

PHILIPPINE BIDDING DOCUMENTS

Procurement of Goods

**Rehabilitation of Electrical
Power Supply of BatStateU
Malvar Campus, Malvar,
Batangas**

Batangas State University

REPUBLIC OF THE PHILIPPINES
BATANGAS STATE UNIVERSITY
BATANGAS CITY

SECTION I
INVITATION TO BID

**REHABILITATION OF ELECTRICAL POWER SUPPLY OF
BATSTATEU MALVAR CAMPUS, MALVAR, BATANGAS**

1. The Batangas State University, intends to apply the sum of **Two Million Seven Hundred Ninety Two Thousand Six Hundred Four Pesos Only (Php 2,792,604.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Rehabilitation of Electrical Power Supply of BatStateU Malvar Campus, Malvar, Batangas**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The Batangas State University now invites bids for **Rehabilitation of Electrical Power Supply of BatStateU Malvar Campus, Malvar, Batangas** . Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project, equivalent to at least fifty percent (50%) of the ABC. The description of an eligible bidder is contained in the Bidding Documents, particularly, in **Section II Instruction to Bidders**.
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary pass/fail criterion as specified in the Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184).
4. Interested bidders may obtain further information from Batangas State University and inspect the Bidding Documents at the BAC Office, Ground Floor, ITE Building from 8:00 AM to 5:00 PM, or download it from PhilGEPS or from Batangas State University Website (<http://www.batstate-u.edu.ph/>) provided the bidders shall pay the fee for the bidding documents upon submission of their bids. A complete set of Bidding Documents may be purchased by interested Bidders from the above mentioned address starting **September 7, 2015** until the deadline for submission and receipt of bids and upon **submission of letter of intent** and payment of a nonrefundable fee for the Bidding Documents in the amount of **Two Thousand Eight Hundred Pesos (Php 2,800.00)**. Only those who have purchased the Bidding Documents shall be allowed to participate in the pre-bid conference and raise or submit queries or clarifications.
5. The Batangas State University will hold a Pre-Bid Conference on **September 14, 2015, 10:00 A.M. at BAC Office, Ground Floor, ITE Building**, which shall be open to all interested parties who have purchased the Bidding Documents.
6. Bids must be delivered to the above-mentioned address on **September 29, 2015, 1:00-2:00 PM**. Opening of bids will immediately follow. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18. Bids will be opened in the presence of the bidders'

representatives who choose to attend at the address below. Late bids shall not be accepted.

7. The Batangas State University reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

BAC Office, Ground Floor, ITE Building
Batangas State University
Main Campus

Dr. Jessie A. Montalbo
BAC Chairman
Tel. No. 980-0385 local 1811

SECTION II

INSTRUCTIONS TO BIDDERS

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A. General

1. Scope of Bid

- 1.1. The procuring entity named in the **BDS** (hereinafter referred to as the “Procuring Entity”) wishes to receive bids for supply and delivery of the goods as described in Section VII. Technical Specifications (hereinafter referred to as the “Goods”).
- 1.2. The name, identification, and number of lots specific to this bidding are provided in the **BDS**. The contracting strategy and basis of evaluation of lots is described in ITB Clause 28.

2. Source of Funds

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

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

- 3.1. Unless otherwise specified in the **BDS**, the Procuring Entity as well as the bidders and suppliers shall observe the highest standard of ethics during the procurement and execution of the contract. In pursuance of this policy, the Procuring Entity:
 - (a) defines, for purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in RA 3019.
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - (iii) “collusive practices” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.

- (iv) “coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
 - (v) “obstructive practice” is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or
 - (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.
 - (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.
- 3.2. Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in ITB Clause 3.1(a).
- 3.3. Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a bidder or supplier in the bidding for and performance of a contract themselves or through independent auditors as reflected in the GCC Clause 3.

4. Conflict of Interest

- 4.1. All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) below and a general conflict of interest in any of the circumstances set out in paragraphs (d) through (f) below:
- (a) A Bidder has controlling shareholders in common with another Bidder;
 - (b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;

- (c) A Bidder has the same legal representative as that of another Bidder for purposes of this bid;
 - (d) A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process. This will include a firm or an organization who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project if the personnel would be involved in any capacity on the same project;
 - (e) A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid; or
 - (f) A Bidder who participated as a consultant in the preparation of the design or technical specifications of the Goods and related services that are the subject of the bid.
- 4.2. In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:
- (a) If the Bidder is an individual or a sole proprietorship, to the Bidder himself;
 - (b) If the Bidder is a partnership, to all its officers and members;
 - (c) If the Bidder is a corporation, to all its officers, directors, and controlling stockholders; and
 - (d) If the Bidder is a joint venture (JV), the provisions of items (a), (b), or (c) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

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

5. Eligible Bidders

- 5.1. Unless otherwise provided in the **BDS**, the following persons shall be eligible to participate in this bidding:
- (a) Duly licensed Filipino citizens/sole proprietorships;
 - (b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;

