including presentation and approvals), and Permit Acquisition	60 cd
b. Construction Phase (including post construction evaluation, testing & commissioning)	240 cd
Total Project Duration	300 cd

10 MINIMUM REQUIREMENTS FOR A CONSTRUCTION SAFETY AND HEALTH PROGRAM

Every construction project shall have a suitable Construction Safety and Health Program, which must be in accordance with these rules, and other orders and issuances issued by the DOLE. The Construction-in-Charge, or an equally responsible officer, shall be responsible for compliance with this Section.

a. Construction Safety and Health Committee

(a.1) Composition:

- i. Construction-in-Charge or his representative as chairperson ex-officio
- ii. General Construction Safety and Health Officer
- iii. Construction Safety and Health Officers
- iv. Safety Representative/Officer
- v. Doctors, nurses and other health personnel pursuant to the requirements stated in Rule 1042 of the Occupational Safety and Health Services (OSHS)
- vi. Workers’ Representative

(a.2) Duties and Responsibilities:

- i. The Construction-in-Charge or his representative shall act as the Chairperson of the committee.
- ii. The committee shall conduct safety meetings at least once a month.
- iii. The persons constituting the Safety and Health Committee shall, as far as practicable, be at the construction site whenever construction work is being undertaken.
- iv. The committee shall continually plan and develop accident prevention programs.
- v. The committee shall review reports of inspection, accident investigation and monitor implementation of the safety program.
- vi. The committee shall provide necessary assistance to government authorities authorized to conduct inspection in the proper conduct of their activities.
- vii. The committee shall initiate and supervise safety trainings for its employees.
- viii. The committee shall conduct safety inspection at least once a month, and shall conduct investigation of work accidents and shall submit a regular report to DOLE.
- ix. The committee shall initiate and supervise the conduct of daily brief safety meetings or toolbox meetings.
- x. The committee shall prepare and submit to DOLE, reports on said committee meetings.

- xi. The committee shall develop a disaster contingency plan and organize such emergency service units as may be necessary to handle disaster situations.

b. General Safety within Construction Premises

(b.1) The provision for personal protective equipment, danger signs, barricades, and safety instructions for workers, employees, public, and visitors, such as, housekeeping, walkway surfaces, means of access, i.e. stairs, ramps, floor openings, elevated walkways, runways, platforms and light.

(b.2) Personal Protective Equipment

- i. The Contractor shall provide adequate and approved type of Protective equipment (hard hats, safety glasses with side- shields, rubber boots). Workers within the construction project site shall be required to wear the necessary Personal Protective Equipment (PPE) at all times.
- ii. Construction workers who are working from unguarded surfaced six (6) meters or more above grade, temporary or permanent floor platform, scaffold or where they are exposed to the possibility of falls hazardous to life or limb, must be provided with safety harnesses and life lines.
- iii. Specialty construction workers must be provided with special equipment, such as specialized goggles or respirators for welders and painters or paint applicators, and workers who worked in confined and enclosed spaces.
- iv. All other persons who are either authorized or allowed to be at the construction site shall wear appropriate PPE.

(b.3) Safety Personnel

- i. The Contractor shall provide for a full time officer, who shall be assigned as the general construction safety and health officer to oversee full time the overall management of the Construction Safety and Health Program.
- ii. The general construction safety and health officer shall frequently monitor and inspect any health and safety aspect of the construction work being undertaken. He shall also assist government inspectors in the conduct of safety and health inspection at any time whenever work is being performed or during the conduct of accident investigation.

(b.4) Emergency Occupational Health Personnel and Facilities

- i. The Contractor shall provide competent emergency health officer within the worksite duly complemented by adequate medical supplies, equipment and facilities. The services of a full-time registered nurse shall be required when the total number of workers exceeds 50 but not more than 200.
- ii. Where the Contractor provides only a treatment room, he shall provide for his workers in case of emergency, access to the nearest medical clinic or to a medical clinic located within 5 kilometer radius from the workplace and can be reached in 25 minutes of travel. Such access shall include the necessary transportation facilities. In such situation, there shall be a written contract with the medical clinic to attend to such workplace emergencies.

- iii. The engagement of an Emergency Health Provider for the construction project site shall be considered as having complied with the requirement of accessibility to the nearest hospital facilities.
- iv. The Contractor shall always have in the construction site the required minimum inventory of medicines, supplies and equipment.

(b.5) Construction Safety Signages and Barricades

- i. Construction Safety Signages shall be provided as a precaution and advisory to workers and the general public of the hazards existing in the worksite.
- ii. Signage Procedure – the signages shall be:
 - 1. Posted in prominent positions and at strategic locations.
 - 2. As far as practicable, be in the language understandable to most of the workers employed in the site.
 - 3. For non-raised floor areas, the attached yellow CAUTION sign shall be used when using yellow CAUTION tape.
 - 4. For non-raised floor areas, the attached red DANGER sign shall be used when using the red DANGER tape.
 - 5. Placed in designated areas at 1.2 meters from ground level, if there is no other more practicable height for placement.
 - 6. Regularly inspected and maintained in good condition to achieve its purpose.
 - 7. Signages that are damaged, illegible, those no longer apply as to purpose, site or language, shall be removed or be replaced by the safety officer when needed.
 - 8. Removed after the hazard is completely eliminated. If upon work completion the hazard is still present, the signage shall remain in place.
 - 9. Designed and constructed following the Overall Dimensions of Safety Signs Formula as required by the Occupational Safety and Health Services (OSHS).
 - 10. Specific with the type of hazard and should indicate the name of the contaminant/substance involved (for chemical hazards), and the type of PPE or respiratory equipment to be worn.

(b.6) Safety on Construction Heavy Equipment

In relation to heavy equipment operation in all construction sites, the following are required in the different phases of the project.

i. Pre-Construction

The Contractor must ensure that appropriate certification is obtained from DOLE duly accredited organizations for the following:

- 1. All heavy equipment operators assigned at the project site must be tested and certified in accordance with a standard test prescribed by Technical Education and Skills Development Authority (TESDA) in coordination with its accredited organizations.

2. All heavy equipment must be tested and certified in accordance with the standards prepared by DOLE or its recognized organizations prior to commissioning of said equipment.
- ii. During Construction to Post Construction

The Contractor must ensure that the following conditions are met or complied with:

1. Load restriction of trailers carrying such heavy equipment, the height and width clearances as imposed by the DPWH shall be observed.
2. Only duly certified operators are allowed to operate their designated heavy equipment and must wear personal protective equipment.

(b.7) Safety and Health Information

- i. Workers shall be adequately and suitably:
 1. Informed of potential safety and health hazards to which they may be exposed at their workplace.
 2. Instructed and trained on the measures available for the prevention, control and protection against those hazards.
- ii. Every worker shall receive instruction and training regarding general safety and health common to construction sites.
- iii. The instruction, training and information materials provided shall be given in a language or dialect understood by the worker.

(b.8) Construction Safety and Health Reports

- i. The Construction Safety and Health Report shall include:
 1. Monthly summary of all safety and health committee meetings
 2. Summary of all accident investigations /reports
 3. Corrective/Preventive measures/action for each hazard
 4. Periodic hazards assessment with corresponding remedial measures for new hazards
 5. Safety promotions and trainings conducted/attended
- ii. Submission of Reports:
 1. The Contractor shall be required to submit a monthly construction safety and health report to the Bureau of Working Conditions (BWC) copy furnished the DOLE Regional Office concerned.
 2. In case of any dangerous occurrence or major accident resulting in death or permanent total disability, the concerned Contractor shall notify the appropriate DOLE Regional Office within twenty-four (24) hours from occurrence.
 3. After the conduct of investigation by the concerned construction safety and health officer, the Contractor shall report all disabling injuries to the DOLE Regional Office on or before the 20th of the month following the date of occurrence of accident using the prescribed forms of the DOLE/BWC.

(b.9) Workers’ Welfare Facilities

- i. Adequate supply of safe drinking water:
- ii. Adequate sanitary and washing facilities
- iii. Violations and Penalties
 1. Pursuant to the provisions of D.O. 13 and as circumstances may warrant, the DOLE shall refer to the Philippine Contractors Accreditation Board (PCAB) its findings, after due process, on any act or omission committed by construction contractors in violation of this rule, labor standards, safety rules and regulations and other pertinent policies. Any such violation committed by construction contractors, whether general contractors or sub-contractors, shall constitute as prima facie case of a construction malperformance of grave consequence due to negligence, incompetence or malpractice contemplated under RA 4566 (Constructors’ Licensing Law), as amended, and its Implementing Rules and Regulations.
 2. In cases of imminent danger situations, the DOLE Regional Director shall issue a stoppage order pursuant to the provisions of Rule 1012.02 of the Occupational Safety and Health Services (OSHS) and other pertinent issuances for stoppage of operation or for other appropriate action to abate danger.
 3. Pending the issuance of the order, the Contractor shall take appropriate measures to protect his workers.
 4. The stoppage order shall remain in effect until the danger is removed or corrected permanently.
 5. Non-compliance with the order shall be penalized under existing provisions of labor laws.
 6. All processes and/or procedures in the conduct of General Labor Standards inspection including General Occupational Safety and Health/Technical Safety Inspection shall be governed by the provisions of Department Order No. 57-04 and its corresponding Manuals of Instructions.

11 HEALTH AND SAFETY

The Employer should highlight the requirement of a Site Specific Environmental Management Plan (SSEMP)/Contractor’s Environmental Management Plan (CEMP) under which the Site Specific Health and Safety Management Plan (SSHSMP) is attached. The SSHSMP is to be submitted to the Engineer and a confirmation of no objection of the SSHSMP should be obtained from the Engineer and the Employer prior to commence of site work.

12 SUPPLEMENTARY INFORMATION

- 12.1 Construction Guidelines for Project Implementation during the period of Public Health Emergency specific to COVID-19 prevention and controls, and worksite safety measures – Annex 4 of this Bidding Document

13 CERTIFICATES

A. Form of Completion Certificate

Contract: [. . . .insert name of contract and contract identification details. . . .]

Date:

Certificate No.:

To: [. . . .insert name and address of contractor. . . .]

Dear Ladies and/or Gentlemen,

Pursuant to GCC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated [. . . .insert date. . . .], relating to the [. . . .brief description of the Facilities], we hereby notify you that the following part(s) of the Facilities was (were) complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said part(s) of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

1. Description of the Facilities or part thereof: [. . . .description]
2. Date of Completion: [. . . .date]

However, you are required to complete the outstanding items listed in the attachment hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

[. . . .Signature]

Project Manager

B. Form of Operational Acceptance Certificate

Contract: [. . . .insert name of contract and contract identification details. . . .]

Date:

Certificate No.:

To: [. . . .insert name and address of contractor. . . .]

Pursuant to GCC Subclause 25.3 (Operational Acceptance) of the General Conditions of the Contract entered into between yourselves and the Employer dated [. . .date. . .], relating to the [. . .brief description of the facilities. . .], we hereby notify you that the Functional Guarantees of the following part(s) of the Facilities were satisfactorily attained on the date specified below.

1. Description of the Facilities or part thereof: [. . .description . . .]
2. Date of Operational Acceptance: [. . .date . . .]

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

[. . .Signature . . .]

Project Manager

14 CHANGE ORDERS

A. Change Order Procedure

a. General

This section provides samples of procedures and forms for implementing changes in the Facilities during the performance of the Contract in accordance with GCC Clause 39 (Change in the Facilities) of the General Conditions.

b. Change Order Log

The Contractor shall keep an up-to-date Change Order Log to show the current status of Requests for Change and Changes authorized or pending. Entries of the Changes in the Change Order Log shall be made to ensure that the log is up-to-date. The Contractor shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Employer.

c. References for Changes

- (1) Request for Change as referred to in GCC Clause 39 shall be serially numbered CR-X-nnn.
- (2) Estimate for Change Proposal as referred to in GCC Clause 39 shall be serially numbered CN-X-nnn.
- (3) Acceptance of Estimate as referred to in GCC Clause 39 shall be serially numbered CA-X-nnn.
- (4) Change Proposal as referred to in GCC Clause 39 shall be serially numbered CP-X-nnn.
- (5) Change Order as referred to in GCC Clause 39 shall be serially numbered CO-X-nnn.

Note:

- (a) Requests for Change issued from the Employer’s Home Office and the Site representatives of the Employer shall have the following respective references:

Home Office	CR-H-nnn
Site	CR-S-nnn

- (b) The above number “nnn” is the same for Request for Change, Estimate for Change Proposal, Acceptance of Estimate, Change Proposal and Change Order.

B. Change Order Forms

d. Request for Change Proposal Form

[*Employer's letterhead*]

To: [*Contractor's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

With reference to the captioned Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within [*number*] days of the date of this letter [or on or before (*date*)].

1. Title of Change: [*Title*]
2. Change Request No./Rev.: [*Number*]
3. Originator of Change:
Employer: [Name]
Contractor (by Application for Change Proposal No. [Number Refer to Annex 6.2.7])
4. Brief Description of Change: [*Description*]
5. Facilities and/or Item No. of equipment related to the requested Change: [*Description*]
6. Reference drawings and/or technical documents for the request of Change:

<i>Drawing No./Document No.</i>	<i>Description</i>
---------------------------------	--------------------
7. Detailed conditions or special requirements on the requested Change: [*Description*]
8. General Terms and Conditions:
 - (a) Please submit your estimate showing what effect the requested Change will have on the Contract Price.
 - (b) Your estimate shall include your claim for the additional time, if any, for completing the requested Change.
 - (c) If you have any opinion that is critical to the adoption of the requested Change in connection with the conformability to the other provisions of the Contract or the safety of the Plant or Facilities, please inform us in your proposal of revised provisions.
 - (d) Any increase or decrease in the work of the Contractor relating to the services of its personnel shall be calculated.
 - (e) You shall not proceed with the execution of the work for the requested Change until we have accepted and confirmed the amount and nature in writing.

[*Employer's name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

e. Estimate for Change Proposal Form

[Contractor's letterhead]

To: [Employer's name and address]

Date:

Attention: [Name and title]

Contract Name: [Contract name]

Contract Number: [Contract number]

Dear Ladies and/or Gentlemen:

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost to prepare the below-referenced Change Proposal in accordance with GCC Subclause 39.2.1 of the General Conditions. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GCC Subclause 39.2.2, is required before estimating the cost for change work.

1. Title of Change: [Title]
2. Change Request No./Rev.: [Number]
3. Brief Description of Change: [Description]
4. Scheduled Impact of Change: [Description]
5. Cost for Preparation of Change Proposal: [insert costs, which shall be in the currencies of the contract]

(a) Engineering	(Amount)
(i) Engineer _____ hours (hrs) x _____ rate/hr = _____	
(ii) Draftsperson _____ hrs x _____ rate/hr = _____	
Sub-total _____ hrs	_____
Total Engineering Cost	_____
(b) Other Cost	_____
Total Cost (a) + (b)	_____

[Contractor's name]

[Signature]

[Name of signatory]

[Title of signatory]

f. Acceptance of Estimate Form

[*Employer's letterhead*]

To: [*Contractor's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

We hereby accept your Estimate for Change Proposal and agree that you should proceed with the preparation of the Change Proposal.

1. Title of Change: [*Title*]
2. Change Request No./Rev.: [*Request number/revision*]
3. Estimate for Change Proposal No./Rev.: [*Proposal number/revision*]
4. Acceptance of Estimate No./Rev.: [*Estimate number/revision*]
5. Brief Description of Change: [*Description*]
6. Other Terms and Conditions: In the event that we decide not to order the Change accepted, you shall be entitled to compensation for the cost of preparing the Change Proposal described in your Estimate for Change Proposal mentioned in para. 3 above in accordance with GCC Clause 39 of the General Conditions.

[*Employer's name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

g. Change Proposal Form

[Contractor's letterhead]

To: [Employer's name and address]

Date:

Attention: [Name and title]

Contract Name: [Contract name]

Contract Number: [Contract number]

Dear Ladies and/or Gentlemen:

In response to your Request for Change Proposal No. [Number], we hereby submit our proposal as follows:

1. Title of Change: [Name]
2. Change Proposal No./Rev.: [Proposal number / revision]
3. Originator of Change: Employer: [Name] / Contractor: [Name]
4. Brief Description of Change: [Description]
5. Reasons for Change: [Reason]
6. Facilities and/or Item No. of Equipment related to the requested Change: [Facilities]
7. Reference drawings and/or technical documents for the requested Change:
[Drawing/Document No./Description]
8. Estimate of increase/decrease to the Contract Price resulting from the Change Proposal:

Amount

[insert amounts in the currencies of the Contract]

(a) Direct material	_____
(b) Major construction equipment	_____
(c) Direct field labor (Total hrs)	_____
(d) Subcontracts	_____
(e) Indirect material and labor	_____
(f) Site supervision	_____
(g) Head office technical staff salaries	
Process engineer _____ hrs @ _____ rate/hr	_____
Project engineer _____ hrs @ _____ rate/hr	_____
Equipment engineer _____ hrs @ _____ rate/hr	_____
Procurement _____ hrs @ _____ rate/hr	_____
Draftsperson _____ hrs @ _____ rate/hr	_____
Total _____ hrs	_____

(h) Extraordinary costs (computer, travel, etc.)	_____
(i) Fee for general administration, % of Items	_____
(j) Taxes and customs duties	_____
Total lump sum cost of Change Proposal	[Sum of items (a) to (j)]
Cost to prepare Estimate for Change Proposal	[Amount payable if Change is not accepted]
]	

9. Additional time for Completion required due to Change Proposal
10. Effect on the Functional Guarantees
11. Effect on the other terms and conditions of the Contract
12. Validity of this Proposal: within [Number] days after receipt of this Proposal by the Employer
13. Other terms and conditions of this Change Proposal:
 - (a) You are requested to notify us of your acceptance, comments or rejection of this detailed Change Proposal within [Number] days from your receipt of this Proposal.
 - (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.
 - (c) Contractor’s cost for preparation of this Change Proposal: [. . .insert amount. This cost shall be reimbursed by the employer in case of employer’s withdrawal or rejection of this Change Proposal without default of the contractor in accordance with GCC Clause 39 of the General Conditions . . .]

[Contractor’s name]
 [Signature]
 [Name of signatory]
 [Title of signatory]

h. Change Order Form

[*Employer’s letterhead*]To: [*Contractor’s name and address*]

Date:

Attention: [*Name and title*]Contract Name: [*Contract name*]Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

We approve the Change Order for the work specified in the Change Proposal (No. [*number*]), and agree to adjust the Contract Price, Time for Completion, and/or other conditions of the Contract in accordance with GCC Clause 39 of the General Conditions.

1. Title of Change: [*Name*]
2. Change Request No./Rev.: [*Request number / revision*]
3. Change Order No./Rev.: [*Order number / revision*]
4. Originator of Change: Employer: [*Name*] / Contractor: [*Name*]
5. Authorized Price:
Ref. No.: [*Number*] Date: [*Date*]
Foreign currency portion [*Amount*] plus Local currency portion [*Amount*]
6. Adjustment of Time for Completion
None Increase [*Number*] days Decrease [*Number*] days
7. Other effects, if any

Authorized by: _____
Employer

Date: _____

Accepted by: _____
Contractor

Date: _____

i. Pending Agreement Change Order Form

[*Employer’s letterhead*]

To: [*Contractor’s name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

We instruct you to carry out the work in the Change Order detailed below in accordance with GCC Clause 39 of the General Conditions.

1. Title of Change: [*Name*]
2. Employer’s Request for Change Proposal No./Rev.: [*number/revision*] dated: [*date*]
3. Contractor’s Change Proposal No./Rev.: [*number / revision*] dated: [*date*]
4. Brief Description of Change: [*Description*]
5. Facilities and/or Item No. of equipment related to the requested Change: [*Facilities*]
6. Reference Drawings and/or technical documents for the requested Change:
[*Drawing / Document No. / Description*]
7. Adjustment of Time for Completion:
8. Other change in the Contract terms:
9. Other terms and conditions:

[*Employer’s name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

j. Application for Change Proposal Form

[*Contractor's letterhead*]

To: [*Employer's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

We hereby propose that the work mentioned below be treated as a Change in the Facilities.

1. Title of Change: [*Name*]
2. Application for Change Proposal No./Rev.: [*Number / revision*] dated: [*Date*]
3. Brief Description of Change: [*Description*]
4. Reasons for Change:
5. Order of Magnitude Estimation (amount in the currencies of the Contract): [*Amount*]
6. Scheduled Impact of Change:
7. Effect on Functional Guarantees, if any:
8. Appendix:

[*Contractor's name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

15 PERSONNEL REQUIREMENT

The Contractor shall provide adequate and qualified staff to perform the services required herein. The general qualifications for the key personnel are as follows:

DESIGN KEY PERSONNEL			
	Required Professional	Minimum Qualification	Responsibility
1.	Project In-Charge	Must be a licensed Civil Engineer or Architect with at least 15 years professional experience with relevant experience in the direction and administration of activities pertinent to the planning, design and construction of infrastructure projects.	<ul style="list-style-type: none"> ▪ Responsible for all the aspects of the project. ▪ Responsible for the conduct of planning and finalization of project requirements, detailed engineering design and pre-construction activities including finalization of the Contractor's scope of work.
2.	Structural Engineer	Must be duly licensed Civil Engineer with at least 10 years of experience in structural design; has substantial knowledge in earthquake design of building structures and shall preferably be knowledgeable in the application of rapid construction technologies.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of structural design and evaluation of the structural elements of the building during the detailed engineering stage.
3.	Design Architect (Architect-of-Record)	Must be duly licensed and an active member of Integrated and Accredited Professional Organization of Architects (IAPOA) with at least 10 years of experience in the architectural design of residential, academic or institutional facilities and corporate buildings, site planning and landscaping.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of architectural designs and details of the project components and other aesthetic aspects during the detailed engineering stage.
4.	Professional Electrical Engineer	Must be duly licensed with at least 5 years of experience in building electrical design, lighting, power distribution, switches and panels and preferably knowledgeable in efficient lighting technologies and energy management; has substantial knowledge in electronics systems design as well as smoke detection and fire alarm systems in buildings.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of all electrical design and details during detailed engineering stage. ▪ Responsible for the design and layout of data and communication facilities during the detailed engineering stage.
5.	Professional Mechanical Engineer	Must be duly licensed with at least 5 years of experience in mechanical design and installations of HVAC and fire protection and suppression systems and preferably knowledgeable in emergent, alternative energy-efficient HVAC technologies.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of all mechanical design and details during detailed engineering stage

DESIGN KEY PERSONNEL			
	Required Professional	Minimum Qualification	Responsibility
6.	Sanitary Engineer/ Registered Master Plumber	Must be duly licensed with at least 5 years of experience in the design of building water supply and distribution systems, plumbing and sanitary systems including waste water management and treatment, and preferably knowledgeable in and emergent, alternative effluent collection and treatment systems.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of all sanitary design and details of the building during detailed engineering stage.
7.	Geotechnical Engineer	Must be duly licensed Civil Engineer with a post graduate degree in Geotechnical Engineering or PICE Specialization with at least 5 years of experience in geotechnical evaluation.	<ul style="list-style-type: none"> ▪ Responsible for the conduct of all geotechnical investigation and analysis of soil investigation reports during detailed engineering stage.
8.	Cost/ Quantity/ Specifications Engineer	Must be duly licensed Civil Engineer with at least 5 years of experience in the preparation of technical specifications and detailed analysis of all applicable unit prices.	<ul style="list-style-type: none"> ▪ Responsible for the preparation of detailed cost estimation for items of work, materials specifications and updating of the detailed bill of quantities based on detailed engineering plans.
9.	Environmental Specialist	Background in environmental science or engineering with minimum of 5 years' experience in environmental management and monitoring in construction projects. At least 5 years of experience preparing IEE and EIA reports and environment management plans	<ul style="list-style-type: none"> ▪ Responsible for the preparation/assistance in the completion of requirements for the acquisition of Environmental Compliance Certificate ▪ Prepare the Contractor's Environmental Management Plan
10.	Social and Gender Specialist	Background in social science with at least 5 years' experience demonstrated experience as a social and gender development specialist	<ul style="list-style-type: none"> ▪ Ensure compliance with all social development action plans and strategies ▪ Support WD to establish and ensure that the project provides for key social inclusion, and poverty reduction targets. ▪ Ensure that the project implementation does not involve child labor in the execution of the civil works contracts in accordance with the provisions of the contract agreement.