- (c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - (d) Cooperatives duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines; and
 - (e) Unless otherwise provided in the **BDS**, persons/entities forming themselves into a JV, *i.e.*, a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that Filipino ownership or interest of the joint venture concerned shall be at least sixty percent (60%).
- 5.2. Foreign bidders may be eligible to participate when any of the following circumstances exist, as specified in the **BDS**:
- (a) When a Treaty or International or Executive Agreement as provided in Section 4 of the RA 9184 and its IRR allow foreign bidders to participate;
 - (b) Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - (c) When the Goods sought to be procured are not available from local suppliers; or
 - (d) When there is a need to prevent situations that defeat competition or restrain trade.
- 5.3. Government corporate entities may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not dependent agencies of the GOP or the Procuring Entity.
- 5.4. Unless otherwise provided in the **BDS**, the Bidder must have completed at least one contract similar to the Project the value of which, adjusted to current prices using the National Statistics Office consumer price index, must be at least equivalent to a percentage of the ABC stated in the **BDS**.

For this purpose, contracts similar to the Project shall be those described in the **BDS**, and completed within the relevant period stated in the Invitation to Bid and **ITB** Clause 12.1(a)(iii).

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

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

Where:

K = 10 for a contract duration of one year or less, 15 for a contract duration of more than one year up to two years, and 20 for a contract duration of more than two years.

The value of the bidder's current assets and current liabilities shall be based on the data submitted to the BIR, through its Electronic Filing and Payment System.

6. Bidder's Responsibilities

- 6.1. The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section VIII – Bidding Forms as required in **ITB** Clause 12.1(b)(iii).
- 6.2. The Bidder is responsible for the following:
 - (a) Having taken steps to carefully examine all of the Bidding Documents;
 - (b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
 - (c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;
 - (d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) as provided under **ITB** Clause 10.3.
 - (e) Ensuring that it is not “blacklisted” or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;
 - (f) Ensuring that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
 - (g) Authorizing the Head of the Procuring Entity or its duly authorized representative/s to verify all the documents submitted;
 - (h) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary's Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;
 - (i) Complying with the disclosure provision under Section 47 of RA 9184 in relation to other provisions of RA 3019; and
 - (j) Complying with existing labor laws and standards, in the case of procurement of services.

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

- 6.3. The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.

- 6.4. It shall be the sole responsibility of the Bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to the contract to be bid, including: (a) the location and the nature of this Project; (b) climatic conditions; (c) transportation facilities; and (d) other factors that may affect the cost, duration, and execution or implementation of this Project.
- 6.5. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity.
- 6.6. The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 6.7. Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.
- 6.8. The Bidder should note that the Procuring Entity will accept bids only from those that have paid the nonrefundable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. Origin of Goods

Unless otherwise indicated in the **BDS**, there is no restriction on the origin of goods other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, subject to **ITB** Clause 27.1.

8. Subcontracts

- 8.1. Unless otherwise specified in the **BDS**, the Bidder may subcontract portions of the Goods to an extent as may be approved by the Procuring Entity and stated in the **BDS**. However, subcontracting of any portion shall not relieve the Bidder from any liability or obligation that may arise from the contract for this Project.
- 8.2. Subcontractors must comply with the eligibility criteria and the documentary requirements specified in the **BDS**. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.
- 8.3. The Bidder may identify the subcontractor to whom a portion of the Goods will be subcontracted at any stage of the bidding process or during contract implementation. If the Bidder opts to disclose the name of the subcontractor during bid submission, the Bidder shall include the required documents as part of the technical component of its bid.

B. Contents of Bidding Documents

9. Pre-Bid Conference

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

(b) *The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission and receipt of bids. If the Procuring Entity determines that, by reason of the method, nature, or complexity of the contract to be bid, or when international participation will be more advantageous to the GOP, a longer period for the preparation of bids is necessary, the pre-bid conference shall be held at least thirty (30) calendar days before the deadline for the submission and receipt of bids, as specified in the **BDS**.*

- 9.2. Bidders are encouraged to attend the pre-bid conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the Bidder will in no way prejudice its bid; however, the Bidder is expected to know the changes and/or amendments to the Bidding Documents discussed during the pre-bid conference.
- 9.3. Any statement made at the pre-bid conference shall not modify the terms of the Bidding Documents unless such statement is specifically identified in writing as an amendment thereto and issued as a Supplemental/Bid Bulletin.

10. Clarification and Amendment of Bidding Documents

- 10.1. Bidders who have purchased the Bidding Documents may request for clarification on any part of the Bidding Documents for an interpretation. Such request must be in writing and submitted to the Procuring Entity at the address indicated in the **BDS** at least ten (10) calendar days before the deadline set for the submission and receipt of bids.
- 10.2. Supplemental/Bid Bulletins may be issued upon the Procuring Entity's initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of bids. Any modification to the Bidding Documents shall be identified as an amendment.
- 10.3. Any Supplemental/Bid Bulletin issued by the BAC shall also be posted on the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity concerned, if available. It shall be the responsibility of all Bidders who secure the Bidding Documents to inquire and secure Supplemental/Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental/Bid Bulletin must be informed and allowed to modify or withdraw their bids in accordance with **ITB** Clause 23.