CONSTRUCTION KEY PERSONNEL			
1.	Construction In-Charge	Must be a licensed Civil Engineer or Architect with at least 15 years professional experience with relevant experience in similar and comparable projects; must have a proven record of managerial capability through directing, managing and supervising of major civil engineering works of buildings and facilities similar in nature and complexity	<ul style="list-style-type: none"> ▪ Responsible for all aspects of the project implementation. ▪ Responsible for the mobilization, construction management and supervision of phases of work. ▪ Responsible for organizing and directing the work of his staff in carrying activities required to ensure that the specified works are built in full conformity with approved contract documents and that payments to Contractor represent actual in-placed accomplishment.
2.	Supervising Architect (Architecture In-Charge of Construction)	Must be duly licensed and an active member of Integrated and Accredited Professional Organization of Architects (IAPOA) with at least 10 years of experience in similar and comparable projects and shall preferably be knowledgeable in the application of rapid construction technologies.	<ul style="list-style-type: none"> ▪ Responsible for the supervision of the architectural works during construction phase.
3.	Professional Electrical Engineer	Must be duly licensed with at least 5 years of experience in building electrical design and installations, lighting, power distribution, switches and panels; preferably knowledgeable in efficient lighting technologies and energy management; has substantial knowledge in electronics systems design, smoke detection and fire alarm systems in buildings.	<ul style="list-style-type: none"> ▪ Responsible for the supervision of all electrical works during construction. ▪ Responsible for the supervision of the electronics and communication aspect of the work during construction.
4.	Professional Mechanical Engineer	Must be duly licensed with at least 5 years of experience in mechanical design and installations of HVAC and fire protection systems and preferably knowledgeable in emergent, alternative energy-efficient HVAC technologies.	<ul style="list-style-type: none"> ▪ Responsible for the supervision of the mechanical works during construction.
5.	Sanitary Engineer/ Registered Master Plumber	Must be duly licensed with at least 5 years of experience in the design of building water supply and distribution systems, plumbing and sanitary systems including waste water management and treatment, and preferably knowledgeable in and emergent, alternative effluent collection and treatment systems.	<ul style="list-style-type: none"> ▪ Responsible for the supervision of all plumbing and sanitary works during construction.
6.	Geodetic Engineer	Must be duly licensed Geodetic Engineer with at least 5 years of experience in geodetic survey of building construction of similar nature.	<ul style="list-style-type: none"> ▪ Responsible for all locations and surveys to ensure correct horizontal and vertical controls to be used as basis in the detailed engineering stage and actual stake-out; ▪ Responsible for the monitoring

CONSTRUCTION KEY PERSONNEL			
			and supervision of the survey works during the construction phase.
7.	Cost/ Quantity/ Specifications Engineer	Must be duly licensed Civil Engineer with at least 5 years of experience in the preparation of technical specifications and detailed analysis of all applicable unit prices.	<ul style="list-style-type: none"> ▪ Responsible for the qualification of the actual construction progress and related variation order; ▪ Responsible in quantity surveys and cost estimation for items of work for buildings and facilities of similar nature.
8.	Materials Engineer	Must be duly licensed Civil Engineer with Level 1 or 2 DPWH Accreditation for Materials Engineer and at least 5 years of experience in supervising materials investigations and quality control; must have a duly recognized experience in similar and comparable projects.	<ul style="list-style-type: none"> ▪ Responsible for organizing and supervising the sampling and testing of materials proposed for use in the project components, so as to ensure adequate quality control of the works being constructed.
9.	Environmental Specialist	Background in environmental science or engineering with minimum of 5 years' experience in environmental management and monitoring in construction projects. At least 5 years of experience preparing IEE and EIA reports and environment management plans	<ul style="list-style-type: none"> ▪ Advise on environmental related concerns that may arise during project implementation and recommend appropriate action plans. ▪ Support in EMP implementation supervision and monitoring; provide oversight on environmental management aspects of the projects and ensure that the CEMP is properly implemented.
10.	Social and Gender Specialist	Background in social science with at least 5 years' experience demonstrated experience as a social and gender development specialist	<ul style="list-style-type: none"> ▪ Ensure compliance with all social development action plans and strategies ▪ Support WD to establish and ensure that the project provides for key social inclusion, and poverty reduction targets. ▪ Ensure that the project implementation does not involve child labor in the execution of the civil works contracts in accordance with the provisions of the contract agreement.

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16 EQUIPMENT REQUIREMENT

All Contractor’s Equipment, machinery, and tools used in the Works shall be kept in satisfactory working and safe conditions and shall be subject to the review of the Engineer at any time during

performance of the Works. The Contractor shall keep copies of certifications for Contractor’s Equipment whenever there is a change in Contractor’s Equipment.

Using Form EQU in Section 4 (Bidding Forms), the Bidder must demonstrate that it has the key equipment listed below:

No.	Equipment Type and Characteristics	Minimum Number Required
1	Backhoe with breaker (0.80 cu m)	1
2	Bar bender	1
3	Bar cutter	1
4	Cargo truck	1
5	Concrete vibrator	2
6	Dewatering Pumps (200 m ³ /hr x 10 m head=10HP)	2
7	Dump truck (10 cu m)	1
8	Electric lighting	2
9	Generator	1
10	Hauling truck	2
11	Payloader (1.50 cum)	1
12	Plate compactor (5 HP)	1
13	Concrete Mixer (one bagger)	2
14	Vibratory roller	1
15	Water truck (4,000 li)	1
16	Welding machine	1

17 REPORTORIAL REQUIREMENT

The Contractor shall present (in PowerPoint format or equivalent) to the Owner his Detailed Architectural Concept within 5 calendar days upon receipt of Notice to Proceed/Contract effectivity, but not necessarily limited to the following:

1. Site Development Plans
2. Exterior Perspectives
3. Interior Perspectives
4. Axonometric Plans with Outline Materials Specifications provided per Department
5. Floor Plans with Furniture Layout and Outline Intent Perspective Architectural Dimensional Floor Plans
6. Building Elevations (on all 4 sides)
7. Building Sections (minimum of 2 sections)
8. Reflected Ceiling Plans
9. Schedule of Finishes, Doors and Windows
10. Architectural Interior Plans (Detailed Floor Plan, Reflected Ceiling Plan and Interior Elevations) for the Main Lobby, Hallways, GM’s Office, and Board Room

18 SUBMITTALS AND DELIVERY

A. Stage 1 – Design Phase

A. STAGE 1 - DESIGN PHASE				
Delivery		Detailed Architectural Conceptual Plans	Form	Efficiency
Initial Submittals	Within 5 calendar days after presentation of the Detailed Architectural Concept.	<ol style="list-style-type: none"> 1. Detailed Site Development Plan 2. Exterior Perspective (4 views) 3. Interior Perspective (2 views) 	Colored Print A3 size paper Colored Print A3 size paper Colored Print A3 size paper	1-Complete Set of Detailed Architectural Conceptual Plans , duly signed and sealed by the Designer and drawn in suitable scale, for Owner's review & approval.
Final Submittals	Within 5 calendar days upon notification of the Project Manager.	<ol style="list-style-type: none"> 4. Axonometric Floor Plans with Outline Materials 5. Specifications Floor Plans with Furniture Layout and Outline Intent Perspective 6. Building Elevations (on all 4 sides) 7. Architectural 8. Dimensional Floor Plans Building Sections (minimum of 2 sections) 9. Reflected Ceiling Plan Schedule of Finishes, Doors and Windows Architectural Interior Plans (Detailed Floor Plan, Reflected Ceiling Plan and Interior Elevations) for the Main Lobby, Hallways, General Manager's Office, and Board Room 	Colored Print A3 size paper Colored Print A3 size paper in 24" x 36" blueprinted paper in 24" x 36" blueprinted paper in 24" x 36" blueprinted paper in 24" x 36" blueprinted paper	2-Complete Sets of the same Plans , duly signed and sealed by the Designer, for Owner's approval. Once approved, the Contractor shall reproduce the approved plans in 3 duplicate copies and furnish the Owner such plans.

Such review by the Owner is limited only as to completeness and consistency of the details of the plans submitted. Owner's review shall be done within 5 days after receipt of such plans.

Distribution of Copies

Approved plans shall be furnished to the following:

- (1) Owner - 2 sets original & 2 sets duplicate
- (2) Contractor -1 set original & 1-duplicate

B. Stage 2 – Design Phase

B. STAGE 2 - DESIGN PHASE				
Delivery		Detailed Design Construction Plans	Sheet Size	Efficiency
Initial Submittals	Within 30 cd upon approval of the Detailed Architectural Conceptual Plans.	1. Detailed Site Development Plan	24" x 36"	1-Complete Set of Plans (in blueprinted paper) and 1-Complete Set of Documents , duly signed and sealed by the Designer and drawn in suitable scale, for Owner's review & approval.
		1.1 Architectural Site Development Plan	24" x 36"	
		1.2 Power System Site Development Plan	24" x 36"	
		1.3 Lighting Site Development Plan	24" x 36"	
		1.4 Data/Telephone Site Development Plan	24" x 36"	
		1.5 Site Development Plumbing Layout	24" x 36"	
		2. Architectural (Main Building)		
		2.1 Cover Sheet, perspective views	24" x 36"	
		2.2 Basement Plan on Site	24" x 36"	
		2.3 Basement Plan	24" x 36"	
		2.4 Ground Floor Plan	24" x 36"	
		2.5 2nd Floor Plan	24" x 36"	
		2.6		
		2.7 Roof Plan	24" x 36"	
		2.8 Northwest Elevation	24" x 36"	
		2.9 Southeast Elevation	24" x 36"	
		2.10 Northeast Elevation	24" x 36"	
		2.11 Southwest Elevation	24" x 36"	
		2.12 Longitudinal Section	24" x 36"	
		2.13 Cross Section	24" x 36"	
		2.14 Bay Sections	24" x 36"	
		2.15 Stair Details	24" x 36"	
		2.16 Canopy Details	24" x 36"	
		2.17 Ramp Details	24" x 36"	
		2.18 Basement Floor Reflected Ceiling Plan	24" x 36"	
		2.19 Ground Floor Reflected Ceiling Plan	24" x 36"	
2.20 2nd Floor Reflected Ceiling Plan	24" x 36"			
2.21				
2.22 Schedule of Floor & Wall Finishes	24" x 36"			
2.23 Door & Window Schedule	24" x 36"			
2.24 Termination Details	24" x 36"			
2.25 Toilet Details	24" x 36"			
2.26 Miscellaneous Details	8.5" x 11"			

B. STAGE 2 - DESIGN PHASE				
Delivery		Detailed Design Construction Plans	Sheet Size	Efficiency
Final Submittals	Within 5 cd upon notification of the Project Manager.	3. Architectural (Interior Plans)		1-Complete Set of Plans (in tracing paper/reproducible copy), 1-Complete Set of Plans (in blue print copy), 1-Complete Set of Plans (in CADD editable file) and 1- Complete Set of Documents , duly signed and sealed by the Designer and drawn in suitable scale. Once approved, the Contractor shall reproduce the plans in 9 duplicate copies and 4 duplicate copies of the Documents and furnish the Owner such plans and documents
		3.1 Basement Furniture/Fixture Plan	24" x 36	
		3.2 Ground Floor Furniture/Fixture Plan	24" x 36	
		3.3 2 nd Floor Furniture/Fixture Plan	24" x 36	
		3.4		
		3.5 Basement Floor Covering Plan	24" x 36	
		3.6 Ground Floor Covering Plan	24" x 36	
		3.7 2 nd Floor Covering Plan	24" x 36	
		3.8		
		3.9 Basement Floor Electrical - Mechanical Plan	24" x 36	
		3.10 Ground Flr Electrical - Mechanical Plan	24" x 36	
		3.11 2 nd Flr Electrical - Mechanical Plan	24" x 36	
		3.12		
		3.13 Other Details, if any	24" x 36	
		3.14 Architectural Specifications	24" x 36	
		4. Structural & Civil Plans		
		4.1 Construction, Notes, Typical Structural Details	24" x 36	
		4.2 Foundation Plan showing Driven Pile Layout	24" x 36	
		4.3 Foundation Plan showing Pile Cap Layout	24" x 36	
		4.4 Pile, Tie Beam, Column	24" x 36	
		4.5 Ground Floor Framing Plan	24" x 36	
		4.6 2 nd Floor Framing Plan	24" x 36	
		4.7		
		4.8 Roof Framing Plan	24" x 36	
		4.9 Reinforced Concrete Beam Schedule	24" x 36	
		4.10 Reinforced Concrete Girders Schedule	24" x 36	
		4.11 Shear Wall Schedule	24" x 36	
		4.12 Structural Details	24" x 36	
		4.13 Canopy Details	24" x 36	
		4.14 Structural Specifications & Computation	8.5" x 11"	
		5. Mechanical Plans		
		5.1 Equipment Schedule, General Notes	24" x 36"	
		5.2 Basement A/C & Ventilation Layout	24" x 36"	
		5.3 Ground Floor A/C & Ventilation Layout	24" x 36"	
5.4 2 nd Floor A/C & Ventilation Layout	24" x 36"			

B. STAGE 2 - DESIGN PHASE			
Delivery	Detailed Design Construction Plans	Sheet Size	Efficiency
	5.5 HVAC Overall Control Schematic Diagram	24" x 36"	
	5.6 Installation Details	24" x 36"	
	5.7 Mechanical Specifications	8.5" x 11"	
	6. Electrical & IT Plans		
	6.1 Legends, General Notes & Symbols	24" x 36"	
	6.2 Single Line Diagram	24" x 36"	
	6.3 Grounding System Layout & Details	24" x 36"	
	6.4 Basement Power System Layout	24" x 36"	
	6.5 Ground Floor Power System Layout	24" x 36"	
	6.6 2nd Floor Power System Layout	24" x 36"	
	6.7		
	6.8 Basement FDAS System Layout	24" x 36"	
	6.9 Ground Floor FDAS System Layout	24" x 36"	
	6.10 2nd Floor FDAS System Layout	24" x 36"	
	6.11		
	6.12 Basement Lighting System Layout	24" x 36"	
	6.13 Ground Floor Lighting System Layout	24" x 36"	
	6.14 2nd Floor Lighting System Layout	24" x 36"	
	6.15		
	6.16 Basement Data/Telephone System Layout	24" x 36"	
	6.17 Ground Floor Data/Telephone System Layout	24" x 36"	
	6.18 2nd Floor Data/Telephone System Layout	24" x 36"	
	6.19 Layout	24" x 36"	
	6.20 Electrical Details	24" x 36"	
	6.21 Electrical Specifications	8.5" x 11"	
	7. Sanitary/Plumbing Plans		
	7.1 General Notes, Legend, Symbols & Specifications	24" x 36"	
	7.2 Basement Plumbing Layout	24" x 36"	
	7.3 Ground Floor Plumbing Layout	24" x 36"	
	7.4 2nd Floor Plumbing Layout	24" x 36"	
	7.5		
	7.6 Roughing-in of Toilet	24" x 36"	

B. STAGE 2 - DESIGN PHASE			
Delivery	Detailed Design Construction Plans	Sheet Size	Efficiency
	7.7 Cistern Tank and Overhead Water Tank Details	24" x 36"	
	7.8 Sanitary/Plumbing Details	24" x 36"	
	7.9 Sanitary/Plumbing Specifications	8.5" x 11"	
	8. Fire Protection & Suppression Plans		
	8.1 Material Specifications, General Notes, Legend & Symbols	24" x 36"	
	8.2 Basement Reflected Ceiling AFSS Layout	24" x 36"	
	8.3 Ground Floor Reflected Ceiling AFSS Layout	24" x 36"	
	8.4 2nd Floor Reflected Ceiling AFSS Layout	24" x 36"	
	8.5		
	8.6 Tabulated Components of Automatic Fire Sprinkler System &	24" x 36"	
	8.7 Miscellaneous Details Fire Protection & Suppression Specifications	8.5" x 11"	
	9. Other Documents		
	9.1 Technical Specifications for Items of Work	8" x 11"	
	9.2 Detailed Cost Estimates	8" x 11"	
	9.3 Detailed Bill of Quantities	8" x 11"	
	9.4 Unit Price Analysis	8" x 11"	
	9.5 Gantt Chart with Cash Flow & S-Curve	8" x 11"	
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	9.8 Equipment Utilization Schedule	A3	
	9.9 Detailed Construction Methodology	A3	

Approved plans and documents shall be furnished to the following:

- (1) Owner
 - 1 set of Plans original & 2-sets of Plans duplicate
 - 1 set of Plans in tracing paper/reproducible
 - 1 set of Plans in CADD Editable File
- (2) Contractor
 - 1 set of Plans original & sets of Plans duplicate

C. Detailed Report Submittals

The Contractor shall submit five (2) copies of signed and sealed reports and documents together with the Detailed Design Construction Plans as follows:

i. Survey Data Report

Complete data for site, topographic, geotechnical, and geological surveys, coordinates and elevation references, power supply and other requirements as may be deemed necessary.

ii. Geotechnical, Soils and Materials Report

The Contractor shall summarize the results, analysis and evaluation of the soil investigation for the construction of the new buildings, parking area and other facilities.

iii. Quantity Calculations

Complete quantity and cost calculations for every item of construction work specified in the Bill of Quantities. In particular, the quantities and cost of each work item according to area of application shall be calculated and a bill of quantities shall be prepared.

iv. Design Report

Summarizing the basis for the design presented and including all design calculations properly indexed.

v. Consolidated copy of All Specific References

D. Permits

The Contractor shall submit to the Owner original copy of all permits and clearances/certificates issued by regulatory body. Photocopies may be retained by the Contractor for use in the field.

Prior to any construction work, the Contractor shall submit all construction permits but not necessarily limited to the following documents:

- (1) Demolition Permit
- (2) Appropriate Certificate from DENR
- (3) Excavation Permit
- (4) Fencing Permit
- (5) Building Permit
- (6) Fire Clearance Certificate
- (7) Occupational Safety and Health Program

Upon completion of the project, the Contractor shall submit:

- (1) Occupancy Permit
- (2) Other permits/clearances as may be required.

E. Construction Phase

The Contractor shall prepare Daily Accomplishment Report, supported with progress photographs and S-curves to monitor actual progress status of the project. The daily accomplishment reports shall be consolidated weekly and submitted monthly to the Owner. Such reports will form part of the requirements for progress payments.

Shop drawings, when required by the Project Manager, shall also be prepared and submitted to the Owner at the time and period required by the Project Manager. Such shop drawings will form part of the requirements for progress payments.

F. Post Construction Phase Initial Submittals

Within 10 calendar days upon completion of the project, the Contractor shall submit One (1) Complete Set of As-Built Plans (printed in blueprinted paper) duly signed and sealed by the Contractor, drawn in 24” x 36” drawing sheets, subject for review by the Owner. Such review by the Owner is limited only as to completeness and correctness of the details of the plans submitted.

Final Submittals

When the preliminary submittal is in accordance to the as-built structure, upon notification by the Project Manager, the Contractor shall submit another set of the same plans and other documentation, subject for approval by the Owner, in the following form:

- (1) 1 – complete set of As-Built Plans (in tracing paper/reproducible copy)
- (2) 1 – complete set of As-Built Plans (blue print copy)
- (3) 1 – set of Electronic File of the As-Built Plans (CADD editable file)
- (4) 2 – Sets of Operation and Maintenance Manual, in book form and printed in 8” x 11” size paper, of all equipment and machineries installed, incorporating the technical literature as designed and as actually installed. The O&M information shall be system specific, concise, to the point and tailored specifically to the facility.
- (5) 1 – set original & 1-set duplicate copies of Warranty Certificates of all equipment supplied and installed.
- (6) 1 – set original & 1-set duplicate copies of Occupancy Permit and other permit(s) or clearances as may be required.

When the reproducible copy (tracing paper) of the As-Built Plans has been approved, upon notification by the Project Manager, the Contractor shall reproduce the as-built plans in complete set (blue print copy) and submit the same to the Owner.

Section 7 - General Conditions of Contract

These General Conditions of Contract (GCC) are based on the Model Form of International Contract for Process Plant Construction published by the Engineering Advancement Association of Japan (ENAA). The Multilateral Development Banks (MDBs) participating in the procurement harmonization process gratefully acknowledge the contribution of ENAA to the advancement of good contracting practices by its borrowers. The GCC contain general clauses to be applied on all contracts. The GCC in this section, read in conjunction with the Special Conditions of Contract in Section 8 and other documents listed therein, should be a complete document expressing all the rights and obligations of the contracting parties. The General Conditions herein shall not be altered.

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General Conditions of Contract

A. Contract and Interpretation

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned them:

“Contract” means the Contract Agreement entered into between the Employer and the Contractor, together with the Contract Documents referred to therein; they shall constitute the Contract, and the term “the Contract” shall in all such documents be construed accordingly.

“Contract Documents” means the documents listed in Article 1.1 (Contract Documents) of the Contract Agreement (including any amendments thereto).

“GCC” means the General Conditions of Contract.

“SCC” means the Special Conditions of Contract.

“day” means calendar day.

“year” means 365 days.

“month” means calendar month.

“Party” means the Employer or the Contractor, as the context requires.

“Employer” means the person named as such in the SCC and includes the legal successors or permitted assigns of the Employer.

“Project Manager” means the person appointed by the Employer in the manner provided in GCC Subclause 17.1 (Project Manager) hereof and named as such in the SCC to perform the duties delegated by the Employer.

“Contractor” means the person(s) named as Contractor in the Contract Agreement, and includes the legal successors or permitted assigns of the Contractor.

“Contractor’s Representative” means any person nominated by the Contractor and approved by the Employer in the manner provided in GCC Subclause 17.2 (Contractor’s Representative and Construction Manager) hereof to perform the duties delegated by the Contractor.

“Construction Manager” means the person appointed by the Contractor’s Representative in the manner provided in GCC Subclause 17.2.4.

“Subcontractor,” including manufacturers, means any person to whom execution of any part of the Facilities, including preparation of any design or supply of any Plant, is sub-contracted directly or indirectly by the Contractor, and includes its legal successors or permitted assigns.

“Dispute Board” means the person or persons named as such in the SCC appointed by agreement between the Employer and the Contractor to make a decision on or to settle any dispute or difference between the Employer and the Contractor referred to him or her by the parties pursuant to GCC Subclause 45.1 (Dispute Board) hereof.

“The Bank” means the financing institution named in the SCC.

“Contract Price” means the sum specified in Article 2.1 (Contract Price) of the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

“Facilities” means the Plant to be supplied and installed, as well as all the Installation Services to be carried out by the Contractor under the Contract.

“Plant” means permanent plant, equipment, machinery, apparatus, articles and things of all kinds to be provided and incorporated in the Facilities by the Contractor under the Contract (including the spare parts to be supplied by the Contractor under GCC Subclause 7.3 hereof), but does not include Contractor’s Equipment.

“Installation Services” means all those services ancillary to the supply of the Plant for the Facilities, to be provided by the Contractor under the Contract, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation works (including the provision and use of Contractor’s Equipment and the supply of all construction materials required), installation, testing, precommissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training, etc. as the case may require.

“Contractor’s Equipment” means all facilities, equipment, machinery, tools, apparatus, appliances, or things of every kind required in or for installation, completion and maintenance of Facilities that are to be provided by the Contractor, but does not include Plant, or other things intended to form or forming part of the Facilities.

“Country of Origin” means the countries and territories eligible under the rules of the Bank as further elaborated in the SCC.

“Site” means the land and other places upon which the Facilities are to be installed, and such other land or places as may be specified in the Contract as forming part of the Site.

“Effective Date” means the date of fulfillment of all conditions stated in Article 3 (Effective Date) of the Contract Agreement, upon which the period until the Time for Completion shall be counted from.

“Time for Completion” means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been prescribed) is to be attained, as referred to in GCC Clause 8 and in accordance with the relevant provisions of the Contract.

“Completion” means that the Facilities (or a specific part thereof where specific parts are specified in the Contract) have been completed operationally and structurally and put in a tight and clean condition, that all work in respect of Precommissioning of the Facilities or such specific part thereof has been completed, and that the Facilities or specific part thereof are ready for Commissioning as provided in GCC Clause 24 (Completion) hereof.

“Precommissioning” means the testing, checking and other requirements specified in the Employer’s Requirements that are to be carried out by the Contractor in preparation for Commissioning as provided in GCC Clause 24 (Completion) hereof.

“Commissioning” means operation of the Facilities or any part thereof by the Contractor following Completion, which operation is to be carried out by the Contractor as provided in GCC Subclause 25.1 (Commissioning) hereof, for the purpose of carrying out Guarantee Test(s).

“Guarantee Test(s)” means the test(s) specified in the Employer’s Requirements to be carried out to ascertain whether the Facilities or a specified part thereof is able to attain the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement in accordance with the provisions of GCC Subclause 25.2 (Guarantee Test) hereof.

“Operational Acceptance” means the acceptance by the Employer of the Facilities (or any part of the Facilities where the Contract provides for acceptance of the Facilities in parts), which certifies the Contractor’s fulfillment of the Contract in respect of Functional Guarantees of the Facilities (or the relevant part thereof) in accordance with the provisions of GCC Clause 28 (Functional Guarantees) hereof and shall include deemed acceptance in accordance with GCC Clause 25 (Commissioning and Operational Acceptance) hereof.

“Defect Liability Period” means the period of validity of the warranties given by the Contractor commencing at Completion of the Facilities or a part thereof, during which the Contractor is responsible for defects with respect to the Facilities (or the relevant part thereof) as provided in GCC Clause 27 (Defect Liability) hereof.

2. Contract Documents

2.1 Subject to Article 1.2 (Order of Precedence) of the Contract Agreement, all documents forming part of the Contract (and all parts thereof) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

3. Interpretation

3.1 In the Contract, except where the context requires otherwise,

- (a) words indicating one gender include all genders;
- (b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- (c) provisions including the word “agree,” “agreed,” or “agreement” require the agreement to be record in writing;
- (d) the word “tender” is synonymous with “bid,” “tenderer” with “Bidder,” and “tender documents” with “Bidding Documents;” and
- (e) “written” or “in writing” means handwritten, typewritten, printed or electronically made, and resulting in a permanent record.

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

3.2 Incoterms

Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.

“Incoterms” means international rules for interpreting trade terms published by the International Chamber of Commerce (latest edition), 38 Cours Albert 1^{er}, 75008 Paris, France.

3.3 Entire Agreement

Subject to GCC Subclause 16.4 hereof, the Contract constitutes the entire agreement between the Employer and Contractor with respect to the subject matter of Contract and supersedes all communications, negotiations, and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.

3.4 Amendment

No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party hereto.

3.5 Independent Contractor

The Contractor shall be an independent contractor performing the Contract. The Contract does not create any agency, partnership, joint venture, or other joint relationship between the parties hereto. Subject to the provisions of the Contract, the Contractor shall be solely responsible for the manner in which the Contract is performed. All employees, representatives, or Subcontractors engaged by the Contractor in connection with the performance of the Contract shall be under the complete control of the Contractor and shall not be deemed to be employees of the Employer, and nothing contained in the Contract or in any subcontract awarded by the Contractor shall be construed to create any contractual relationship between any such employees, representatives, or Subcontractors and the Employer.

3.6 Non-Waiver

3.6.1 Subject to GCC Subclause 3.6.2 below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, nor shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

3.6.2 Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, must be dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

3.7 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity, or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

3.8 Country of Origin

"Origin" means the place where the plant and component parts thereof are mined, grown, produced, or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially in its basic characteristics or in purpose or utility from its components.

- 4. Communications**
- 4.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests, and discharges, these communications shall be
- (a) in writing and delivered against receipt; and
 - (b) delivered, sent, or transmitted to the address for the recipient's communications as stated in the Contract Agreement.
- When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Project Manager, a copy shall be sent to the Project Manager or the other Party, as the case may be.
- 5. Law and Language**
- 5.1 The Contract shall be governed by and interpreted in accordance with laws of the country specified in the SCC.
- 5.2 The ruling language of the Contract shall be that stated in the SCC.
- 5.3 The language for communications shall be the ruling language unless otherwise stated in the SCC.
- 6. Fraud and Corruption**
- 6.1 ADB's Anticorruption Policy (1998, as amended to date) requires Borrowers (including beneficiaries of ADB-financed activity), as well as Contractors, Subcontractors, manufacturers, and Consultants under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, ADB
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;
 - (v) "abuse" means theft, waste or improper use of assets related to ADB-related activity, either committed intentionally or through reckless disregard;
 - (vi) "conflict of interest" means any situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations;

- (vii) "obstructive practice" means (a) deliberately destroying, falsifying, altering or concealing of evidence material to an ADB investigation, or deliberately making false statements to investigators, with the intent to impede an ADB investigation; (b) threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to a Bank investigation or from pursuing the investigation; or (c) deliberate acts intended to impede the exercise of ADB's contractual rights of audit or inspection or access to information; and
 - (viii) "integrity violation" is any act, as defined under ADB's Integrity Principles and Guidelines (2015, as amended from time to time), which violates ADB's Anticorruption Policy, including (i) to (vii) above and the following: violations of ADB sanctions, retaliation against whistleblowers or witnesses, and other violations of ADB's Anticorruption Policy, including failure to adhere to the highest ethical standard.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the Contract;
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation;
 - (d) will impose remedial actions on a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines, including declaring ineligible, either indefinitely or for a stated period of time, to participate⁷ in ADB-financed, -administered, or -supported activities or to benefit from an ADB-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and
 - (e) will have the right to require suppliers and contractors to permit ADB or its representative to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by ADB.
- 6.2 All Bidders, consultants, contractors, suppliers and other third parties engaged or involved in ADB-related activities have a duty to cooperate fully in any screening or investigation when requested by ADB to do so. Such cooperation includes, but is not limited to, the following:

⁷ Whether as a Contractor, Subcontractor, Consultant, Manufacturer or Supplier, or Service Provider; or in any other capacity (different names are used depending on the particular Bidding Document).

- (a) being available to be interviewed and replying fully and truthfully to all questions asked;
 - (b) providing ADB with any items requested that are within the party's control including, but not limited to, documents and other physical objects;
 - (c) upon written request by ADB, authorizing other related entities to release directly to ADB such information that is specifically and materially related, directly or indirectly, to the said entities or issues which are the subject of the investigation;
 - (d) cooperating with all reasonable requests to search or physically inspect their person and/or work areas, including files, electronic databases, and personal property used on ADB activities, or that utilizes ADB's ICT resources or systems (including mobile phones, personal electronic devices, and electronic storage devices such as external disk drives);
 - (e) cooperating in any testing requested by ADB, including but not limited to, fingerprint identification, handwriting analysis, and physical examination and analysis; and
 - (f) preserving and protecting confidentiality of all information discussed with, and as required by, ADB.
- 6.3 All Bidders, consultants, contractors and suppliers shall ensure that, in its contract with its sub-consultants, sub-contractors and other third parties engaged or involved in ADB-related activities, such sub-consultants, sub-contractors and other third parties similarly undertake the foregoing duty to cooperate fully in any screening or investigation when requested by ADB to do so.

B. Subject Matter of Contract

7. Scope of Facilities

- 7.1 Unless otherwise expressly limited in the Employer's Requirements, the Contractor's obligations cover the provision of all Plant and the performance of all Installation Services required for the design, the manufacture (including procurement, quality assurance, construction, installation, associated civil works, pre-commissioning and delivery) of the Plant and the installation, completion, and commissioning of the Facilities in accordance with the plans, procedures, specifications, drawings, codes, and any other documents as specified in the section Employer's Requirements. Such specifications include, but are not limited to, the provision of supervision and engineering services; the supply of labor, materials, equipment, spare parts (as specified in GCC Subclause 7.3 below) and accessories; Contractor's Equipment; construction utilities and supplies; temporary materials, structures, and facilities; transportation (including, without limitation, unloading and hauling to, from and at the Site); and storage, except for those supplies, works, and services that will be provided or performed by the Employer, as set forth in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement.
- 7.2 The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of

the Facilities as if such work and/or items and materials were expressly mentioned in the Contract.

- 7.3 In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and maintenance of the Facilities for the period specified in the SCC and the provisions, if any, specified in the SCC. However, the identity, specifications, and quantities of such spare parts and the terms and conditions relating to the supply thereof are to be agreed between the Employer and the Contractor, and the price of such spare parts shall be that given in Price Schedule No. 6, which shall be added to the Contract Price. The price of such spare parts shall include the purchase price therefore and other costs and expenses (including the Contractor's fees) relating to the supply of spare parts.

8. Time for Commencement and Completion

- 8.1 The Contractor shall commence work on the Facilities within the period specified in the SCC and without prejudice to GCC Subclause 26.2 hereof, the Contractor shall thereafter proceed with the Facilities in accordance with the time schedule specified in the Appendix 4 (Time Schedule) to the Contract Agreement.
- 8.2 The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time stated in the SCC or within such extended time to which the Contractor shall be entitled under GCC Clause 40 hereof.

9. Contractor's Responsibilities

- 9.1 The Contractor shall design, manufacture, including associated purchases and/or subcontracting, install, and complete the Facilities in accordance with the Contract. When completed, the Facilities should be fit for the purposes for which they are intended as defined in the Contract.
- 9.2 The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Facilities, including any data as to boring tests provided by the Employer, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site if access thereto was available and of other data readily available to it relating to the Facilities as of the date 28 days prior to bid submission. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Facilities.
- 9.3 The Contractor shall acquire and pay for all permits, approvals, and/or licenses from all local, state, or national government authorities or public service undertakings in the country where the Site is located, which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the Employer under GCC Subclause 10.3 hereof and that are necessary for the performance of the Contract.
- 9.4 The Contractor shall comply with all laws in force in the country where the Facilities are to be implemented. The laws will include all local, state, national, or other laws that affect the performance of the Contract and

bind upon the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel, including the Subcontractors and their personnel, but without prejudice to GCC Subclause 10.1 hereof.

9.5 Any plant and services that will be incorporated in or be required for the Facilities and other supplies shall have their origin as specified under GCC Clause 1 (Country of Origin). Any Subcontractors retained by the Contractor shall be from a country as specified in GCC Clause 1 (Country of Origin).

9.6 The Contractor shall permit ADB to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by ADB, if so required by ADB.

9.7 If the Contractor is a joint venture or consortium of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfillment of the provisions of the Contract and shall designate one of such persons to act as a leader with authority to bind the joint venture or consortium. The composition or the constitution of the joint venture or consortium shall not be altered without the prior consent of the Employer.

9.8 Protection of the Environment

(a) The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise, and other results of his operations.

(b) The Contractor shall ensure that emissions, surface discharges, and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws.

9.9 The Contractor shall:

(a) comply with the measures relevant to the Contractor set forth in the respective framework for IEE, EMP, RP and IPP, attached hereto as Annexes, (to the extent the concern impacts on affected people during construction), and any corrective or preventive actions set forth in a Safeguard Monitoring Report;

(b) make available a budget for all such environmental and social measures;

(c) provide the Employer with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Sub-project that were not considered in the IEE, the EMP, the RP or the IPP; and

(d) fully reinstate pathways, other local infrastructure to at least their pre-project condition upon the completion of construction.

10. Employer's Responsibilities

10.1 All information and/or data to be supplied by the Employer as described in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement shall be deemed to be accurate, except when the Employer expressly states otherwise.

- 10.2 The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.
- 10.3 The Employer shall acquire and pay for all permits, approvals, and/or licenses from all local, state, or national government authorities, or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract, and (c) are specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement.
- 10.4 If requested by the Contractor, the Employer shall use its best endeavors to assist the Contractor in obtaining in a timely and expeditious manner all permits, approvals, and/or licenses necessary for the execution of the Contract from all local, state, or national government authorities, or public service undertakings that such authorities or undertakings require the Contractor or Subcontractors or the personnel of the Contractor or Subcontractors, as the case may be, to obtain.
- 10.5 Unless otherwise specified in the Contract or agreed upon by the Employer and the Contractor, the Employer shall provide sufficient, properly qualified operating and maintenance personnel; shall supply and make available all raw materials, utilities, lubricants, chemicals, catalysts, other materials and facilities; and shall perform all work and services of whatsoever nature, including those required by the Contractor to properly carry out Pre-commissioning, Commissioning, and Guarantee Tests, all in accordance with the provisions of the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement at or before the time specified in the program furnished by the Contractor under GCC Subclause 18.2 hereof and in the manner thereupon specified or as otherwise agreed upon by the Employer and the Contractor.
- 10.6 The Employer shall be responsible for the continued operation of the Facilities after Completion, in accordance with GCC Subclause 24.8, and shall be responsible for facilitating the Guarantee Test(s) for the Facilities, in accordance with GCC Subclause 25.2.
- 10.7 All costs and expenses involved in the performance of the obligations under this GCC Clause 10 shall be the responsibility of the Employer, except those incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with GCC Subclause 25.2.
- 10.8 In the event that the Employer shall be in breach of any of his obligations imposed by the Contract, then the additional cost reasonably incurred by the Contractor in consequence thereof shall be added to the Contract Price.

C. Payment

- 11. Contract Price**
- 11.1 The Contract Price shall be as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.
- 11.2 Unless an adjustment clause is provided for in the SCC, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract.
- 11.3 Subject to GCC Subclauses 9.2, 10.1, and 35 hereof, the Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.
- 12. Terms of Payment**
- 12.1 The Contract Price shall be paid as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement and in the Appendix (Terms and Procedures of Payment) to the Contract Agreement, which also outlines the procedures to be followed in making application for and processing payments.
- 12.2 No payment made by the Employer herein shall be deemed to constitute acceptance by the Employer of the Facilities or any part(s) thereof.
- 12.3 In the event that the Employer fails to make any payment by its respective due date or within the period set forth in the Contract, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate(s) shown in the Appendix (Terms and Procedures of Payment) to the Contract Agreement for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 12.4 The currency or currencies in which payments are made to the Contractor under this Contract shall be specified in the Appendix (Terms and Procedures of Payment) to the Contract Agreement, subject to the general principle that payments will be made in the currency or currencies in which the Contract Price has been stated in the Contractor's bid.
- 13. Securities**
- 13.1 Issuance of Securities
- The Contractor shall provide the securities specified below in favor of the Employer at the times, and in the amount, manner, and form specified below.
- 13.2 Advance Payment Security
- 13.2.1 The Contractor shall, within 28 days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix (Terms and Procedures of Payment) to the Contract Agreement, and in the same currency or currencies.
- 13.2.2 The security shall be in the form provided in the Bidding Documents or in another form acceptable to the Employer. The amount of the security shall be reduced in proportion to the value of the Facilities executed by and paid to the Contractor from time to time, and shall automatically become null and void when the full amount of the advance payment has been recovered by the

Employer. The security shall be returned to the Contractor immediately after its expiration.

13.3 Performance Security

13.3.1 The Contractor shall, within 28 days of the notification of contract award, provide a security for the due performance of the Contract in the amount specified in the SCC.

13.3.2 The security shall be denominated in the currency or currencies of the Contract, or in a freely convertible currency acceptable to the Employer, and shall be in one of the forms of bank guarantees provided in the Bidding Documents, as stipulated by the Employer in the SCC, or in another form acceptable to the Employer.

13.3.3 Unless otherwise specified in the SCC, the security shall be reduced by half on the date of the Operational Acceptance. The Security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate Time for Completion is provided, 540 days after Completion of the Facilities or 365 days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GCC Subclause 27.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GCC Subclause 27.10, is liable for an extended defect liability obligation, the performance security shall be extended for the period and up to the amount specified in the SCC.

14. Taxes and Duties

14.1 Except as otherwise specifically provided in the Contract, the Contractor shall bear and pay all taxes, duties, levies, and charges assessed on the Contractor, its Subcontractors, or their employees by all municipal, state, or national government authorities in connection with the Facilities in and outside of the country where the Site is located.

14.2 Notwithstanding GCC Subclause 14.1 above, the Employer shall bear and promptly pay all customs and import duties as well as other local taxes like, e.g., a value-added tax (VAT), imposed by the law of the country where the Site is located on the Plant specified in Price Schedule No. 1 and that are to be incorporated into the Facilities.

14.3 If any tax exemptions, reductions, allowances, or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavors to enable the Contractor to benefit from any such tax savings to the maximum allowable extent.

14.4 For the purpose of the Contract, it is agreed that the Contract Price specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement is based on the taxes, duties, levies, and charges prevailing at the date 28 days prior to the date of bid submission in the country where the Site is located (hereinafter called "Tax" in this GCC Subclause 14.4). If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of Contract, which was or will be assessed on the

Contractor, Subcontractors, or their employees in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction therefrom, as the case may be, in accordance with GCC Clause 36 hereof.

D. Intellectual Property

- 15. License/Use of Technical Information**
- 15.1 For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and nontransferable license (without the right to sublicense) to the Employer under the patents, utility models, or other industrial property rights owned by the Contractor or by a third party from whom the Contractor has received the right to grant licenses thereunder, and shall also grant to the Employer a nonexclusive and nontransferable right (without the right to sublicense) to use the know-how and other technical information disclosed to the Employer under the Contract. Nothing contained herein shall be construed as transferring ownership of any patent, utility model, trademark, design, copyright, know-how, or other intellectual property right from the Contractor or any third party to the Employer.
- 15.2 The copyright in all drawings, documents, and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 16. Confidential Information**
- 16.1 The Employer and the Contractor shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during, or following termination of the Contract. Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data, and other information it receives from the Employer to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this GCC Clause 16.
- 16.2 The Employer shall not use such documents, data, and other information received from the Contractor for any purpose other than the operation and maintenance of the Facilities. Similarly, the Contractor shall not use such documents, data, and other information received from the Employer for any purpose other than the design, procurement of Plant, construction, or such other work and services as are required for the performance of the Contract.
- 16.3 The obligation of a party under GCC Subclauses 16.1 and 16.2 above, however, shall not apply to that information, which
- (a) now or hereafter enters the public domain through no fault of that party;

- (b) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party hereto; and
 - (c) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 16.4 The above provisions of this GCC Clause 16 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Facilities or any part thereof.
- 16.5 The provisions of this GCC Clause 16 shall survive termination, for whatever reason, of the Contract.

E. Execution of the Facilities

17. Representatives 17.1 Project Manager

If the Project Manager is not named in the Contract, then within 14 days of the Effective Date, the Employer shall appoint and notify the Contractor in writing of the name of the Project Manager. The Employer may from time to time appoint some other person as the Project Manager in place of the person previously so appointed, and shall give notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the Facilities. Such appointment shall only take effect upon receipt of such notice by the Contractor. The Project Manager shall represent and act for the Employer at all times during the performance of the Contract. All notices, instructions, orders, certificates, approvals, and all other communications under the Contract shall be given by the Project Manager, except as herein otherwise provided.

All notices, instructions, information, and other communications given by the Contractor to the Employer under the Contract shall be given to the Project Manager, except as herein otherwise provided.

17.2 Contractor's Representative and Construction Manager

17.2.1 If the Contractor's Representative is not named in the Contract, then within 14 days of the Effective Date, the Contractor shall appoint the Contractor's Representative and shall request the Employer in writing to approve the person so appointed. If the Employer makes no objection to the appointment within 14 days, the Contractor's Representative shall be deemed to have been approved. If the Employer objects to the appointment within 14 days giving the reason therefor, then the Contractor shall appoint a replacement within 14 days of such objection, and the foregoing provisions of this GCC Subclause 17.2.1 shall apply thereto.

17.2.2 The Contractor's Representative shall represent and act for the Contractor at all times during the performance of the Contract and shall give to the Project Manager all the Contractor's notices, instructions, information, and all other communications under the Contract.

All notices, instructions, information, and all other communications given by the Employer or the Project Manager

to the Contractor under the Contract shall be given to the Contractor's Representative or, in its absence, its deputy, except as herein otherwise provided.

The Contractor shall not revoke the appointment of the Contractor's Representative without the Employer's prior written consent, which shall not be unreasonably withheld. If the Employer consents thereto, the Contractor shall appoint some other person as the Contractor's Representative, pursuant to the procedure set out in GCC Subclause 17.2.1.

17.2.3 The Contractor's Representative may, subject to the approval of the Employer which shall not be unreasonably withheld, at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Contractor's Representative, and shall specify the powers, functions, and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Employer and the Project Manager.

Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with this GCC Subclause 17.2.3 shall be deemed to be an act or exercise by the Contractor's Representative.

17.2.4 From the commencement of installation of the Facilities at the Site until Completion, the Contractor's Representative shall appoint a suitable person as the Construction Manager. The Construction Manager shall supervise all work done at the Site by the Contractor and shall be present at the Site throughout normal working hours except when on leave, sick, or absent for reasons connected with the proper performance of the Contract. Whenever the Construction Manager is absent from the Site, the Contractor's Representative or the Construction Manager shall appoint a suitable person to act as the Construction Manager's deputy.

17.2.5 The Employer may by notice to the Contractor object to any representative or person employed by the Contractor in the execution of the Contract who, in the reasonable opinion of the Employer, may behave inappropriately, may be incompetent or negligent, or may commit a serious breach of the Site regulations provided under GCC Subclause 22.4. The Employer shall provide evidence of the same, whereupon the Contractor shall remove such person from the Facilities.

17.2.6 If any representative or person employed by the Contractor is removed in accordance with GCC Subclause 17.2.5, the Contractor shall, where required, promptly appoint a replacement.

18. Work Program 18.1 Contractor's Organization

The Contractor shall supply to the Employer and the Project Manager a chart showing the proposed organization to be established by the Contractor for carrying out work on the Facilities within 21 days of the Effective Date. The chart shall include the identities of the key personnel,

and the curricula vitae of such key personnel to be employed shall be supplied together with the chart. The Contractor shall promptly inform the Employer and the Project Manager in writing of any revision or alteration of such an organization chart.

18.2 Program of Performance

Within 28 days after the Effective Date, the Contractor shall submit to the Project Manager a detailed program of performance of the Contract, made in a form acceptable to the Project Manager and showing the sequence in which it proposes to design, manufacture, transport, assemble, install, and pre-commission the Facilities, as well as the date by which the Contractor reasonably requires that the Employer shall have fulfilled its obligations under the Contract so as to enable the Contractor to execute the Contract in accordance with the program and to achieve Completion, Commissioning, and Acceptance of the Facilities in accordance with the Contract. The program so submitted by the Contractor shall accord with the Time Schedule included in the Appendix (Time Schedule) to the Contract Agreement and any other dates and periods specified in the Contract. The Contractor shall update and revise the program as and when appropriate or when required by the Project Manager, but without modification in the Times for Completion given in the SCC and any extension granted in accordance with GCC Clause 40, and shall submit all such revisions to the Project Manager.

18.3 Progress Report

The Contractor shall monitor progress of all the activities specified in the program referred to in GCC Subclause 18.2 above, and supply a progress report to the Project Manager every month.

The progress report shall be in a form acceptable to the Project Manager and shall indicate: (a) percentage completion achieved compared with the planned percentage completion for each activity; and (b) where any activity is behind the program, giving comments and likely consequences and stating the corrective action being taken.

18.4 Progress of Performance

If at any time the Contractor's actual progress falls behind the program referred to in GCC Subclause 18.2, or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Employer or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the Facilities within the Time for Completion under GCC Subclause 8.2, any extension thereof entitled under GCC Subclause 40.1, or any extended period as may otherwise be agreed upon between the Employer and the Contractor.

18.5 Procedures

The Contract shall be executed in accordance with the Contract Documents including the procedures given in the Forms and Procedures of the Employer's Requirements.

The Contractor may execute the Contract in accordance with its own standard project execution plans and procedures to the extent that they do not conflict with the provisions contained in the Contract.

- 19. Subcontracting**
- 19.1 The Appendix 5 (List of Major Items of Plant and Services and List of Approved Subcontractors) to the Contract Agreement specifies major items of plant and services and a list of approved Subcontractors against each item, including manufacturers. Insofar as no Subcontractors are listed against any such item, the Contractor shall prepare a list of Subcontractors for such item for inclusion in such list. The Contractor may from time to time propose any addition to or deletion from any such list. The Contractor shall submit any such list or any modification thereto to the Employer for its approval in sufficient time so as not to impede the progress of work on the Facilities. Such approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties, or responsibilities under the Contract.
- 19.2 The Contractor shall select and employ its Subcontractors for such major items from those listed in the lists referred to in GCC Subclause 19.1.
- 19.3 For items or parts of the Facilities not specified in the Appendix (List of Major Items of Plant and Services and List of Approved Subcontractors for Major Items) to the Contract Agreement, the Contractor may employ such Subcontractors as it may select, at its discretion.
- 19.4 Each subcontract shall include provisions which would entitle the Employer to require the sub-contract to be assigned to the Employer under GCC 19.5 (if and when applicable), or in event of termination by the Employer under GCC 42.2.
- 19.5 If a Sub-contractor's obligations extend beyond the expiry date of the relevant Defects Liability Period and the Project Manager, prior to that date, instructs the Contractor to assign the benefits of such obligations to the Employer, then the Contractor shall do so.
- 20. Design and Engineering**
- 20.1 Specifications and Drawings
- 20.1.1 The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract, or where not so specified, in accordance with good engineering practice.
- The Contractor shall be responsible for any discrepancies, errors, or omissions in the specifications, drawings, and other technical documents that it has prepared, whether such specifications, drawings, and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors, or omissions are not because of inaccurate information furnished in writing to the Contractor by or on behalf of the Employer.
- 20.1.2 The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification, or other document, or any modification thereof provided or designated by or on behalf of the Employer, by giving a notice of such disclaimer to the Project Manager.
- 20.2 Codes and Standards
- Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date 28 days prior to date of bid submission shall apply unless otherwise

specified. During Contract execution, any changes in such codes and standards shall be applied subject to approval by the Employer and shall be treated in accordance with GCC Clause 39.

20.3 Approval/Review of Technical Documents by Project Manager

20.3.1 The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix (List of Documents for Approval or Review) to the Contract Agreement for its approval or review as specified and in accordance with the requirements of GCC Subclause 18.2 (Program of Performance).

Any part of the Facilities covered by or related to the documents to be approved by the Project Manager shall be executed only after the Project Manager's approval thereof.

GCC Subclauses 20.3.2 through 20.3.7 shall apply to those documents requiring the Project Manager's approval, but not to those furnished to the Project Manager for its review only.

20.3.2 Within 14 days after receipt by the Project Manager of any document requiring the Project Manager's approval in accordance with GCC Subclause 20.3.1, the Project Manager shall either return one copy thereof to the Contractor with its approval endorsed thereon or shall notify the Contractor in writing of its disapproval thereof and the reasons therefor and the modifications that the Project Manager proposes.

If the Project Manager fails to take such action within the said 14 days, then the said document shall be deemed to have been approved by the Project Manager.

20.3.3 The Project Manager shall not disapprove any document, except on the grounds that the document does not comply with the Contract or that it is contrary to good engineering practice. If the Project Manager disapproves a document, he shall specify the reasons for his decision.

20.3.4 If the Project Manager disapproves the document, the Contractor shall modify the document and resubmit it for the Project Manager's approval in accordance with GCC Subclause 20.3.2. If the Project Manager approves the document subject to modification(s), the Contractor shall make the required modification(s), whereupon the document shall be deemed to have been approved.

20.3.5 If any dispute or difference occurs between the Employer and the Contractor in connection with or arising out of the disapproval by the Project Manager of any document and/or any modification(s) thereto that cannot be settled between the parties within a reasonable period, then such dispute or difference may be referred to a Dispute Board for determination in accordance with GCC Subclause 45.3 hereof. If such dispute or difference is referred to a Dispute Board, the Project Manager shall give instructions as to whether and, if so, how, performance of the Contract is to proceed. The Contractor shall proceed with the Contract in accordance with the Project Manager's instructions, provided that if the Dispute Board upholds the Contractor's view on the dispute and if the Employer has not given notice under

Subclause 45.3 hereof, then the Contractor shall be reimbursed by the Employer for any additional costs incurred by reason of such instructions and shall be relieved of such responsibility or liability in connection with the dispute and the execution of the instructions as the Dispute Board shall decide, and the Time for Completion shall be extended accordingly.

20.3.6 The Project Manager's approval, with or without modification of the document furnished by the Contractor, shall not relieve the Contractor of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager.

20.3.7 The Contractor shall not depart from any approved document unless the Contractor has first submitted to the Project Manager an amended document and obtained the Project Manager's approval thereof, pursuant to the provisions of this GCC Subclause 20.3.

If the Project Manager requests any change in any already approved document and/or in any document based thereon, the provisions of GCC Clause 39 shall apply to such request.

21. Procurement

21.1 Materials

Subject to GCC Subclause 14.2, the Contractor shall procure and transport all materials in an expeditious and orderly manner to the Site.

21.2 Employer-Supplied Materials

If the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement provides that the Employer shall furnish any specific items to the Contractor, the following provisions shall apply:

21.2.1 The Employer shall, at its own risk and expense, transport each item to the place on or near the Site as agreed upon by the parties and make such item available to the Contractor at the time specified in the program furnished by the Contractor, pursuant to GCC Subclause 18.2, unless otherwise mutually agreed.

21.2.2 Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect, or default. The Employer shall immediately remedy any shortage, defect, or default, or the Contractor shall, if practicable and possible, at the request of the Employer, remedy such shortage, defect, or default at the Employer's cost and expense. After inspection, such item shall fall under the care, custody, and control of the Contractor. The provision of this GCC Subclause 21.2.2 shall apply to any item supplied to remedy any such shortage or default or to substitute for any defective item, or shall apply to defective items that have been repaired.

21.2.3 The foregoing responsibilities of the Contractor and its obligations of care, custody, and control shall not relieve the Employer of liability for any undetected shortage, defect, or default, nor place the Contractor under any liability for any such shortage, defect or default whether under GCC Clause 27 or under any other provision of Contract.

21.3 Transportation

21.3.1 The Contractor shall at its own risk and expense transport all the materials and the Contractor's Equipment to the Site by the mode of transport that the Contractor judges most suitable under all the circumstances.

21.3.2 Unless otherwise provided in the Contract, the Contractor shall be entitled to select any safe mode of transport operated by any person to carry the materials and the Contractor's Equipment.

21.3.3 Upon dispatch of each shipment of materials and the Contractor's Equipment, the Contractor shall notify the Employer by telex, cable, facsimile, or electronic means, of the description of the materials and of the Contractor's Equipment, the point and means of dispatch, and the estimated time and point of arrival in the country where the Site is located, if applicable, and at the Site. The Contractor shall furnish the Employer with relevant shipping documents to be agreed upon between the parties.

21.3.4 The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the materials and the Contractor's Equipment to the Site. The Employer shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any claim for damage to roads, bridges, or any other traffic facilities that may be caused by the transport of the materials and the Contractor's Equipment to the Site.

21.4 Customs Clearance

The Contractor shall, at its own expense, handle all imported materials and Contractor's Equipment at the point(s) of import and shall handle any formalities for customs clearance, subject to the Employer's obligations under GCC Subclause 14.2, provided that if applicable laws or regulations require any application or act to be made by or in the name of the Employer, the Employer shall take all necessary steps to comply with such laws or regulations. In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the Time for Completion, pursuant to GCC Clause 40.

22. Installation

22.1 Setting Out/Supervision

22.1.1 Benchmark

(a) The Contractor shall be responsible for the true and proper setting-out of the Facilities in relation to bench marks, reference marks, and lines provided to it in writing by or on behalf of the Employer.

(b) If, at any time during the progress of installation of the Facilities, any error shall appear in the position, level, or alignment of the Facilities, the Contractor shall forthwith notify the Project Manager of such error and, at its own expense, immediately rectify such error to the reasonable satisfaction of the Project Manager. If such error is based on incorrect data provided in writing by or on behalf of the

Employer, the expense of rectifying the same shall be borne by the Employer.

22.1.2 Contractor's Supervision

The Contractor shall give or provide all necessary superintendence during the installation of the Facilities, and the Construction Manager or its deputy shall be constantly on the Site to provide full-time superintendence of the installation. The Contractor shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.

22.2 Labor

22.2.1 Engagement of Staff and Labor

- (a) Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, housing, feeding, and transport.
- (b) The Contractor shall provide and employ on the Site in the installation of the Facilities such skilled, semi-skilled, and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged to use local labor that has the necessary skills.
- (c) The Contractor shall be responsible for obtaining all necessary permit(s) and/or visa(s) from the appropriate authorities for the entry of all labor and personnel to be employed on the Site into the country where the Site is located. The Employer will, if requested by the Contractor, use his best endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.
- (d) The Contractor shall at its own expense provide the means of repatriation to all of its and its Subcontractor's personnel employed on the Contract at the Site to the place where they were recruited or to their domicile. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event that the Contractor defaults in providing such means of transportation and temporary maintenance, the Employer may provide the same to such personnel and recover the cost of doing so from the Contractor.
- (e) The Contractor shall prioritize employment of women and the poor to at least the percentage of the labor force as set out in the Gender Action Plan (GAP).
- (f) The Contractor shall maximize the employment of local people who meet the job and efficiency requirements for sub-project construction, operation and maintenance and in that regard, not discriminate against people based on age, provided they are capable of performing the work.

- (g) The Contractor shall advertise labor requirements in a timely manner prior to recruitment, in a venue that can reasonably be expected to be seen by interested men and women, regardless of age and ethnicity.
- (h) The Contractor shall provide workers with a written contract;
- (i) The Contractor shall provide workers with adequate on-the-job training and safety training.

22.2.2 Persons in the Service of Employer

The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Employer's Personnel.

22.2.3 Labor Laws

- (a) The Contractor shall comply with all the relevant labor Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration, and emigration, and shall allow them all their legal rights.
- (b) The Contractor shall at all times during the progress of the Contract use its best endeavors to prevent any unlawful, riotous, or disorderly conduct or behavior by or amongst its employees and the labor of its Subcontractors.
- (c) The Contractor shall, in all dealings with its labor and the labor of its Subcontractors currently employed on or connected with the Contract, pay due regard to all recognized festivals, official holidays, religious, or other customs and all local laws and regulations pertaining to the employment of labor.

22.2.4 Rates of Wages and Conditions of Labor

- (a) The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by employers whose trade or industry is similar to that of the Contractor.
- (b) The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in the Country in respect of such of their salaries, wages, and allowances as are chargeable under the Laws for the time being in force, and the Contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such Laws.
- (c) The Contractor shall provide equal pay for equal work, regardless of gender, age, ethnicity or any other factors and shall provide timely payment of wages.

22.2.5 Working Hours

- (a) No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the SCC, unless
 - (i) otherwise stated in the Contract;
 - (ii) the Project Manager gives consent; or
 - (iii) the work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Project Manager.
- (b) If and when the Contractor considers it necessary to carry out work at night or on public holidays so as to meet the Time for Completion and requests the Project Manager's consent thereto, the Project Manager shall not unreasonably withhold such consent.
- (c) This Subclause shall not apply to any work which is customarily carried out by rotary or double shifts.

22.2.6 Facilities for Staff and Labor

- (a) Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification.
- (b) The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.

22.2.7 Health and Safety

- (a) The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay, and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
- (b) The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the performance of the Contract, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
- (c) The Contractor shall send to the Project Manager, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety, and welfare of persons, and

damage to property, as the Project Manager may reasonably require.

22.2.8 Funeral Arrangements

In the event of the death of any of the Contractor's personnel or accompanying members of their families, the Contractor shall be responsible for making the appropriate arrangements for their return or burial, unless otherwise specified in the SCC.

22.2.9 Records of Contractor's Personnel

The Contractor shall keep accurate records of the Contractor's personnel, including the number of each class of Contractor's Personnel on the Site and the names, ages, gender, hours worked, and wages paid to all workers. These records shall be summarized on a monthly basis in a form approved by the Project Manager and shall be available for inspection by the Project Manager until the Contractor has completed all work. The records should also indicate the ethnicity of the Contractor's personnel and should be included in summary form in the project performance management system.

22.2.10 Supply of Foodstuff

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

22.2.11 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

22.2.12 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce their danger to health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

22.2.13 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give barter, or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift barter, or disposal by Contractor's Personnel.

22.2.14 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

22.2.15 Prohibition of All Forms of Forced or Compulsory Labor

The contractor shall not employ "forced or compulsory labor" in any form. "Forced or compulsory labor" consists of all work or

service, not voluntarily performed, that is extracted from an individual under threat of force or penalty.

22.2.16 Prohibition of Harmful Child Labor

The Contractor shall not employ any child to perform any work that is economically exploitative, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. "Child" means a child below eighteen (18) years old.

22.2.17 Gender and Development

The Contractor shall comply with the measures set forth in the Gender Action Plan.

22.3 Contractor's Equipment

22.3.1 All Contractor's Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without the Project Manager's consent that such Contractor's Equipment is no longer required for the execution of the Contract.

22.3.2 Unless otherwise specified in the Contract, upon completion of the Facilities, the Contractor shall remove from the Site all Equipment brought by the Contractor onto the Site and any surplus materials remaining thereon.

22.3.3 The Employer will, if requested, use its best endeavors to assist the Contractor in obtaining any local, state or national government permission required by the Contractor for the export of the Contractor's Equipment imported by the Contractor for use in the execution of the Contract that is no longer required for the execution of the Contract.

22.4 Site Regulations and Safety

The Employer and the Contractor shall establish Site regulations setting out the rules to be observed in the execution of the Contract at the Site and shall comply therewith. The Contractor shall prepare and submit to the Employer, with a copy to the Project Manager, proposed Site regulations for the Employer's approval, which approval shall not be unreasonably withheld.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Facilities, gate control, sanitation, medical care, and fire prevention.

22.5 Opportunities for Other Contractors

22.5.1 The Contractor shall, upon written request from the Employer or the Project Manager, give all reasonable opportunities for carrying out the work to any other contractors employed by the Employer on or near the Site.

22.5.2 If the Contractor, upon written request from the Employer or the Project Manager, makes available to other contractors any roads or ways the maintenance for which the Contractor is responsible, permits the use by such other contractors of the Contractor's Equipment, or provides any other service of

whatsoever nature for such other contractors, the Employer shall fully compensate the Contractor for any loss or damage caused or occasioned by such other contractors in respect of any such use or service, and shall pay to the Contractor reasonable remuneration for the use of such equipment or the provision of such services.

22.5.3 The Contractor shall also so arrange to perform its work as to minimize, to the extent possible, interference with the work of other contractors. The Project Manager shall determine the resolution of any difference or conflict that may arise between the Contractor and other contractors and the workers of the Employer in regard to their work.

22.5.4 The Contractor shall notify the Project Manager promptly of any defects in the other Contractors' work that come to its notice, and that could affect the Contractor's work. The Project Manager shall determine the corrective measures, if any, required to rectify the situation after inspection of the Facilities. Decisions made by the Project Manager shall be binding on the Contractor.

22.6 Emergency Work

If, by reason of an emergency arising in connection with and during the execution of the Contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the Facilities, the Contractor shall immediately carry out such work.

If the Contractor is unable or unwilling to do such work immediately, the Employer may do or cause such work to be done as the Employer may determine is necessary in order to prevent damage to the Facilities. In such event the Employer shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefor. If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer. Otherwise, the cost of such remedial work shall be borne by the Employer.

22.7 Site Clearance

22.7.1 Site Clearance in Course of Performance

In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store, or remove any surplus materials, clear away any wreckage, rubbish, or temporary works from the Site, and remove any Contractor's Equipment no longer required for execution of the Contract.

22.7.2 Clearance of Site after Completion

After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish, and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.

22.8 Watching and Lighting

The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.

23. Test and Inspection

23.1 The Contractor shall at its own expense carry out at the place of manufacture and/or on the Site all such tests and/or inspections of the Plant and any part of the Facilities as are specified in the Contract.

23.2 The Employer and the Project Manager or their designated representatives shall be entitled to attend the aforesaid test and/or inspection, provided that the Employer shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

23.3 Whenever the Contractor is ready to carry out any such test and/or inspection, the Contractor shall give a reasonable advance notice of such test and/or inspection and of the place and time thereof to the Project Manager. The Contractor shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Employer and the Project Manager or their designated representatives to attend the test and/or inspection.

23.4 The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection.

If the Employer or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof.

23.5 The Project Manager may require the Contractor to carry out any test and/or inspection not required by the Contract, provided that the Contractor's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of work on the Facilities and/or the Contractor's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Completion and the other obligations so affected.

23.6 If any Plant or any part of the Facilities fails to pass any test and/or inspection, the Contractor shall either rectify or replace such Plant or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under GCC Subclause 23.3.

23.7 If any dispute or difference of opinion shall arise between the parties in connection with or arising out of the test and/or inspection of the Plant or part of the Facilities that cannot be settled between the parties within a reasonable period of time, it may be referred to a Dispute Board for determination in accordance with GCC Subclause 45.3.

23.8 The Contractor shall afford the Employer and the Project Manager, at the Employer's expense, access at any reasonable time to any place where the Plant are being manufactured or the Facilities are being installed, in order to inspect the progress and the manner of manufacture

or installation, provided that the Project Manager shall give the Contractor a reasonable prior notice.

- 23.9 The Contractor agrees that neither the execution of a test and/or inspection of Plant or any part of the Facilities, nor the attendance by the Employer or the Project Manager, nor the issue of any test certificate pursuant to GCC Subclause 23.4, shall release the Contractor from any other responsibilities under the Contract.
- 23.10 No part of the Facilities or foundations shall be covered up on the Site without the Contractor carrying out any test and/or inspection required under the Contract. The Contractor shall give a reasonable notice to the Project Manager whenever any such parts of the Facilities or foundations are ready or about to be ready for test and/or inspection; such test and/or inspection and notice thereof shall be subject to the requirements of the Contract.
- 23.11 The Contractor shall uncover any part of the Facilities or foundations, or shall make openings in or through the same as the Project Manager may from time to time require at the Site, and shall reinstate and make good such part or parts.

If any parts of the Facilities or foundations have been covered up at the Site after compliance with the requirement of GCC Subclause 23.10 and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating, and making good the same shall be borne by the Employer, and the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been delayed or impeded in the performance of any of its obligations under the Contract.

24. Completion of the Facilities

- 24.1 As soon as the Facilities or any part thereof has, in the opinion of the Contractor, been completed operationally and structurally and put in a tight and clean condition as specified in the Employer's Requirements, excluding minor items not materially affecting the operation or safety of the Facilities, the Contractor shall so notify the Employer in writing.
- 24.2 Within 7 days after receipt of the notice from the Contractor under GCC Subclause 24.1, the Employer shall supply the operating and maintenance personnel specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement for Pre-commissioning of the Facilities or any part thereof.
- Pursuant to the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement, the Employer shall also provide, within the said 7-day period, the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services, and other matters required for Pre-commissioning of the Facilities or any part thereof.
- 24.3 As soon as reasonably practicable after the operating and maintenance personnel have been supplied by the Employer and the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services, and other matters have been provided by the Employer in accordance with GCC Subclause 24.2, the Contractor shall commence Pre-commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GCC Subclause 25.5.
- 24.4 As soon as all works in respect of Pre-commissioning are completed and, in the opinion of the Contractor, the Facilities or any part thereof is

ready for Commissioning, the Contractor shall so notify the Project Manager in writing.

- 24.5 The Project Manager shall, within 14 days after receipt of the Contractor's notice under GCC Subclause 24.4, either issue a Completion Certificate in the form specified in the Employer's Requirements (Forms and Procedures), stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's notice under GCC Subclause 24.4, or notify the Contractor in writing of any defects and/or deficiencies.

If the Project Manager notifies the Contractor of any defects and/or deficiencies, the Contractor shall then correct such defects and/or deficiencies, and shall repeat the procedure described in GCC Subclause 24.4.

If the Project Manager is satisfied that the Facilities or that part thereof have reached Completion, the Project Manager shall, within 7 days after receipt of the Contractor's repeated notice, issue a Completion Certificate stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's repeated notice.

If the Project Manager is not so satisfied, then it shall notify the Contractor in writing of any defects and/or deficiencies within 7 days after receipt of the Contractor's repeated notice, and the above procedure shall be repeated.

- 24.6 If the Project Manager fails to issue the Completion Certificate and fails to inform the Contractor of any defects and/or deficiencies within 14 days after receipt of the Contractor's notice under GCC Subclause 24.4 or within 7 days after receipt of the Contractor's repeated notice under GCC Subclause 24.5, or if the Employer makes use of the Facilities or part thereof, then the Facilities or that part thereof shall be deemed to have reached Completion as of the date of the Contractor's notice or repeated notice, or as of the Employer's use of the Facilities, as the case may be.
- 24.7 As soon as possible after Completion, the Contractor shall complete all outstanding minor items so that the Facilities are fully in accordance with the requirements of the Contract, failing which the Employer will undertake such completion and deduct the costs thereof from any monies owing to the Contractor.
- 24.8 Upon Completion, the Employer shall be responsible for the care and custody of the Facilities or the relevant part thereof, together with the risk of loss or damage thereto, and shall thereafter take over the Facilities or the relevant part thereof.

25. Commissioning and Operational Acceptance

25.1 Commissioning

25.1.1 Commissioning of the Facilities or any part thereof shall be commenced by the Contractor immediately after issue of the Completion Certificate by the Project Manager, pursuant to GCC Subclause 24.5, or immediately after the date of the deemed Completion, under GCC Subclause 24.6.

25.1.2 The Employer shall supply the operating and maintenance personnel and all raw materials, utilities, lubricants, chemicals, catalysts, facilities, services, and other matters required for Commissioning.

25.1.3 In accordance with the requirements of the Contract, the Contractor's and Project Manager's advisory personnel shall attend the Commissioning, including the Guarantee Test, and shall advise and assist the Employer.

25.2 Guarantee Test

25.2.1 Subject to GCC Subclause 25.5, the Guarantee Test and repeats thereof shall be conducted by the Contractor during Commissioning of the Facilities or the relevant part thereof to ascertain whether the Facilities or the relevant part can attain the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement. The Employer shall promptly provide the Contractor with such information as the Contractor may reasonably require in relation to the conduct and results of the Guarantee Test and any repeats thereof.

25.2.2 If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof cannot be successfully completed within the period from the date of Completion specified in the SCC or any other period agreed upon by the Employer and the Contractor, the Contractor shall be deemed to have fulfilled its obligations with respect to the Functional Guarantees, and GCC Subclauses 28.2 and 28.3 shall not apply.

25.3 Operational Acceptance

25.3.1 Subject to GCC Subclause 25.4 below, Operational Acceptance shall occur in respect of the Facilities or any part thereof when

- (a) the Guarantee Test has been successfully completed and the Functional Guarantees are met; or
- (b) the Guarantee Test has not been successfully completed or has not been carried out for reasons not attributable to the Contractor within the period from the date of Completion specified in the SCC, or any other agreed upon period as specified in GCC Subclause 25.2.2 above; or
- (c) the Contractor has paid the liquidated damages specified in GCC Subclause 28.3 hereof; and
- (d) any minor items mentioned in GCC Subclause 24.7 hereof relevant to the Facilities or that part thereof have been completed.

25.3.2 At any time after any of the events set out in GCC Subclause 25.3.1 have occurred, the Contractor may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate in the form provided in the Employer's Requirements (Forms and Procedures) in respect of the Facilities or the part thereof specified in such notice as of the date of such notice.

25.3.3 The Project Manager shall, after consultation with the Employer, and within 7 days after receipt of the Contractor's notice, issue an Operational Acceptance Certificate.

25.3.4 If within 7 days after receipt of the Contractor's notice, the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Contractor in writing of the justifiable reasons

why the Project Manager has not issued the Operational Acceptance Certificate, the Facilities or the relevant part thereof shall be deemed to have been accepted as of the date of the Contractor's said notice.

25.4 Partial Acceptance

25.4.1 If the Contract specifies that Completion and Commissioning shall be carried out in respect of parts of the Facilities, the provisions relating to Completion and Commissioning including the Guarantee Test shall apply to each such part of the Facilities individually, and the Operational Acceptance Certificate shall be issued accordingly for each such part of the Facilities.

25.4.2 If a part of the Facilities comprises facilities such as buildings, for which no Commissioning or Guarantee Test is required, then the Project Manager shall issue the Operational Acceptance Certificate for such facility when it attains Completion, provided that the Contractor shall thereafter complete any outstanding minor items that are listed in the Operational Acceptance Certificate.

25.5 Delayed Pre-Commissioning and/or Guarantee Test

25.5.1 In the event that the Contractor is unable to proceed with the Pre-commissioning of the Facilities pursuant to Subclause 24.3, or with the Guarantee Test pursuant to Subclause 25.2, for reasons attributable to the Employer either on account of non availability of other facilities under the responsibilities of other contractor(s), or for reasons beyond the Employer's control, the provisions leading to "deemed" completion of activities such as Completion, pursuant to GCC Subclause 24.6, and Operational Acceptance, pursuant to GCC Subclause 25.3.4, and Contractor's obligations regarding Defect Liability Period, pursuant to GCC Subclause 27.2, Functional Guarantee, pursuant to GCC Clause 28, and Care of Facilities, pursuant to GCC Clause 32, and GCC Clause 41.1, Suspension, shall not apply. In this case, the following provisions shall apply.

25.5.2 When the Contractor is notified by the Project Manager that he will be unable to proceed with the activities and obligations pursuant to above Subclause 25.5.1, the Contractor shall be entitled to the following:

- (a) the Time of Completion shall be extended for the period of suspension without imposition of liquidated damages pursuant to GCC Subclause 26.2;
- (b) payments due to the Contractor in accordance with the provision specified in the Appendix (Terms and Procedures of Payment) to the Contract Agreement, which would not have been payable in normal circumstances due to noncompletion of the subject activities, shall be released to the Contractor against submission of a security in the form of a bank guarantee of equivalent amount acceptable to the Employer, and which shall become null and void when the Contractor will have complied with its obligations regarding those payments, subject to the provision of Subclause 25.5.3 below;

- (c) the expenses towards the above security and extension of other securities under the contract, of which validity needs to be extended, shall be reimbursed to the Contractor by the Employer;
- (d) the additional charges towards the care of the Facilities pursuant to GCC Subclause 32.1 shall be reimbursed to the Contractor by the Employer for the period between the notification mentioned above and the notification mentioned in Subclause 25.5.4 below. The provision of GCC Subclause 33.2 shall apply to the Facilities during the same period.

25.5.3 In the event that the period of suspension under above Subclause 25.5.1 actually exceeds 180 days, the Employer and Contractor shall mutually agree to any additional compensation payable to the Contractor.

25.5.4 When the Contractor is notified by the Project Manager that the plant is ready for Pre-commissioning, the Contractor shall proceed without delay in performing all the specified activities and obligations under the contract.

F. Guarantees and Liabilities

26. Completion Time Guarantee

26.1 The Contractor guarantees that it shall attain Completion of the Facilities (or a part for which a separate time for completion is specified) within the Time for Completion specified in the SCC pursuant to GCC Subclause 8.2, or within such extended time to which the Contractor shall be entitled under GCC Clause 40 hereof.

26.2 If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion or any extension thereof under GCC Clause 40, the Contractor shall pay to the Employer liquidated damages in the amount specified in the SCC as a percentage rate of the Contract Price or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount specified as "Maximum" in the SCC as a percentage rate of the Contract Price. Once the "Maximum" is reached, the Employer may consider termination of the Contract, pursuant to GCC Subclause 42.2.2.

Such payment shall completely satisfy the Contractor's obligation to attain Completion of the Facilities or the relevant part thereof within the Time for Completion or any extension thereof under GCC Clause 40. The Contractor shall have no further liability whatsoever to the Employer in respect thereof.

However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Facilities or from any other obligations and liabilities of the Contractor under the Contract.

Save for liquidated damages payable under this GCC Subclause 26.2, the failure by the Contractor to attain any milestone or other act, matter or thing by any date specified in the Appendix (Time Schedule) to the Contract Agreement and/or other program of work prepared pursuant to

GCC Subclause 18.2 shall not render the Contractor liable for any loss or damage thereby suffered by the Employer.

- 26.3 If the Contractor attains Completion of the Facilities or any part thereof before the Time for Completion or any extension thereof under GCC Clause 40, the Employer shall pay to the Contractor a bonus in the amount specified in the SCC. The aggregate amount of such bonus shall in no event exceed the amount specified as "Maximum" in the SCC.

27. Defect Liability

- 27.1 The Contractor warrants that the Facilities or any part thereof shall be free from defects in the design, engineering, materials, and workmanship of the Plant supplied and of the work executed.

- 27.2 The Defect Liability Period shall be 540 days from the date of Completion of the Facilities (or any part thereof) or 1 year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, unless specified otherwise in the SCC pursuant to GCC Subclause 27.10.

If during the Defect Liability Period any defect should be found in the design, engineering, materials, and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Employer regarding appropriate remedying of the defects, and at its cost, repair, replace, or otherwise make good as the Contractor shall determine at its discretion, such defect as well as any damage to the Facilities caused by such defect. The Contractor shall not be responsible for the repair, replacement, or making good of any defect or of any damage to the Facilities arising out of or resulting from any of the following causes:

- (a) improper operation or maintenance of the Facilities by the Employer,
- (b) operation of the Facilities outside specifications provided in the Contract, or
- (c) normal wear and tear.

- 27.3 The Contractor's obligations under this GCC Clause 27 shall not apply to:

- (a) any materials that are supplied by the Employer under GCC Subclause 21.2, are normally consumed in operation, or have a normal life shorter than the Defect Liability Period stated herein;
- (b) any designs, specifications or other data designed, supplied, or specified by or on behalf of the Employer or any matters for which the Contractor has disclaimed responsibility herein; or
- (c) any other materials supplied or any other work executed by or on behalf of the Employer, except for the work executed by the Employer under GCC Subclause 27.7.

- 27.4 The Employer shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect any such defect.

- 27.5 The Employer shall afford the Contractor all necessary access to the Facilities and the Site to enable the Contractor to perform its obligations under this GCC Clause 27.

The Contractor may, with the consent of the Employer, remove from the Site any Plant or any part of the Facilities that are defective if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.

- 27.6 If the repair, replacement or making good is of such a character that it may affect the efficiency of the Facilities or any part thereof, the Employer may give to the Contractor a notice requiring that tests of the defective part of the Facilities shall be made by the Contractor immediately upon completion of such remedial work, whereupon the Contractor shall carry out such tests.

If such part fails the tests, the Contractor shall carry out further repair, replacement or making good, as the case may be, until that part of the Facilities passes such tests. The tests shall be agreed upon by the Employer and the Contractor.

- 27.7 If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Facilities caused by such defect within a reasonable time (which shall in no event be considered to be less than 15 days), the Employer may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Employer in connection therewith shall be paid to the Employer by the Contractor or may be deducted by the Employer from any monies due the Contractor or claimed under the Performance Security.

- 27.8 If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.

- 27.9 Except as provided in GCC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design, or engineering, or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, criminal, or willful action of the Contractor.

- 27.10 In addition, any such component of the Facilities and during the period of time as may be specified in the SCC shall be subject to an extended Defect Liability Period. Such obligation of the Contractor shall be in addition to the Defect Liability Period specified under GCC Subclause 27.2.

28. Functional Guarantees

- 28.1 The Contractor guarantees that during the Guarantee Test, the Facilities and all parts thereof shall attain the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement, subject to, and upon the conditions therein specified.

- 28.2 If, for reasons attributable to the Contractor, the minimum level of the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement are not met either in whole or in part, the Contractor shall at its cost and expense make such changes, modifications, and/or additions to the Plant or any part thereof as may be necessary to meet at least the minimum level of such Guarantees. The Contractor shall notify the Employer upon completion of the necessary changes, modifications, and/or additions, and shall request

the Employer to repeat the Guarantee Test until the minimum level of the Guarantees has been met. If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Employer may consider termination of the Contract, pursuant to GCC Subclause 42.2.2.

- 28.3 If, for reasons attributable to the Contractor, the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in the said Appendix to the Contract Agreement is met, the Contractor shall, at the Contractor's option, either
- (a) make such changes, modifications, and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense, and shall request the Employer to repeat the Guarantee Test or
 - (b) pay liquidated damages to the Employer in respect of the failure to meet the Functional Guarantees in accordance with the provisions in the Appendix (Functional Guarantees) to the Contract Agreement.
- 28.4 The payment of liquidated damages under GCC Subclause 28.3, up to the limitation of liability specified in the Appendix (Functional Guarantees) to the Contract Agreement, shall completely satisfy the Contractor's guarantees under GCC Subclause 28.3, and the Contractor shall have no further liability whatsoever to the Employer in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Project Manager shall issue the Operational Acceptance Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.

29. Patent Indemnity

- 29.1 The Contractor shall, subject to the Employer's compliance with GCC Subclause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions, or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located, and (b) the sale of the products produced by the Facilities in any country.

Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Contractor, pursuant to the Contract Agreement.

- 29.2 If any proceedings are brought or any claim is made against the Employer arising out of the matters referred to in GCC Subclause 29.1, the Employer shall promptly give the Contractor a notice thereof, and the Contractor may at its own expense and in the Employer's name

conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

If the Contractor fails to notify the Employer within 28 days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the 28-day period, the Employer shall make no admission that may be prejudicial to the defense of any such proceedings or claim.

The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.

- 29.3 The Employer shall indemnify and hold harmless the Contractor and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Contractor may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Employer.

30. Limitation of Liability

- 30.1 Except in cases of criminal negligence or willful misconduct,
- (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer, and
 - (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed a multiple of the Contract Price specified in the SCC or, if a multiple is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.

G. Risk Distribution

31. Transfer of Ownership

- 31.1 Ownership of the Plant (including spare parts) to be imported into the country where the Site is located shall be transferred to the Employer upon loading on to the mode of transport to be used to convey the Plant from the country of origin to that country.
- 31.2 Ownership of the Plant (including spare parts) procured in the country where the Site is located shall be transferred to the Employer when the Plant are brought on to the Site.

- 31.3 Ownership of the Contractor's Equipment used by the Contractor and its Subcontractors in connection with the Contract shall remain with the Contractor or its Subcontractors.
- 31.4 Ownership of any Plant in excess of the requirements for the Facilities shall revert to the Contractor upon Completion of the Facilities or at such earlier time when the Employer and the Contractor agree that the Plant in question are no longer required for the Facilities.
- 31.5 Notwithstanding the transfer of ownership of the Plant, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the Contractor pursuant to GCC Clause 32 (Care of Facilities) hereof until Completion of the Facilities or the part thereof in which such Plant are incorporated.

32. Care of Facilities

- 32.1 The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of Completion of the Facilities pursuant to GCC Clause 24 or, where the Contract provides for Completion of the Facilities in parts, until the date of Completion of the relevant part, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period. The Contractor shall also be responsible for any loss or damage to the Facilities caused by the Contractor or its Subcontractors in the course of any work carried out, pursuant to GCC Clause 27. Notwithstanding the foregoing, the Contractor shall not be liable for any loss or damage to the Facilities or that part thereof caused by reason of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Subclauses 32.2 and 38.1.
- 32.2 If any loss or damage occurs to the Facilities or any part thereof or to the Contractor's temporary facilities by reason of
 - (a) insofar as they relate to the country where the Site is located, nuclear reaction, nuclear radiation, radioactive contamination, pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced contractor could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance, including War Risks and Political Risks, taken out under GCC Clause 34 hereof; or
 - (b) any use or occupation by the Employer or any third party other than a Subcontractor, authorized by the Employer of any part of the Facilities; or
 - (c) any use of or reliance upon any design, data, or specification provided or designated by or on behalf of the Employer, or any such matter for which the Contractor has disclaimed responsibility herein,

the Employer shall pay to the Contractor all sums payable in respect of the Facilities executed, notwithstanding that the same be lost, destroyed, or damaged, and will pay to the Contractor the replacement value of all temporary facilities and all parts thereof lost, destroyed, or damaged. If the Employer requests the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the

Contractor shall make good the same at the cost of the Employer in accordance with GCC Clause 39. If the Employer does not request the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Employer shall either request a change in accordance with GCC Clause 39, excluding the performance of that part of the Facilities thereby lost, destroyed or damaged, or, where the loss or damage affects a substantial part of the Facilities, the Employer shall terminate the Contract pursuant to GCC Subclause 42.1 hereof.

- 32.3 The Contractor shall be liable for any loss of or damage to any Contractor's Equipment, or any other property of the Contractor used or intended to be used for purposes of the Facilities, except (i) as mentioned in GCC Subclause 32.2 with respect to the Contractor's temporary facilities, and (ii) where such loss or damage arises by reason of any of the matters specified in GCC Subclauses 32.2 (b) and (c) and 38.1.
- 32.4 With respect to any loss or damage caused to the Facilities or any part thereof or to the Contractor's Equipment by reason of any of the matters specified in GCC Subclause 38.1, the provisions of GCC Subclause 38.3 shall apply.

**33. Loss of or
Damage to
Property;
Accident or Injury
to Workers;
Indemnification**

- 33.1 Subject to GCC Subclause 33.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions, or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property other than the Facilities whether accepted or not, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers, or agents, except any injury, death, or property damage caused by the negligence of the Employer, its contractors, employees, officers, or agents.

- 33.2 If any proceedings are brought or any claim is made against the Employer that might subject the Contractor to liability under GCC Subclause 33.1, the Employer shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Employer's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

If the Contractor fails to notify the Employer within 28 days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the 28-day period, the Employer shall make no admission that may be prejudicial to the defense of any such proceedings or claim.

The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.

- 33.3 The Employer shall indemnify and hold harmless the Contractor and its employees, officers, and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over, that is caused by fire, explosion, or any other perils, in excess of the amount recoverable from insurances procured under GCC

Clause 34, provided that such fire, explosion, or other perils were not caused by any act or failure of the Contractor.

- 33.4 The party entitled to the benefit of an indemnity under this GCC Clause 33 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the party fails to take such measures, the other party's liabilities shall be correspondingly reduced.

34. Insurance

- 34.1 To the extent specified in the Appendix (Insurance Requirements) to the Contract Agreement, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.

(a) Cargo Insurance During Transport

Covering loss or damage occurring while in transit from the Contractor's or Subcontractor's works or stores until arrival at the Site, to the Plant (including spare parts therefor) and to the Contractor's Equipment.

(b) Installation All Risks Insurance

Covering physical loss or damage to the Facilities at the Site, occurring prior to Completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.

(c) Third Party Liability Insurance

Covering bodily injury or death suffered by third parties including the Employer's personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.

(d) Automobile Liability Insurance

Covering use of all vehicles used by the Contractor or its Subcontractors, whether or not owned by them, in connection with the execution of the Contract.

(e) Workers' Compensation

In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.

(f) Employer's Liability

In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.

(g) Other Insurances

Such other insurances as may be specifically agreed upon by the parties hereto as listed in the Appendix (Insurance Requirements) to the Contract Agreement.

- 34.2 The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GCC Subclause 34.1, except for the Third Party Liability, Workers' Compensation, and Employer's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GCC Subclause 34.1 except for the Cargo Insurance During Transport, Workers' Compensation, and Employer's Liability Insurances. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.
- 34.3 The Contractor shall, in accordance with the provisions of the Appendix (Insurance Requirements) to the Contract Agreement, deliver to the Employer certificates of insurance or copies of the insurance policies as evidence that the required policies are in full force and effect. The certificates shall provide that no less than 21 days' notice shall be given to the Employer by insurers prior to cancellation or material modification of a policy.
- 34.4 The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Contractor.
- 34.5 The Employer shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix (Insurance Requirements) to the Contract Agreement, in the sums and with the deductibles and other conditions specified in the said Appendix. The Contractor and the Contractor's Subcontractors shall be named as co-insureds under all such policies. All insurers' rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies. The Employer shall deliver to the Contractor satisfactory evidence that the required insurances are in full force and effect. The policies shall provide that not less than 21 days' notice shall be given to the Contractor by all insurers prior to any cancellation or material modification of the policies. If so requested by the Contractor, the Employer shall provide copies of the policies taken out by the Employer under this GCC Subclause 34.5.
- 34.6 If the Contractor fails to take out and/or maintain in effect the insurances referred to in GCC Subclause 34.1, the Employer may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Contractor under the Contract any premium that the Employer shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor. If the Employer fails to take out and/or maintain in effect the insurances referred to in GCC 34.5, the Contractor may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Employer under the Contract any premium that the Contractor shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Employer. If the Contractor fails to or is unable to take out and maintain in effect any such insurances, the Contractor shall nevertheless have no liability or responsibility towards the Employer, and the Contractor shall have full recourse against the Employer for any and all liabilities of the Employer herein.

34.7 Unless otherwise provided in the Contract, the Contractor shall prepare and conduct all and any claims made under the policies effected by it pursuant to this GCC Clause 34, and all monies payable by any insurers shall be paid to the Contractor. The Employer shall give to the Contractor all such reasonable assistance as may be required by the Contractor. With respect to insurance claims in which the Employer's interest is involved, the Contractor shall not give any release or make any compromise with the insurer without the prior written consent of the Employer. With respect to insurance claims in which the Contractor's interest is involved, the Employer shall not give any release or make any compromise with the insurer without the prior written consent of the Contractor.

35. Unforeseen Conditions

35.1 If, during the execution of the Contract, the Contractor shall encounter on the Site any physical conditions other than climatic conditions, or artificial obstructions that could not have been reasonably foreseen prior to the date of the Contract Agreement by an experienced contractor on the basis of reasonable examination of the data relating to the Facilities including any data as to boring tests, provided by the Employer, and on the basis of information that it could have obtained from a visual inspection of the Site if access thereto was available, or other data readily available to it relating to the Facilities, and if the Contractor determines that it will in consequence of such conditions or obstructions incur additional cost and expense or require additional time to perform its obligations under the Contract that would not have been required if such physical conditions or artificial obstructions had not been encountered, the Contractor shall promptly, and before performing additional work or using additional Plant or Contractor's Equipment, notify the Project Manager in writing of

- (a) the physical conditions or artificial obstructions on the Site that could not have been reasonably foreseen;
- (b) the additional work and/or Plant and/or Contractor's Equipment required, including the steps which the Contractor will or proposes to take to overcome such conditions or obstructions;
- (c) the extent of the anticipated delay; and
- (d) the additional cost and expense that the Contractor is likely to incur.

On receiving any notice from the Contractor under this GCC Subclause 35.1, the Project Manager shall promptly consult with the Employer and Contractor and decide upon the actions to be taken to overcome the physical conditions or artificial obstructions encountered. Following such consultations, the Project Manager shall instruct the Contractor, with a copy to the Employer, of the actions to be taken.

35.2 Any reasonable additional cost and expense incurred by the Contractor in following the instructions from the Project Manager to overcome such physical conditions or artificial obstructions referred to in GCC Subclause 35.1 shall be paid by the Employer to the Contractor as an addition to the Contract Price.

35.3 If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in GCC Subclause 35.1, the Time for Completion shall be extended in accordance with GCC Clause 40.

36. Change in Laws and Regulations

36.1 If, after the date 28 days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated, or changed, which shall be deemed to include any change in interpretation or application by the competent authorities, that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with the SCC, pursuant to GCC Subclause 11.2.

37. Force Majeure

37.1 "Force Majeure" shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:

- (a) war, hostilities, or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war;
- (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion, and terrorist acts;
- (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority;
- (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine, and plague;
- (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear, and pressure waves or other natural or physical disaster; and
- (f) shortage of labor, materials, or utilities where caused by circumstances that are themselves Force Majeure.

37.2 If either party is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 14 days after the occurrence of such event.

37.3 The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered, or delayed. The Time for Completion shall be extended in accordance with GCC Clause 40.

37.4 The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect thereof upon its or their

performance of the Contract and to fulfill its or their obligations under the Contract, but without prejudice to either party's right to terminate the Contract under GCC Subclauses 37.6 and 38.5.

- 37.5 No delay or nonperformance by either party hereto caused by the occurrence of any event of Force Majeure shall
- (a) constitute a default or breach of the Contract; or
 - (b) give rise to any claim for damages or additional cost or expense occasioned thereby, subject to GCC Subclauses 32.2, 38.3 and 38.4

if and to the extent that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

- 37.6 If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than 60 days or an aggregate period of more than 120 days on account of one or more events of Force Majeure during the currency of the Contract, the parties will attempt to develop a mutually satisfactory solution, failing which either party may terminate the Contract by giving a notice to the other, but without prejudice to either party's right to terminate the Contract under GCC Subclause 38.5.
- 37.7 In the event of termination pursuant to GCC Subclause 37.6, the rights and obligations of the Employer and the Contractor shall be as specified in GCC Subclauses 42.1.2 and 42.1.3.
- 37.8 Notwithstanding GCC Subclause 37.5, Force Majeure shall not apply to any obligation of the Employer to make payments to the Contractor herein.

38. War Risks

- 38.1 "War Risks" shall mean any event specified in paragraphs (a) and (b) of GCC Subclause 37.1 and any explosion or impact of any mine, bomb, shell, grenade, or other projectile, missile, munitions or explosive of war, occurring or existing in or near the country (or countries) where the Site is located.
- 38.2 Notwithstanding anything contained in the Contract, the Contractor shall have no liability whatsoever for or with respect to
- (a) destruction of or damage to Facilities, Plant, or any part thereof;
 - (b) destruction of or damage to property of the Employer or any third party; or
 - (c) injury or loss of life

if such destruction, damage, injury or loss of life is caused by any war risks, and the Employer shall indemnify and hold the Contractor harmless from and against any and all claims, liabilities, actions, lawsuits, damages, costs, charges, or expenses arising in consequence of or in connection with the same.

- 38.3 If the Facilities or any Plant or Contractor's Equipment or any other property of the Contractor used or intended to be used for the purposes of the Facilities shall sustain destruction or damage by reason of any war risks, the Employer shall pay the Contractor for
- (a) any part of the Facilities or the Plant so destroyed or damaged to the extent not already paid for by the Employer and so far as may

be required by the Employer, and as may be necessary for completion of the Facilities;

- (b) replacing or making good any Contractor's Equipment or other property of the Contractor so destroyed or damaged; and
- (c) replacing or making good any such destruction or damage to the Facilities or the Plant or any part thereof.

If the Employer does not require the Contractor to replace or make good any such destruction or damage to the Facilities, the Employer shall either request a change in accordance with GCC Clause 39, excluding the performance of that part of the Facilities thereby destroyed or damaged or, where the loss, destruction, or damage affects a substantial part of the Facilities, shall terminate the Contract, pursuant to GCC Subclause 42.1.

If the Employer requires the Contractor to replace or make good on any such destruction or damage to the Facilities, the Time for Completion shall be extended in accordance with GCC 40.

- 38.4 Notwithstanding anything contained in the Contract, the Employer shall pay the Contractor for any increased costs or incidentals to the execution of the Contract that are in any way attributable to, consequent on, resulting from, or in any way connected with any war risks, provided that the Contractor shall as soon as practicable notify the Employer in writing of any such increased cost.
- 38.5 If during the performance of the Contract any war risks shall occur that financially or otherwise materially affect the execution of the Contract by the Contractor, the Contractor shall use its reasonable efforts to execute the Contract with due and proper consideration given to the safety of its and its Subcontractors' personnel engaged in the work on the Facilities, provided, however, that if the execution of the work on the Facilities becomes impossible or is substantially prevented for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of any war risks, the parties will attempt to develop a mutually satisfactory solution, failing which either party may terminate the Contract by giving a notice to the other.
- 38.6 In the event of termination pursuant to GCC Subclauses 38.3 or 38.5, the rights and obligations of the Employer and the Contractor shall be specified in GCC Subclauses 42.1.2 and 42.1.3.

H. Change in Contract Elements

39. Change in the Facilities

39.1 Introducing a Change

39.1.1 Subject to GCC Subclauses 39.2.5 and 39.2.7, the Employer shall have the right to propose, and subsequently require, that the Project Manager order the Contractor from time to time during the performance of the Contract to make any change, modification, addition, or deletion to, in or from the Facilities hereinafter called "Change," provided that such Change falls within the general scope of the Facilities and does not constitute unrelated work and that it is technically practicable, taking into account both the state

of advancement of the Facilities and the technical compatibility of the Change envisaged with the nature of the Facilities as specified in the Contract.

39.1.2 The Contractor may from time to time during its performance of the Contract propose to the Employer with a copy to the Project Manager, any Change that the Contractor considers necessary or desirable to improve the quality, efficiency, or safety of the Facilities. The Employer may at its discretion approve or reject any Change proposed by the Contractor, provided that the Employer shall approve any Change proposed by the Contractor to ensure the safety of the Facilities.

39.1.3 Notwithstanding GCC Subclauses 39.1.1 and 39.1.2, no change made necessary because of any default of the Contractor in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Completion.

39.1.4 The procedure on how to proceed with and execute Changes is specified in GCC Subclauses 39.2 and 39.3, and further details and forms are provided in the Employer's Requirements (Forms and Procedures).

39.2 Changes Originating from Employer

39.2.1 If the Employer proposes a Change pursuant to GCC Subclause 39.1.1, it shall send to the Contractor a "Request for Change Proposal," requiring the Contractor to prepare and furnish to the Project Manager as soon as reasonably practicable a "Change Proposal," which shall include the following:

- (a) brief description of the Change,
- (b) effect on the Time for Completion,
- (c) estimated cost of the Change,
- (d) effect on Functional Guarantees (if any),
- (e) effect on the Facilities, and
- (f) effect on any other provisions of the Contract.

39.2.2 Prior to preparing and submitting the "Change Proposal," the Contractor shall submit to the Project Manager an "Estimate for Change Proposal," which shall be an estimate of the cost of preparing and submitting the Change Proposal.

Upon receipt of the Contractor's Estimate for Change Proposal, the Employer shall do one of the following:

- (a) accept the Contractor's estimate with instructions to the Contractor to proceed with the preparation of the Change Proposal,
- (b) advise the Contractor of any part of its Estimate for Change Proposal that is unacceptable and request the Contractor to review its estimate
- (c) advise the Contractor that the Employer does not intend to proceed with the Change.

39.2.3 Upon receipt of the Employer's instruction to proceed under GCC Subclause 39.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC Subclause 39.2.1.

39.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If such rates and prices are inequitable, the parties thereto shall agree on specific rates for the valuation of the Change.

39.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance therewith and with all other Change Orders that have already become binding upon the Contractor under this GCC Clause 39 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than 15%, the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Employer accepts the Contractor's objection, the Employer shall withdraw the proposed Change and shall notify the Contractor in writing thereof.

The Contractor's failure to so object shall neither affect its right to object to any subsequent requested Changes or Change Orders herein, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Contractor represents.

39.2.6 Upon receipt of the Change Proposal, the Employer and the Contractor shall mutually agree upon all matters therein contained. Within 14 days after such agreement, the Employer shall, if it intends to proceed with the Change, issue the Contractor with a Change Order.

If the Employer is unable to reach a decision within 14 days, it shall notify the Contractor with details of when the Contractor can expect a decision.

If the Employer decides not to proceed with the Change for whatever reason, it shall, within the said period of 14 days, notify the Contractor accordingly. Under such circumstances, the Contractor shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Contractor in its Estimate for Change Proposal submitted in accordance with GCC Subclause 39.2.2.

39.2.7 If the Employer and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Employer may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order."

Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The parties shall thereafter attempt to

reach agreement on the outstanding issues under the Change Proposal.

If the parties cannot reach agreement within 60 days from the date of issue of the Pending Agreement Change Order, then the matter may be referred to the Dispute Board in accordance with the provisions of GCC Subclause 45.3.

39.3 Changes Originating from Contractor

39.3.1 If the Contractor proposes a Change pursuant to GCC Subclause 39.1.2, the Contractor shall submit to the Project Manager a written "Application for Change Proposal," giving reasons for the proposed Change and including the information specified in GCC Subclause 39.2.1.

Upon receipt of the Application for Change Proposal, the parties shall follow the procedures outlined in GCC Subclauses 39.2.6 and 39.2.7. However, should the Employer choose not to proceed, the Contractor shall not be entitled to recover the costs of preparing the Application for Change Proposal.

40. Extension of Time for Completion

40.1 The Time(s) for Completion specified in the SCC shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) any Change in the Facilities as provided in GCC Clause 39;
- (b) any occurrence of Force Majeure as provided in GCC Clause 37, unforeseen conditions as provided in GCC Clause 35, or other occurrence of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Subclause 32.2;
- (c) any suspension order given by the Employer under GCC Clause 41 hereof or reduction in the rate of progress pursuant to GCC Subclause 41.2; or
- (d) any changes in laws and regulations as provided in GCC Clause 36; or
- (e) any default or breach of the Contract by the Employer, or any activity, act or omission of the Employer, or the Project Manager, or any other contractors employed by the Employer; or
- (f) any other matter specifically mentioned in the Contract; or
- (g) any delay on the part of a sub-contractor, provided such delay is due to a cause for which the Contractor himself would have been entitled to an extension of time under this Subclause

by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.

40.2 Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Project Manager a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Employer and the Contractor shall agree upon the period of such extension. In the event that the Contractor does not

accept the Employer's estimate of a fair and reasonable time extension, the Contractor shall be entitled to refer the matter to a Dispute Board, pursuant to GCC Subclause 45.3.

- 40.3 The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.

In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 40.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall thereafter comply with all reasonable instructions, which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC 40.1, the amount of such extra costs shall be added to the Contract Price.

41. Suspension

- 41.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefor. The Contractor shall thereupon suspend performance of such obligation, except those obligations necessary for the care or preservation of the Facilities, until ordered in writing to resume such performance by the Project Manager.

If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than 90 days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Employer shall, within 28 days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with GCC Clause 39, excluding the performance of the suspended obligations from the Contract.

If the Employer fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with GCC Clause 39 or, where it affects the whole of the Facilities, as termination of the Contract under GCC Subclause 42.1.

- 41.2 If

- (a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix (Terms and Procedures of Payment) to the Contract Agreement, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, with interest thereon as stipulated in GCC Subclause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such

approval, or fails to remedy the breach or take steps to remedy the breach within 14 days after receipt of the Contractor's notice; or

- (b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas in accordance with GCC Subclause 10.2, or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities,

then the Contractor may by 14 days' notice to the Employer suspend performance of all or any of its obligations under the Contract, or reduce the rate of progress.

- 41.3 If the Contractor's performance of its obligations is suspended, or the rate of progress is reduced pursuant to this GCC Clause 41, then the Time for Completion shall be extended in accordance with GCC Subclause 40.1, and any and all additional costs or expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by the Employer to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.
- 41.4 During the period of suspension, the Contractor shall not remove from the Site any Plant, any part of the Facilities or any Contractor's Equipment, without the prior written consent of the Employer.

42. Termination

42.1 Termination for Employer's Convenience

42.1.1 The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Subclause 42.1.

42.1.2 Upon receipt of the notice of termination under GCC Subclause 42.1.1, the Contractor shall, either immediately or upon the date specified in the notice of termination,

- (a) cease all further work, except for such work as the Employer may specify in the notice of termination for the sole purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) (ii) below;
- (c) remove all Contractor's Equipment from the Site, repatriate the Contractor's and its Subcontractors' personnel from the Site, remove from the Site any wreckage, rubbish and debris of any kind, and leave the whole of the Site in a clean and safe condition; and
- (d) subject to the payment specified in GCC Subclause 42.1.3,
 - (i) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
 - (ii) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any

subcontracts concluded between the Contractor and its Subcontractors; and

- (iii) deliver to the Employer all non-proprietary drawings, specifications and other documents prepared by the Contractor or its Subcontractors as at the date of termination in connection with the Facilities.

42.1.3 In the event of termination of the Contract under GCC Subclause 42.1.1, the Employer shall pay to the Contractor the following amounts:

- (a) the Contract Price, properly attributable to the parts of the Facilities executed by the Contractor as of the date of termination;
- (b) the costs reasonably incurred by the Contractor in the removal of the Contractor's Equipment from the Site and in the repatriation of the Contractor's and its Subcontractors' personnel;
- (c) any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges;
- (d) costs incurred by the Contractor in protecting the Facilities and leaving the Site in a clean and safe condition pursuant to paragraph (a) of GCC Subclause 42.1.2; and
- (e) the cost of satisfying all other obligations, commitments and claims that the Contractor may in good faith have undertaken with third parties in connection with the Contract and that are not covered by paragraphs (a) through (d) above.

42.2 Termination for Contractor's Default

42.2.1 The Employer, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons therefor to the Contractor, referring to this GCC Subclause 42.2:

- (a) if the Contractor becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Contractor is a corporation, a resolution is passed or order is made for its winding up, other than a voluntary liquidation for the purposes of amalgamation or reconstruction, a receiver is appointed over any part of its undertaking or assets, or if the Contractor takes or suffers any other analogous action in consequence of debt;
- (b) if the Contractor assigns or transfers the Contract or any right or interest therein in violation of the provision of GCC Clause 43; and
- (c) if the Contractor, in the judgment of the Employer has engaged in integrity violations, as defined in GCC Clause 6, in competing for or in executing the Contract.

42.2.2 If the Contractor

- (a) has abandoned or repudiated the Contract;

- (b) has without valid reason failed to commence work on the Facilities promptly or has suspended, other than pursuant to GCC Subclause 41.2, the progress of Contract performance for more than 28 days after receiving a written instruction from the Employer to proceed;
- (c) persistently fails to execute the Contract in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause;
- (d) refuses or is unable to provide sufficient materials, services or labor to execute and complete the Facilities in the manner specified in the program furnished under GCC Subclause 18.2 at rates of progress that give reasonable assurance to the Employer that the Contractor can attain Completion of the Facilities by the Time for Completion as extended;

then the Employer may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor, stating the nature of the default and requiring the Contractor to remedy the same. If the Contractor fails to remedy or to take steps to remedy the same within 14 days of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor that refers to this GCC Subclause 42.2.

42.2.3 Upon receipt of the notice of termination under GCC Subclauses 42.2.1 or 42.2.2, the Contractor shall, either immediately or upon such date as is specified in the notice of termination,

- (a) cease all further work, except for such work as the Employer may specify in the notice of termination for the sole purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) below;
- (c) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
- (d) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any subcontracts concluded between the Contractor and its Subcontractors; and
- (e) deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities.

42.2.4 The Employer may enter upon the Site, expel the Contractor, and complete the Facilities itself or by employing any third party. The Employer may, to the exclusion of any right of the Contractor over the same, take over and use with the payment of a fair rental rate to the Contractor, with all the maintenance costs to the account of the Employer and with an indemnification by the Employer for all liability including damage or injury to persons arising out of the Employer's use of such equipment, any Contractor's Equipment

owned by the Contractor and on the Site in connection with the Facilities for such reasonable period as the Employer considers expedient for the supply and installation of the Facilities.

Upon completion of the Facilities or at such earlier date as the Employer thinks appropriate, the Employer shall give notice to the Contractor that such Contractor's Equipment will be returned to the Contractor at or near the Site and shall return such Contractor's Equipment to the Contractor in accordance with such notice. The Contractor shall thereafter without delay and at its cost remove or arrange removal of the same from the Site.

42.2.5 Subject to GCC Subclause 42.2.6, the Contractor shall be entitled to be paid the Contract Price attributable to the Facilities executed as of the date of termination, the value of any unused or partially used Plant on the Site, and the costs, if any, incurred in protecting the Facilities and in leaving the Site in a clean and safe condition pursuant to paragraph (a) of GCC Subclause 42.2.3. Any sums due the Employer from the Contractor accruing prior to the date of termination shall be deducted from the amount to be paid to the Contractor under this Contract.

42.2.6 If the Employer completes the Facilities, the cost of completing the Facilities by the Employer shall be determined.

If the sum that the Contractor is entitled to be paid, pursuant to GCC Subclause 42.2.5, plus the reasonable costs incurred by the Employer in completing the Facilities, exceeds the Contract Price, the Contractor shall be liable for such excess.

If such excess is greater than the sums due the Contractor under GCC Subclause 42.2.5, the Contractor shall pay the balance to the Employer, and if such excess is less than the sums due the Contractor under GCC Subclause 42.2.5, the Employer shall pay the balance to the Contractor.

The Employer and the Contractor shall agree, in writing, on the computation described above and the manner in which any sums shall be paid.

42.3 Termination by Contractor

42.3.1 If

- (a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix (Terms and Procedures of Payment) to the Contract Agreement, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, with interest thereon as stipulated in GCC Subclause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within 14 days after receipt of the Contractor's notice; or

- (b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities;

then the Contractor may give a notice to the Employer thereof, and if the Employer has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within 28 days of such notice, or if the Contractor is still unable to carry out any of its obligations under the Contract for any reason attributable to the Employer within 28 days of the said notice, the Contractor may by a further notice to the Employer referring to this GCC Subclause 42.3.1, forthwith terminate the Contract.

42.3.2 The Contractor may terminate the Contract forthwith by giving a notice to the Employer to that effect, referring to this GCC Subclause 42.3.2, if the Employer becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Employer takes or suffers any other analogous action in consequence of debt.

42.3.3 If the Contract is terminated under GCC Subclauses 42.3.1 or 42.3.2, then the Contractor shall immediately

- (a) cease all further work, except for such work as may be necessary for the purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) (ii);
- (c) remove all Contractor's Equipment from the Site and repatriate the Contractor's and its Subcontractors' personnel from the Site; and
- (d) subject to the payment specified in GCC Subclause 42.3.4,
 - (i) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
 - (ii) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any subcontracts concluded between the Contractor and its Subcontractors; and
 - (iii) deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities.

42.3.4 If the Contract is terminated under GCC Subclauses 42.3.1 or 42.3.2, the Employer shall pay to the Contractor all payments specified in GCC Subclause 42.1.3, and reasonable compensation for all loss, except for loss of profit, or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.

42.3.5 Termination by the Contractor pursuant to this GCC Subclause 42.3 is without prejudice to any other rights or remedies of the Contractor that may be exercised in lieu of or in addition to rights conferred by GCC Subclause 42.3.

42.4 In this GCC Clause 42, the expression "Facilities executed" shall include all work executed, Installation Services provided, and all Plant acquired, or subject to a legally binding obligation to purchase, by the Contractor and used or intended to be used for the purpose of the Facilities, up to and including the date of termination.

42.5 In this GCC Clause 42, in calculating any monies due from the Employer to the Contractor, account shall be taken of any sum previously paid by the Employer to the Contractor under the Contract, including any advance payment paid pursuant to the Appendix (Terms and Procedures of Payment) to the Contract Agreement.

43. Assignment

43.1 Neither the Employer nor the Contractor shall, without the express prior written consent of the other party which consent shall not be unreasonably withheld, assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.

I. Claims, Disputes, and Arbitration

44. Contractor's Claims

44.1 If the Contractor considers himself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall submit a notice to the Project Manager, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 28 days after the Contractor became aware, or should have become aware, of the event or circumstance.

If the Contractor fails to give notice of a claim within such period of 28 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Subclause shall apply.

The Contractor shall also submit any other notices, which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.

The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Project Manager. Without admitting the Employer's liability, the Project Manager may, after receiving any notice

under this Subclause, monitor the record keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Project Manager to inspect all these records, and shall (if instructed) submit copies to the Project Manager.

Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Project Manager, the Contractor shall send to the Project Manager a fully detailed claim, which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect,

- (a) this fully detailed claim shall be considered as interim;
- (b) the Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Project Manager may reasonably require; and
- (c) the Contractor shall send a final claim within 28 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Project Manager.

Within 42 days after receiving a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Project Manager and approved by the Contractor, the Project Manager shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within such time.

Each payment certificate shall include such amounts for any claim as have been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

The Project Manager shall agree with the Contractor or estimate: (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with GCC Clause 40, and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.

The requirements of this Subclause are in addition to those of any other Subclause, which may apply to a claim. If the Contractor fails to comply with this or another Subclause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Subclause.

In the event that the Contractor and the Employer cannot agree on any matter relating to a claim, either party may refer the matter to the Dispute Board pursuant to GCC 45 hereof.

45. Disputes and Arbitration

45.1 Appointment of the Dispute Board

Disputes shall be referred to a Dispute Board for decision in accordance with GCC Subclause 45.3. The Parties shall appoint a Dispute Board by the date stated in the SCC.

The Dispute Board shall comprise, as stated in the SCC, either one or three suitably qualified persons ("the members"), each of whom shall be fluent in the language for communication defined in the Contract and shall be a professional experienced in the type of activities involved in the performance of the Contract and with the interpretation of contractual documents. If the number is not so stated and the Parties do not agree otherwise, the Dispute Board shall comprise three persons, one of whom shall serve as chairman.

If the Parties have not jointly appointed the Dispute Board 21 days before the date stated in the SCC and the Dispute Board is to comprise three persons, each Party shall nominate one member for the approval of the other Party. The first two members shall recommend and the Parties shall agree upon the third member, who shall act as chairman.

However, if a list of potential members is included in the SCC, the members shall be selected from those on the list, other than anyone who is unable or unwilling to accept appointment to the Dispute Board.

The agreement between the Parties and either the sole member or each of the three members shall incorporate by reference the General Conditions of Dispute Board Agreement contained in the Appendix to these General Conditions, with such amendments as are agreed between them.

The terms of the remuneration of either the sole member or each of the three members, including the remuneration of any expert whom the Dispute Board consults, shall be mutually agreed upon by the Parties when agreeing the terms of appointment of the member or such expert (as the case may be). Each Party shall be responsible for paying one-half of this remuneration.

If a member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment, a replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Subclause.

The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both Parties, the appointment of the Dispute Board (including each member) shall expire when the Operational Acceptance Certificate has been issued in accordance with GCC Clause 25.3.

45.2 Failure to Agree Dispute Board

If any of the following conditions apply, namely:

- (a) the Parties fail to agree upon the appointment of the sole member of the Dispute Board by the date stated in the first paragraph of GCC Subclause 45.1;
- (b) either Party fails to nominate a member (for approval by the other Party) of a Dispute Board of three persons by such date;
- (c) the Parties fail to agree upon the appointment of the third member (to act as chairman) of the Dispute Board by such date; or

- (d) the Parties fail to agree upon the appointment of a replacement person within 42 days after the date on which the sole member or one of the three members declines to act or is unable to act as a result of death, disability, resignation, or termination of appointment;

then the appointing entity or official named in the SCC shall, upon the request of either or both of the Parties and after due consultation with both Parties, appoint this member of the Dispute Board. This appointment shall be final and conclusive. Each Party shall be responsible for paying one-half of the remuneration of the appointing entity or official.

45.3 Obtaining Dispute Board's Decision

If a dispute (of any kind whatsoever) arises between the Parties in connection with the performance of the Contract, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Project Manager, either Party may refer the dispute in writing to the Dispute Board for its decision, with copies to the other Party and the Project Manager. Such reference shall state that it is given under this Subclause.

For a Dispute Board of three persons, the Dispute Board shall be deemed to have received such reference on the date when it is received by the chairman of the Dispute Board.

Both Parties shall promptly make available to the Dispute Board all such additional information, further access to the Site, and appropriate facilities, as the Dispute Board may require for the purposes of making a decision on such dispute. The Dispute Board shall be deemed to be not acting as arbitrator(s).

Within 84 days after receiving such reference, or within such other period as may be proposed by the Dispute Board and approved by both Parties, the Dispute Board shall give its decision, which shall be reasoned and shall state that it is given under this Subclause. The decision shall be binding on both Parties, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the Contract has already been abandoned, repudiated or terminated, the Contractor shall continue to proceed with the performance of the Facilities in accordance with the Contract.

If either Party is dissatisfied with the Dispute Board's decision, then either Party may, within 28 days after receiving the decision, give notice to the other Party of its dissatisfaction and intention to commence arbitration. If the Dispute Board fails to give its decision within the period of 84 days (or as otherwise approved) after receiving such reference, then either Party may, within 28 days after this period has expired, give notice to the other Party of its dissatisfaction and intention to commence arbitration.

In either event, this notice of dissatisfaction shall state that it is given under this Subclause, and shall set out the matter in dispute and the reason(s) for dissatisfaction. Except as stated in GCC Subclauses 45.6 and 45.7, neither Party shall be entitled to commence arbitration of a dispute unless a notice of dissatisfaction has been given in accordance with this Subclause.

If the Dispute Board has given its decision as to a matter in dispute to both Parties, and no notice of dissatisfaction has been given by either Party within 28 days after it received the Dispute Board's decision, then the decision shall become final and binding upon both Parties.

45.4 Amicable Settlement

Where notice of dissatisfaction has been given under GCC Subclause 45.3 above, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, arbitration may be commenced on or after the fifty-sixth day after the day on which notice of dissatisfaction and intention to commence arbitration was given, even if no attempt at amicable settlement has been made.

45.5 Arbitration

Unless settled amicably, any dispute in respect of which the Dispute Board's decision (if any) has not become final and binding shall be finally settled by international arbitration. Unless otherwise agreed by both Parties,

- (a) arbitration proceedings shall be conducted as stated in the Special Conditions;
- (b) if no arbitration proceedings is so stated, the dispute shall be finally settled by institutional arbitration under the Rules of Arbitration of the International Chamber of Commerce;
- (c) the dispute shall be settled by three arbitrators; and
- (d) the arbitration shall be conducted in the language for communications defined in GCC Subclause 5.3.

The arbitrator(s) shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Project Manager, and any decision of the Dispute Board, relevant to the dispute. Nothing shall disqualify the Project Manager from being called as a witness and giving evidence before the arbitrator(s) on any matter whatsoever relevant to the dispute.

Neither Party shall be limited in the proceedings before the arbitrator(s) to the evidence or arguments previously put before the Dispute Board to obtain its decision, or to the reasons for dissatisfaction given in its notice of dissatisfaction. Any decision of the Dispute Board shall be admissible in evidence in the arbitration.

Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, the Project Manager and the Dispute Board shall not be altered by reason of any arbitration being conducted during the progress of the Works.

45.6 Failure to Comply with Dispute Board's Decision

In the event that a Party fails to comply with a Dispute Board decision which has become final and binding, then the other Party may, without prejudice to any other rights it may have, refer the failure itself to arbitration under GCC Subclause 45.5. GCC Subclauses 45.3 and 45.4 shall not apply to this reference.

45.7 Expiry of Dispute Board's Appointment

If a dispute arises between the Parties in connection with the performance of the Contract, and there is no Dispute Board in place, whether by reason of the expiry of the Dispute Board's appointment or otherwise,

- (a) GCC Subclauses 45.3 and 45.4 shall not apply, and
- (b) the dispute may be referred directly to arbitration under GCC Subclause 45.5.

APPENDIX A

General Conditions of Dispute Board Agreement

1 Definitions

Each "Dispute Board Agreement" is a tripartite agreement by and between

- (a) the "Employer";
- (b) the "Contractor"; and
- (c) the "Member" who is defined in the Dispute Board Agreement as being
 - (i) the sole member of the "Dispute Board" and, where this is the case, all references to the "Other Members" do not apply; or
 - (ii) one of the three persons who are jointly called the "Dispute Board" and, where this is the case, the other two persons are called the "Other Members".

The Employer and the Contractor have entered (or intend to enter) into a contract, which is called the "Contract" and is defined in the Dispute Board Agreement, which incorporates this Appendix. In the Dispute Board Agreement, words and expressions which are not otherwise defined shall have the meanings assigned to them in the Contract.

2 General Provisions

Unless otherwise stated in the Dispute Board Agreement, it shall take effect on the latest of the following dates:

- (a) the Commencement Date defined in the Contract;
- (b) when the Employer, the Contractor and the Member have each signed the Dispute Board Agreement; or
- (c) when the Employer, the Contractor and each of the Other Members (if any) have respectively each signed a dispute board agreement.

This employment of the Member is a personal appointment. At any time, the Member may give not less than 70 days' notice of resignation to the Employer and to the Contractor, and the Dispute Board Agreement shall terminate upon the expiry of this period.

3 Warranties

The Member warrants and agrees that he/she is and shall be impartial and independent of the Employer, the Contractor and the Project Manager. The Member shall promptly disclose, to each of them and to the Other Members (if any), any fact or circumstance which might appear inconsistent with his/her warranty and agreement of impartiality and independence.

When appointing the Member, the Employer and the Contractor relied upon the Member's representations that he/she is

- (a) experienced in the work, which the Contractor is to carry out under the Contract,
- (b) experienced in the interpretation of contract documentation, and

- (c) fluent in the language for communications defined in the Contract.

4 General Obligations of the Member

The Member shall

- (a) have no interest financial or otherwise in the Employer, the Contractor or the Project Manager, nor any financial interest in the Contract except for payment under the Dispute Board Agreement;
- (b) not previously have been employed as a consultant or otherwise by the Employer, the Contractor, or the Project Manager, except in such circumstances as were disclosed in writing to the Employer and the Contractor before they signed the Dispute Board Agreement;
- (c) have disclosed in writing to the Employer, the Contractor, and the Other Members (if any), before entering into the Dispute Board Agreement and to his/her best knowledge and recollection, any professional or personal relationships with any director, officer, or employee of the Employer, the Contractor, or the Project Manager, and any previous involvement in the overall project of which the Contract forms part;
- (d) not, for the duration of the Dispute Board Agreement, be employed as a consultant or otherwise by the Employer, the Contractor, or the Project Manager, except as may be agreed in writing by the Employer, the Contractor, and the Other Members (if any);
- (e) comply with the annexed procedural rules and with GCC Subclause 45.3;
- (f) not give advice to the Employer, the Contractor, the Employer's Personnel, or the Contractor's Personnel concerning the conduct of the Contract, other than in accordance with the annexed procedural rules;
- (g) not while a Member enter into discussions or make any agreement with the Employer, the Contractor, or the Project Manager regarding employment by any of them, whether as a consultant or otherwise, after ceasing to act under the Dispute Board Agreement;
- (h) ensure his/her availability for all site visits and hearings as are necessary;
- (i) become conversant with the Contract and with the progress of the Facilities (and of any other parts of the project of which the Contract forms part) by studying all documents received, which shall be maintained in a current working file;
- (j) treat the details of the Contract and all the Dispute Board's activities and hearings as private and confidential, and not publish or disclose them without the prior written consent of the Employer, the Contractor, and the Other Members (if any); and
- (k) be available to give advice and opinions on any matter relevant to the Contract when requested by both the Employer and the Contractor, subject to the agreement of the Other Members (if any).

5 General Obligations of the Employer and the Contractor

The Employer, the Contractor, the Employer's Personnel and the Contractor's Personnel shall not request advice from or consultation with the Member regarding the Contract, otherwise than in the normal course of the Dispute Board's activities under the Contract and the Dispute Board Agreement. The Employer and the Contractor shall be responsible for compliance with this provision, by the Employer's Personnel and the Contractor's Personnel respectively.

The Employer and the Contractor undertake to each other and to the Member that the Member shall not, except as otherwise agreed in writing by the Employer, the Contractor, the Member and the Other Members (if any)

- (a) be appointed as an arbitrator in any arbitration under the Contract;
- (b) be called as a witness to give evidence concerning any dispute before arbitrator(s) appointed for any arbitration under the Contract; or
- (c) be liable for any claims for anything done or omitted in the discharge or purported discharge of the Member's functions, unless the act or omission is shown to have been in bad faith.

The Employer and the Contractor hereby jointly and severally indemnify and hold the Member harmless against and from claims from which he is relieved from liability under the preceding paragraph.

Whenever the Employer or the Contractor refers a dispute to the Dispute Board under GCC Subclause 45.3, which will require the Member to make a site visit and attend a hearing, the Employer or the Contractor shall provide appropriate security for a sum equivalent to the reasonable expenses to be incurred by the Member. No account shall be taken of any other payments due or paid to the Member.

6 Payment

The Member shall be paid as follows, in the currency named in the Dispute Board Agreement:

- (a) a retainer fee per calendar month, which shall be considered as payment in full for
 - (i) being available on 28 days' notice for all site visits and hearings;
 - (ii) becoming and remaining conversant with all project developments and maintaining relevant files;
 - (iii) all office and overhead expenses including secretarial services, photocopying and office supplies incurred in connection with his duties; and
 - (iv) all services performed hereunder except those referred to in sub-paragraphs (b) and (c) of this Clause.

The retainer fee shall be paid with effect from the last day of the calendar month in which the Dispute Board Agreement becomes effective; until the last day of the calendar month in which the Taking-Over Certificate is issued for the whole of the Works.

With effect from the first day of the calendar month following the month in which Taking-Over Certificate is issued for the whole of the Works, the retainer fee shall be reduced by one-third. This reduced fee shall be paid until the first day of the calendar month in which the Member resigns or the Dispute Board Agreement is otherwise terminated.

- (b) a daily fee, which shall be considered as payment in full for

- (i) each day or part of a day up to a maximum of 2 days' travel time in each direction for the journey between the Member's home and the site, or another location of a meeting with the Other Members (if any);
 - (ii) each working day on site visits, hearings, or preparing decisions; and
 - (iii) each day spent reading submissions in preparation for a hearing.
- (c) all reasonable expenses, including necessary travel expenses (air fare in less than first class, hotel and subsistence and other direct travel expenses) incurred in connection with the Member's duties, as well as the cost of telephone calls, courier charges, facsimiles, and telexes, and use of the internet: a receipt shall be required for each item in excess of 5% of the daily fee referred to in sub-paragraph (b) of this Clause;
- (d) any taxes properly levied in the Country on payments made to the Member (unless a national or permanent resident of the Country) under this Clause 6.

The retainer and daily fees shall be as specified in the Dispute Board Agreement. Unless it specifies otherwise, these fees shall remain fixed for the first 24 calendar months, and shall thereafter be adjusted by agreement between the Employer, the Contractor and the Member, at each anniversary of the date on which the Dispute Board Agreement became effective.

If the parties fail to agree on the retainer fee or the daily fee, the appointing entity or official named in the SCC shall determine the amount of the fees to be used.

The Member shall submit invoices for payment of the monthly retainer and air fares quarterly in advance. Invoices for other expenses and for daily fees shall be submitted following the conclusion of a site visit or hearing. All invoices shall be accompanied by a brief description of activities performed during the relevant period and shall be addressed to the Contractor.

The Contractor shall pay each of the Member's invoices in full within 56 calendar days after receiving each invoice and shall apply to the Employer (in the Statements under the Contract) for reimbursement of one-half of the amounts of these invoices. The Employer shall then pay the Contractor in accordance with the Contract.

If the Contractor fails to pay to the Member the amount to which he/she is entitled under the Dispute Board Agreement, the Employer shall pay the amount due to the Member and any other amount which may be required to maintain the operation of the Dispute Board; and without prejudice to the Employer's rights or remedies. In addition to all other rights arising from this default, the Employer shall be entitled to reimbursement of all sums paid in excess of one-half of these payments, plus all costs of recovering these sums and financing charges calculated at the rate specified in accordance with GCC Subclause 12.3.

If the Member does not receive payment of the amount due within 70 days after submitting a valid invoice, the Member may (i) suspend his/her services (without notice) until the payment is received, and/or (ii) resign his/her appointment by giving notice under Clause 7.

7 Termination

At any time: (i) the Employer and the Contractor may jointly terminate the Dispute Board Agreement by giving 42 days' notice to the Member, or (ii) the Member may resign as provided for in Clause 2.

If the Member fails to comply with the Dispute Board Agreement, the Employer and the Contractor may, without prejudice to their other rights, terminate it by notice to the Member. The notice shall take effect when received by the Member.

If the Employer or the Contractor fails to comply with the Dispute Board Agreement, the Member may, without prejudice to his other rights, terminate it by notice to the Employer and the Contractor. The notice shall take effect when received by them both.

Any such notice, resignation and termination shall be final and binding on the Employer, the Contractor and the Member. However, a notice by the Employer or the Contractor, but not by both, shall be of no effect.

8 Default of the Member

If the Member fails to comply with any of his obligations under Clause 4 concerning his impartiality or independence in relation to the Employer or the Contractor, he/she shall not be entitled to any fees or expenses hereunder and shall, without prejudice to their other rights, reimburse each of the Employer and the Contractor for any fees and expenses received by the Member and the Other Members (if any), for proceedings or decisions (if any) of the Dispute Board which are rendered void or ineffective by the said failure to comply.

9 Disputes

Any dispute or claim arising out of or in connection with this Dispute Board Agreement, or the breach, termination or invalidity thereof, shall be finally settled by institutional arbitration. If no other arbitration institute is agreed, the arbitration shall be conducted under the Rules of Arbitration of the International Chamber of Commerce by one arbitrator appointed in accordance with these Rules of Arbitration.

Annex - DISPUTE BOARD GUIDELINES

1. Unless otherwise agreed by the Employer and the Contractor, the Dispute Board shall visit the site at intervals of not more than 140 days, including times of critical construction events, at the request of either the Employer or the Contractor. Unless otherwise agreed by the Employer, the Contractor, and the Dispute Board, the period between consecutive visits shall not be less than 70 days, except as required to convene a hearing as described below.
2. The timing of and agenda for each site visit shall be as agreed jointly by the Dispute Board, the Employer, and the Contractor, or in the absence of agreement, shall be decided by the Dispute Board. The purpose of site visits is to enable the Dispute Board to become and remain acquainted with the progress of the Works and of any actual or potential problems or claims, and, as far as reasonable, to prevent potential problems or claims from becoming disputes.
3. Site visits shall be attended by the Employer, the Contractor, and the Project Manager and shall be coordinated by the Employer in cooperation with the Contractor. The Employer shall ensure the provision of appropriate conference facilities and secretarial and copying services. At the conclusion of each site visit and before leaving the site, the Dispute Board shall prepare a report on its activities during the visit and shall send copies to the Employer and the Contractor.
4. The Employer and the Contractor shall furnish to the Dispute Board one copy of all documents which the Dispute Board may request, including Contract documents, progress reports, variation instructions, certificates, and other documents pertinent to the performance of the Contract. All communications between the Dispute Board and the Employer or the Contractor shall be copied to the other Party. If the Dispute Board comprises three persons, the Employer and the Contractor shall send copies of these requested documents and these communications to each of these persons.
5. If any dispute is referred to the Dispute Board in accordance with GCC Subclause 45.3, the Dispute Board shall proceed in accordance with GCC Subclause 45.3 and these Guidelines. Subject to the time allowed to give notice of a decision and other relevant factors, the Dispute Board shall
 - (a) act fairly and impartially as between the Employer and the Contractor, giving each of them a reasonable opportunity of putting his case and responding to the other's case; and
 - (b) adopt procedures suitable to the dispute, avoiding unnecessary delay or expense.
6. The Dispute Board may conduct a hearing on the dispute, in which event it will decide on the date and place for the hearing and may request that written documentation and arguments from the Employer and the Contractor be presented to it prior to or at the hearing.
7. Except as otherwise agreed in writing by the Employer and the Contractor, the Dispute Board shall have power to adopt an inquisitorial procedure, to refuse admission to hearings or audience at hearings to any persons other than representatives of the Employer, the Contractor, and the Project Manager, and to proceed in the absence of any party who the Dispute Board is satisfied received notice of the hearing; but shall have discretion to decide whether and to what extent this power may be exercised.
8. The Employer and the Contractor empower the Dispute Board, among other things, to
 - (a) establish the procedure to be applied in deciding a dispute;
 - (b) decide upon the Dispute Board's own jurisdiction, and as to the scope of any dispute referred to it;

- (c) conduct any hearing as it thinks fit, not being bound by any rules or procedures other than those contained in the Contract and these Guidelines;
 - (d) take the initiative in ascertaining the facts and matters required for a decision;
 - (e) make use of its own specialist knowledge, if any;
 - (f) decide upon the payment of financing charges in accordance with the Contract;
 - (g) decide upon any provisional relief such as interim or conservatory measures;
 - (h) open up, review and revise any certificate, decision, determination, instruction, opinion or valuation of the Project Manager, relevant to the dispute; and
 - (i) appoint, should the Dispute Board so consider necessary and the Parties agree, a suitable expert at the cost of the Parties to give advice on a specific matter relevant to the dispute.
9. The Dispute Board shall not express any opinions during any hearing concerning the merits of any arguments advanced by the Parties. Thereafter, the Dispute Board shall make and give its decision in accordance with GCC Subclause 45.3, or as otherwise agreed by the Employer and the Contractor in writing. If the Dispute Board comprises three persons
- (a) it shall convene in private after a hearing, in order to have discussions and prepare its decision;
 - (b) it shall endeavour to reach a unanimous decision: if this proves impossible the applicable decision shall be made by a majority of the Members, who may require the minority Member to prepare a written report for submission to the Employer and the Contractor; and
 - (c) if a Member fails to attend a meeting or hearing, or to fulfil any required function, the other two Members may nevertheless proceed to make a decision, unless
 - (i) either the Employer or the Contractor does not agree that they do so, or
 - (ii) the absent Member is the chairman and he/she instructs the other Members to not make a decision.

Section 8 - Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clause number of the SCC is the corresponding clause number of the GCC.

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1. Definitions

The Employer is: Plaridel Water District

The Project Manager is: Engr. Ronaldo C. Picar

The Bank is: Asian Development Bank

Country of Origin: _____

5. Law and Language

5.1 The Contract shall be interpreted in accordance with the laws of: the Philippines

5.2 The ruling language is: English

5.3 The language for communications is: English

7. Scope of Facilities

7.3 The Contractor agrees to supply spare parts for a period of years: five (5) years

The Contractor shall carry sufficient inventories to ensure an ex-stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within 6 months of placing the order and opening the letter of credit. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.

8. Time for Commencement and Completion

8.1 The Contractor shall commence work on the Facilities within seven (7) days from the Effective Date for determining Time for Completion as specified in the Contract Agreement.

8.2 The Time for Completion of the whole of the Facilities shall be Ten (10) months from the Effective Date as described in the Contract Agreement.

Time for Completion for parts of the Facilities:

Design: One (1) month from the Effectivity Date of Contract

One (1) month – approval of detailed engineering design (DED)

Construction: Eight (8) months (after approval of DED)

Environmental Safeguard: Two (2) months from the Effectivity Date of Contract

(1 month = 30 days)

9. Contractor's Responsibilities

9.8 (c) Within 28 days of the Commencement Date the Contractor shall submit a detailed Site Specific Environmental Management Plan (SSEMP)/Contractor's Environmental Management Plan (CEMP) for the WD Engineer's no objection showing how he/she intends to comply with environmental laws and regulations and other specific requirements prescribed in the Contract, addressing all the monitoring and mitigation measures set forth in the Environmental Impact Assessment ("EIA") and the Environmental Management Plan ("EMP") of the project attached in Section 6-

Employer's Requirements. Work shall not commence on the Site until the no objection of SSEMP/CEMP has been obtained from the Engineer and is being implemented. Such acceptance by the Engineer shall not relieve the Contractor of any of his obligations or responsibilities under the Contract.

The Contractor shall (a) establish an operational system for managing environmental impacts, (b) comply with the approved SSEMP/CEMP and any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor the implementation of the project EMP through the SSEMP/CEMP, (c) allocate the budget required to ensure that such measures, requirements and actions are carried out, (d) submit semi-annual reports on the compliance of such measures to the Employer.

Where unanticipated environmental risks or impacts become apparent during the Contract, the Contractor is required to update the SSEMP/CEMP to outline the potential impacts to site works and associated mitigation measures for the Engineer's approval.

11. Contract Price

11.2 The Contract Price shall not be adjusted in accordance with the provisions of Appendix 2 (Price Adjustment) to the Contract Agreement.

13. Securities

13.3.1 The amount of performance security, as a percentage of the Contract Price for the Facility or for the part of the Facility for which a separate Time for Completion is provided, shall be: ten percent (10%) of the Accepted Contract Amount, in the currencies and proportions in which the Contract Price is payable.

The performance security shall be in the form of a bank guarantee, issued by a reputable bank, as per form included in Section 9: Contract Forms in the amount of 10% of the Contract Price in the currency/ies stated in the bid of the successful bidder. In case the institution issuing the security is located outside the Employer's country, it shall have a correspondent financial institution located in the Employer's

13.3.2 The performance security shall be in the form of a bank guarantee issued by a universal or commercial bank as per form included in Section 9 (Contract Forms).

13.3.3 The performance security shall be reduced to ten percent (10%) of the value of the component covered by the extended defect liability to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Subclause 27.10.

18. Work Program

18.3 Progress Report

"(c) monitoring of the obligations in Sub-Clauses 21.1, 22.1.1, 22.2.3 (d), 22.2.7 (d), 22.2.15, 22.2.16 and 46."

21. Procurement

21.1 Materials

“The Contractor shall adequately record the condition of roads, agricultural land and other infrastructure prior to the start of transporting materials, goods and equipment, and construction.”

22. Installation

22.1.1 Bench Mark

Add the following at the end of Sub-Clause 22.1.1 (end of sub-paragraph a)

- (a) The Contractor shall be responsible for the true and proper setting-out of the Facilities in relation to bench marks, reference marks, and lines provided to it in writing by or on behalf of the Employer. The Contractor shall comply with (i) the measures and requirements relevant to the Contractor which are set forth in the Land Acquisition and Involuntary Resettlement Plan[/Due Diligence Report for Resettlement] included in Annex 3 of this Bidding Document [the , to the extent it concerns impacts on affected people during construction; and (ii) any corrective or preventive actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the Land Acquisition and Involuntary Resettlement Plan [/Due Diligence Report for Resettlement].

The Contractor shall allocate a budget for compliance with these measures, requirements and actions.”

Damage to Property, Crops and Vegetation. The Contractor shall be responsible for any excessive, unanticipated or unnecessary damage to crops or land arising from his operations and shall provide compensation in accordance with the entitlement matrix as found within the Land Acquisition and Involuntary Resettlement Plan.

- (b) If, at any time during the progress of installation of the Facilities, any error shall appear in the position, level, or alignment of the Facilities, the Contractor shall forthwith notify the Project Manager of such error and, at its own expense, immediately rectify such error to the reasonable satisfaction of the Project Manager. If such error is based on incorrect data provided in writing by or on behalf of the Employer, the expense of rectifying the same shall be borne by the Employer.

22.2 Labor

22.2.3 (d) Labor Laws

The Contractor shall not make employment decisions based upon personal characteristics unrelated to job requirements. The Contractor shall base the employment relationship upon equal opportunity and fair treatment, and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment or retirement, and discipline.

The Contractor shall provide equal wages and benefits to men and women for work of equal value or type.”

22.2.5 Working Hours

- (a) Normal working hours are: 8am to 5 pm or 8 hours.

22.2.7 Health and Safety

- (d) The Contractor shall throughout the contract (including the Defect Liability Period):
- (i) conduct Information, Education and Consultation Communication (IEC) campaigns, at least every other month, addressed to all the Site staff and labor (including all the Contractor's employees, all Sub-Contractors and Employer's and Project Manager's employees, and all truck drivers and crew making deliveries to Site for construction activities) and to the immediate local communities, concerning the risks, dangers and impact, and appropriate avoidance behavior with respect to of Sexually Transmitted Diseases (STD)—or Sexually Transmitted Infections (STI) in general and HIV/AIDS in particular;
 - (ii) provide male or female condoms for all Site staff and labor as appropriate; and
 - (iii) provide for STI and HIV/AIDS screening, diagnosis, counseling and referral to a dedicated national STI and HIV/AIDS program, (unless otherwise agreed) of all Site staff and labor.

The Contractor shall include in the program to be submitted for the execution of the Facilities under Subclause 18.2 an alleviation program for Site staff and labor and their families in respect of Sexually Transmitted Infections (STI) and Sexually Transmitted Diseases (STD) including HIV/AIDS. The STI, STD and HIV/AIDS alleviation program shall indicate when, how and at what cost the Contractor plans to satisfy the requirements of this Subclause and the related specification. For each component, the program shall detail the resources to be provided or utilized and any related sub-contracting proposed. The program shall also include provision of a detailed cost estimate with supporting documentation. Payment to the Contractor for the preparation and implementation this program shall not exceed the amount dedicated for this purpose.

- “(e) The Contractor shall conduct health and safety programs for workers employed under the project, and shall include information on the trafficking of women and the risk of sexually transmitted diseases, including HIV/AIDs in such programs.”

- “(f) The Contractor is responsible for establishment of preventive and emergency preparedness and response measures to avoid, and where avoidance is not possible, to minimize, adverse impacts and risks of the construction site work to the health and safety of local communities.

Within 28 days of the Commencement Date the Contractor shall submit a detailed Site Specific Health and Safety Management Plan (SSHSM) for the Engineer's no objection showing how he/she intends to comply with the local Health and Safety laws and regulations and other specific requirements prescribed in the Contract, taking into account the Supplementary Information in Section 6- Employer's Requirements. Work shall not commence on the Site until the confirmation of no objection of the SSHSM has been obtained from the Engineer and is being implemented. Such confirmation of no objection by the Engineer shall not relive the

Contractor of any of his/her obligations or responsibilities under the Contract.

Where unanticipated health and safety hazards or risks become apparent during the Contract, the Contractor is required to update the SSHSMP to outline the potential impacts to site works and associated mitigation measures for the Engineer's no objection.

The Contractor shall comply with the approved SSHSMP and any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor the implementation of the project EMP through the SSHSMP.

In particular, the Contractor is required to provide all personnel on site including Employer's Personnel and visitors with personal protective equipment, including protection for feet (safety boots), head, eyes, ears (safety helmets) and hands, etc. , in accordance with the Contractor's SSHSMP prepared in accordance with Sub-Clause 4.8 [Safety Procedures]. The Contractor should ensure that his Subcontractors comply with the SSHSMP and provide all such necessary equipment to their personnel.

The Contractor shall bear the costs to ensure that such measures, requirements and actions are carried out.

The Contractor shall submit semi-annual reports on the compliance of such measures to the Employer.

(g) The Contractor shall comply with the Health and Safety COVID-19 Plan.

22.2.8 Funeral Arrangements

The Contractor shall be responsible for making the appropriate funeral arrangements for the return or burial of any of the Contractor's personnel or accompanying members of their families.

22.2.16 Prohibition of Harmful Child Labor

"Child "means a child below the statutory minimum age specified under applicable national, provincial or local law of the Philippines

22.2.17 Respectful Work Environment

The Contractor shall ensure that its employees and sub-contractors observe the highest ethical standards and refrain from any form of bullying, discrimination, misconduct and harassment, including sexual harassment and shall, at all times, behave in a manner that creates an environment free of unethical behavior, bullying, misconduct and harassment, including sexual harassment. The Contractor shall take appropriate action against any employees or sub-contractors, including suspension or termination of employment or sub-contract, if any form of unethical or inappropriate behavior is identified.

The Contractor shall conduct training programs for its employees and sub-contractors to raise awareness on and prevent any form of bullying, discrimination, misconduct and harassment including sexual harassment, and to promote a respectful work environment. The Contractor shall keep an up to date record of its employees and subcontractors who

have attended and completed such training programs and provide such records to the Employer or the Engineer at their first written request.

24. Completion of the Facilities

"24.9 Completion of Facilities

Upon the completion of construction, the Contractor shall fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition as recorded by the Contractor in consonance with its obligation in Clause 21.1."

25. Commissioning and Operational Acceptance

25.2.2 The Guarantee Test of the Facilities shall be successfully completed within seven (7) days from the date of Completion.

26. Completion Time Guarantee

26.2 Applicable rate for liquidated damages: One tenth of one percent (1/10 of 1%) of the cost of unperformed portion of the works for every day of delay, as the case may be, in the currencies and proportions in which the Contract Price is payable.

Maximum deduction for liquidated damages: Ten percent (10%) of the final Contract Price

26.3 No bonus will be given for earlier Completion of the Facilities or part thereof.

27. Defect Liability

27.10 The critical components covered under the extended defect liability period shall be three hundred sixty-five (365) days

30. Limitation of Liability

30.1 (b) EA does not intend to have a limitation of liability higher than the Contract Price.

35. Unforeseen Conditions

35.3 "In addition to notice of any Unforeseeable physical conditions, the Contractor shall provide the Engineer with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during construction, implementation or operation of the Plant or Permanent Works, which were not considered in the initial environmental examination/environmental assessment review framework, the environmental management plan or the resettlement plan attached hereto as Annex 1 through Annex 3."

45. Disputes and Arbitration

45.1 The Dispute Board shall be appointed within twenty-eight (28) after the Effective Date.

The Dispute Board shall be the Dispute Adjudication Board (DAB) of three Members
List of potential Dispute Board members is: none

45.2 Appointment (if not agreed) to be made by: Construction Industry Arbitration Commission of the Philippines (CIAC)

45.5 Rules of procedure for arbitration proceedings:

(a) Contracts with foreign contractors:

International arbitration shall be conducted in accordance with the Rules of the Singapore International Arbitration Centre (SIAC).

Arbitration shall be administered by the Singapore International Arbitration Centre (SIAC) or otherwise agreed by both parties

The place of arbitration shall be the place of the institution administering the arbitration.

(b) Contracts with contractors being nationals of the Employer's country:

Any dispute between the Employer and Contractor who is a national of the Philippines arising in connection with the present contract shall be referred to arbitration in accordance with the laws of the Philippines.

46. Eligibility

46.1 The Contractor shall have the nationality of an ADB member country. The Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.

46.2 The materials, equipment and services to be supplied under the Contract shall have their origin in eligible source countries and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, the Contractor may be required to provide evidence of the origin of materials, equipment and services.

46.3 For purposes of SCC 46.2, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.

47. The Contractor shall comply with all applicable national, provincial, and local environmental laws and regulations.

The Contractor shall (a) establish an operational system for managing environmental impacts, (b) carry out all of the monitoring and mitigation measures set forth in the [Initial Environmental Examination ("IEE")/Environmental Assessment Review Framework ("EARF")] or [Environmental Management Plan ("EMP")] and (c) allocate the budget required to ensure that such measures are carried out. The Contractor shall submit semi-annual reports on the carrying out of such measures to the Employer.

More particularly, the Contractor shall comply with (i) the measures and requirements set forth in the initial environmental examination/environmental assessment review framework and the environmental management plan attached hereto as Annex 1; and (ii) any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the initial environmental examination and the environmental management plan.

The Contractor shall allocate a budget for compliance with these measures, requirements and actions."

Section 9 - Contract Forms

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Notification of Award

[*Employer's letterhead*]**Letter of Acceptance**[*date*]To: [*Name and address of the contractor*]

This is to notify you that your Bid dated [*date*] for execution of the [*name of the contract and identification number, as given in the Bid Data Sheet*] for the Contract Price in the aggregate of [*amounts in words and figures*] [*name of currency*], as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract and any additional security required as a result of the evaluation of your bid, using for that purpose one of the Performance Security Forms included in Section 9 (Contract Forms) of the Bidding Document.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT made on the [*insert number*] day of [*insert month*], [*insert year*],

BETWEEN

(1) The PLARIDEL WATER DISTRICT, a corporation incorporated under the laws of the Republic of the Philippines and having its principal place of business at A.C. Reyes St. Poblacion, Plaridel Bulacan (hereinafter called “the Employer”), and (2) [*name of the contractor*], a corporation incorporated under the laws of [*country of the contractor*] and having its principal place of business at [*address of the contractor*] (hereinafter called “the Contractor”).

WHEREAS the Employer desires to engage the Contractor to design, manufacture, test, deliver, install, complete and commission certain Facilities, viz. main office building, car ramp with parking, warehouse and other related works (“the Facilities”) and the Contractor have agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

Article 1

Contract Documents

1.1 Contract Documents (Reference GCC Clause 2)

The following documents shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract:

- (a) This Contract Agreement and the Appendixes hereto
- (b) Letter of Bid and Price Schedules submitted by the Contractor
- (c) Special Conditions of Contract
- (d) List of Eligible Countries that was specified in Section 5 of the Bidding Document
- (e) General Conditions of Contract
- (f) Specifications
- (g) Drawings
- (h) Other completed Bidding Forms submitted with the Letter of Bid
- (i) Any other documents forming part of the Employer’s Requirements

1.2 Order of Precedence (Reference GCC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1 (Contract Documents) above.

1.3 Definitions (Reference GCC Clause 1)

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions.

Article 2**Contract Price and Terms of Payment****2.1 Contract Price** (Reference GCC Clause 11)

The Employer hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be the aggregate of [. . . amounts of foreign currency in words . . .], [. . . amounts in figures. . .] as specified in Price Schedule No. 5 (Grand Summary), [. . . amounts of local currency in words . . .], [. . . amounts in figures. . .], or such other sums as may be determined in accordance with the terms and conditions of the Contract.

2.2 Terms of Payment (Reference GCC Clause 12)

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.

The Employer shall instruct its bank to issue an irrevocable confirmed documentary credit made available to the Contractor in a bank in the country of the Contractor. The credit shall be for an amount of [. . . amount equal to the total named in Schedule 1 less the advance payment to be made for plant and mandatory spare parts supplied from abroad. . .]; and shall be subject to the Uniform Customs and Practice for Documentary Credits 1993 Revision, ICC Publication No. 500.²

In the event that the amount payable under Schedule No. 1 is adjusted in accordance with GCC 11.2 or with any of the other terms of the Contract, the Employer shall arrange for the documentary credit to be amended accordingly

Article 3**Effective Date****3.1 Effective Date** (Reference GCC Clause 1)

The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor.
- (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee.
- (c) The Employer has paid the Contractor the advance payment.
- (d) The Contractor has been advised that the documentary credit referred to in Article 2.2 above has been issued in its favor.

Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

- 3.2 If the conditions listed under 3.1 are not fulfilled within 2 months from the date of this Contract notification because of reasons not attributable to the Contractor, the parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Completion and/or other relevant conditions of the Contract.

² Or Uniform Customs and Practice for Documentary Credits 2007 Revision, ICC Publication No. 600 (or the latest version).

Appendix 1 - Terms and Procedures of Payment

In accordance with the provisions of GCC Clause 12 (Terms of Payment), the Employer shall pay the Contractor in the following manner and at the following times, based on the Price Breakdown given in the section on Price Schedules. Payments will be made in the currencies quoted by the Bidder unless otherwise agreed between the parties. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

(A) Terms of Payment

Schedule No. 1 – Plant and Mandatory Spare Parts Supplied

In respect of plant, works, installation and mandatory spare parts supplied from within the Employer's country, the following payments shall be made:

Ten percent (10%) of the total installation and other services amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of the plant, work performed and mandatory spare parts delivered to the site, as evidenced by delivery documents.

Eighty percent (80%) of the total or pro rata EXW amount upon Incoterm "Ex-Works," upon delivery to the site within 45 days after receipt of invoice.

Five percent (5%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.

Five percent (5%) of the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.

Schedule No. 2 - Design Services

In respect of design services for both the foreign currency and the local currency portions, the following payments shall be made:

Ten percent (10%) of the total design services amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer.

Ninety percent (90%) of the total or pro rata design services amount upon acceptance of design by the Project Manager within forty-five (45) days after receipt of invoice.

Schedule No. 3 – Civil Works and Other Services

In respect of civil works and other services, the following payments shall be made:

Ten percent (10%) of the civil works and other services amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of work performed by the Contractor as evidenced by the invoices for installation services.

Eighty percent (80%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within forty-five (45) days after receipt of invoice.

Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.

Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.

In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of one tenth of one percent (1/10 of 1%) per month for period of delay until payment has been made in full.

(B) Payment Procedures

When applying for certification and making payment for Schedule No. 3 – Civil Works and Other Services, the procedures for payments for the eighty (80) % of the measured value of work performed by the Contractor, as identified in the said Program of Performance, are as follows:

The release of payment shall be based on the periodic actual work accomplishment of the Contractor as reflected in the Monthly Progress Payment Report (MPPR). The Employer (PLAWD) shall certify the correctness of the MPPR to be signed by the General Manager of PLAWD and verified by the LWUA-assigned Engineer. The PLAWD Board of Directors (BOD) shall approve and recommend payment to the Contractor through a BOD Resolution. LWUA shall download the approved amount to PLAWD for payment to the Contractor.

Appendix 2 - Price Adjustment

Except for extraordinary circumstances as determined by the National Economic Development Authority and approved by the Government Procurement Policy Board, no price escalation shall be allowed. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the Government of the Philippines, 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.

Appendix 3 - Insurance Requirements

(A) Types of Insurance to Be Taken Out by the Contractor

In accordance with the provisions of GCC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the types of insurance set forth below in the sums and with the deductibles and other conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, such approval not to be unreasonably withheld.

(a) Cargo Insurance

Covering loss or damage occurring, while in transit from the supplier's or manufacturer's works or stores until arrival at the Site, to the Facilities (including spare parts therefore) and to the construction equipment to be provided by the Contractor or its Subcontractors.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
*	PhP100,000.00	*	*	*

*To be filled up by bidders

(b) Installation All Risks Insurance

Covering physical loss or damage to the Facilities at the Site, occurring prior to completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Contractor is on the Site for the purpose of performing its obligations during the defect liability period.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
*	PhP100,000.00	*	*	*

*To be filled up by bidders

(c) Third Party Liability Insurance

Covering bodily injury or death suffered by third parties (including the Employer's personnel) and loss of or damage to property (including the Employer's property and any parts of the Facilities that have been accepted by the Employer) occurring in connection with the supply and installation of the Facilities.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]

*	PhP100,000.00	*	*	*

*To be filled up by bidders

(d) Automobile Liability Insurance

Covering use of all vehicles used by the Contractor or its Subcontractors (whether owned by them or not) in connection with the supply and installation of the Facilities. Comprehensive insurance in accordance with statutory requirements.

(e) Workers' Compensation

In accordance with the statutory requirements applicable in any country where the Facilities or any part thereof is executed.

(f) Employer's Liability

In accordance with the statutory requirements applicable in any country where the Facilities or any part thereof is executed.

(g) Other Insurance

The Contractor is also required to take out and maintain at its own cost the following types of insurance:

Professional Indemnity Insurance: Without limiting its obligation under the Contract the Contractor shall effect and maintain professional indemnity insurance for a period from the Notice of Award until 6 years after the date of Final Acceptance in the joint names of Contractor and its Lower-Tier Contractors and Contractor's design consultants, including the Engineer-on-Record. This is in respect of any design of the Work that is to be carried out by or on behalf of Contractor, to a limit not less than 8 x the engineering design fees or 15% of the Contract Price, whichever is the greater amount.

Details:

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
*	PhP100,000.00	*	*	*

*To be filled up by the bidder

The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GCC Subclause 34.1, except for the Third Party Liability, Workers' Compensation, and Employer's Liability Insurance, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GCC Subclause 34.1, except for the Cargo, Workers' Compensation and Employer's Liability Insurance. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.

(B) Types of Insurance to Be Taken Out by the Employer

The Employer shall at its expense take out and maintain in effect during the performance of the Contract the following insurance policies.

Details: **Not applicable**

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]

Appendix 4 – Time Schedule

1. Detailed Engineering Design (DED)	One (1) month from effectivity of contract
2. Final Review and Approval of DED	One (1) month from completion of DED
3. Construction of Works	Eight (8) months from approval of DED
4. Environmental Safeguards	Two (2) months from effectivity of contract

One (1) Month = Thirty (30) calendar days

Appendix 5 - List of Major Items of Plant and Services and List of Approved Subcontractors

A list of major items of plant and services is provided below.

The following Subcontractors and Manufacturers are approved for carrying out the item of the facilities indicated. Where more than one Subcontractor is listed, the Contractor is free to choose between them, but it must notify the Employer of its choice in good time prior to appointing any selected Subcontractor. In accordance with GCC Subclause 19.1, the Contractor is free to submit proposals for Subcontractors for additional items from time to time. No Subcontracts shall be placed with any such Subcontractors for additional items until the Subcontractors have been approved in writing by the Employer and their names have been added to this list of Approved Subcontractors.

Major Items of Plant and Services	Approved Subcontractors and Manufacturers	Nationality
Detailed Engineering Design		
Environmental Impact Assessment		

Appendix 6 - Scope of Works and Supply by the Employer

The following personnel, facilities, works, and supplies will be provided or supplied by the Employer, and the provisions of GCC Clauses 10, 21, and 24 shall apply as appropriate.

All personnel, facilities, works, and supplies will be provided by the Employer in good time so as not to delay the performance of the Contractor, in accordance with the approved Time Schedule and Program of Performance pursuant to GCC Subclause 18.2.

Unless otherwise indicated, all personnel, facilities, works, and supplies will be provided free of charge to the Contractor.

Personnel	Charge to Contractor (if any)
NIL	

Facilities	Charge to Contractor (if any)
NIL	

Works	Charge to Contractor (if any)
NIL	

Supplies	Charge to Contractor (if any)
NIL	

Appendix 7 - List of Documents for Approval or Review

Pursuant to GCC Subclause 20.3.1, the Contractor shall prepare, or cause its Subcontractor to prepare, and present to the Project Manager in accordance with the requirements of GCC Subclause 18.2 (Program of Performance), all documents required for submission, as enumerated in Section 6 - Employers Requirements, for review/approval.

Performance Security

..... *Bank's name, and address of issuing branch or office*

Beneficiary: *Name and address of the employer*

Date:

Performance Guarantee No.:

We have been informed that *name of the contractor*. (hereinafter called "the Contractor") has entered into Contract No. *reference number of the contract*. dated with you, for the execution of *name of contract and brief description of plant and services*. (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we *name of the bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in words*¹. (*amount in figures*.) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire no later than the earlier of

(a) 18 months after our receipt of

- (i) a copy of the Completion Certificate; or
- (ii) a registered letter from the Contractor, attaching a copy of the notice to the project manager that the Facilities are ready for commissioning, and stating that 14 days have elapsed from receipt of such notice (or 7 days have elapsed if the notice was a repeated notice) and the project manager has failed to issue a Completion Certificate or inform the Contractor in writing of any defects or deficiencies; or
- (iii) a registered letter from the Contractor stating that no Completion Certificate has been issued but the Employer is making use of the Facilities; or

(b) the ____ day of _____, 2____.

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458 (*or ICC Publication No. 758 as applicable*), except that subparagraph (ii) of Sub-Article 20(a) is hereby excluded.²

¹ The guarantor shall insert an amount representing the percentage of the contract price specified in the contract and denominated either in the currency(ies) of the contract or a freely convertible currency acceptable to the employer.

² Or the same or similar to this clause specified in the Uniform Rules for Demand Guarantees, ICC Publication No. 758, where applicable.

.....
Signature(s) and seal of bank (where appropriate)

If the institution issuing the performance security is located outside the country of the employer, it shall have a correspondent financial institution located in the country of the employer to make it enforceable.

Advance Payment Security

..... *Bank's name, and address of issuing branch or office*

Beneficiary: *Name and address of the employer*

Date:

Advance Payment Guarantee No.:

We have been informed that *name of the contractor*. (hereinafter called "the Contractor") has entered into Contract No. *reference number of the contract*. dated with you, for the execution of *name of contract and brief description of plant and services*. (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum *name of the currency and amount in words*¹. (. *amount in figures*.) is to be made against an advance payment guarantee.

At the request of the Contractor, we *name of the bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in words*². (. *amount in figures*.) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor:

- (a) used the advance payment for purposes other than the costs of mobilization and cash flow support in respect of the Works; or
- (b) has failed to repay the advance payment when it has become due and payable in accordance with the conditions of the Contract, specifying the amount payable by the Contractor.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Contractor on its account number *contractor's account number*. at *name and address of the bank*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates, which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate, indicating that 80% of the Contract Price has been certified for payment, or on the . . . day of , ,³ whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

¹ The guarantor shall insert an amount representing the amount of the advance payment denominated either in the currency(ies) of the advance payment as specified in the contract, or in a freely convertible currency acceptable to the employer.

² Footnote 1.

³ Insert the expected expiration date of the time for completion. The employer should note that in the event of an extension of the time for completion of the contract, the employer would need to request an extension of this guarantee from the guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [6 months][1 year], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458 (or ICC Publication No. 758 as applicable).

.....
Signature(s) and seal of bank (where appropriate)

-- Note to Bidder --

If the institution issuing the advance payment security is located outside the country of the employer, it shall have a correspondent financial institution located in the country of the employer to make it enforceable.

Annexes

- Annex 1 Environmental Assessment and Review Framework**
- Annex 2 Gender Action Plan**
- Annex 3 Due Diligence Report for Resettlement**
- Annex 4 Construction Guidelines for Project Implementation during the period
of Public Health Emergency**