C. Preparation of Bids

11. Language of Bid

The bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring Entity, shall be written in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation in English certified by the appropriate embassy or consulate in the Philippines, in which case the English translation shall govern for purposes of interpretation of the bid.

12. Documents Comprising the Bid: Eligibility and Technical Components

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

(a) Eligibility Documents –

Class “A” Documents:

- (i) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the **BDS**;
- (ii) Mayor’s permit issued by the city or municipality where the principal place of business of the prospective bidder is located;
- (iii) Statement of all its ongoing and completed government and private contracts within the period stated in the **BDS**, including contracts awarded but not yet started, if any. The statement shall include, for each contract, the following:
 - (iii.1) name of the contract;
 - (iii.2) date of the contract;
 - (iii.3) kinds of Goods;
 - (iii.4) amount of contract and value of outstanding contracts;
 - (iii.5) date of delivery; and
 - (iii.6) end user’s acceptance or official receipt(s) issued for the contract, if completed.
- (iv) Audited financial statements, stamped “received” by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions, for the preceding calendar year, which should not be earlier than two (2) years from bid submission;
- (v) NFCC computation in accordance with ITB Clause 5.5;
- (vi) Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR; and

Class “B” Document:

- (vii) If applicable, the JVA in case the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

(b) Technical Documents –

- (i) Bid security in accordance with **ITB** Clause 18. If the Bidder opts to submit the bid security in the form of:
 - (i.1) a bank draft/guarantee or an irrevocable letter of credit issued by a foreign bank, it shall be accompanied by a confirmation from a Universal or Commercial Bank; or
 - (i.2) a surety bond, it shall be accompanied by a certification by the Insurance Commission that the surety or insurance company is authorized to issue such instruments;
- (ii) Conformity with technical specifications, as enumerated and specified in Sections VI and VII of the Bidding Documents; and
- (iii) Sworn statement in accordance with Section 25.2(a)(iv) of the IRR of RA 9184 and using the form prescribed in Section VIII – Bidding Forms.

13. Documents Comprising the Bid: Financial Component

- 13.1. Unless otherwise stated in the **BDS**, the financial component of the bid shall contain the following:
 - (a) Financial Bid Form, which includes bid prices and the bill of quantities and the applicable Price Schedules, in accordance with **ITB** Clauses 15.1 and 15.4;
 - (b) If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification from the DTI, SEC, or CDA issued in accordance with **ITB** Clause 27, unless otherwise provided in the **BDS**; and
 - (c) Any other document related to the financial component of the bid as stated in the **BDS**.
- 13.2.
 - (a) Unless otherwise stated in the **BDS**, all bids that exceed the ABC shall not be accepted.
 - (b) Unless otherwise indicated in the **BDS**, for foreign-funded procurement, a ceiling may be applied to bid prices provided the following conditions are met:
 - (i) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the procuring entity, payment could be made upon the submission of bids.
 - (ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the responsible unit of the procuring entity and that the estimates reflect the quality, supervision and risk and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.
 - (iii) The procuring entity has trained cost estimators on estimating prices and analyzing bid variances.

- (iv) The procuring entity has established a system to monitor and report bid prices relative to ABC and engineer's/procuring entity's estimate.
- (v) The procuring entity has established a system to monitor and report bid prices relative to ABC and procuring entity's estimate. The procuring entity has established a monitoring and evaluation system for contract implementation to provide a feedback on actual total costs of goods and works.

14. Alternative Bids

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

15. Bid Prices

- 15.1. The Bidder shall complete the appropriate Price Schedules included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under this Project.
- 15.2. The Bidder shall fill in rates and prices for all items of the Goods described in the Bill of Quantities. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Bill of Quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free to the Government.
- 15.3. The terms Ex Works (EXW), Cost, Insurance and Freight (CIF), Cost and Insurance Paid to (CIP), Delivered Duty Paid (DDP), and other trade terms used to describe the obligations of the parties, shall be governed by the rules prescribed in the current edition of the International Commercial Terms (INCOTERMS) published by the International Chamber of Commerce, Paris.
- 15.4. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - (a) For Goods offered from within the Procuring Entity's country:
 - (i) The price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable:
 - (i.1) on the components and raw material used in the manufacture or assembly of Goods quoted ex works or ex factory; or
 - (i.2) on the previously imported Goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf and

any Procuring Entity country sales and other taxes which will be payable on the Goods if the contract is awarded.

- (ii) The price for inland transportation, insurance, and other local costs incidental to delivery of the Goods to their final destination.
 - (iii) The price of other (incidental) services, if any, listed in the **BDS**.
- (b) For Goods offered from abroad:
- (i) Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted DDP with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - (ii) The price of other (incidental) services, if any, listed in the **BDS**.
- 15.5. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation or price escalation on any account. A bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected, pursuant to **ITB** Clause 24.

All bid prices shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances. Extraordinary circumstances refer to events that may be determined by the National Economic and Development Authority in accordance with the Civil Code of the Philippines, and upon the recommendation of the Procuring Entity. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GOP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

16. Bid Currencies

- 16.1. Prices shall be quoted in the following currencies:
- (a) For Goods that the Bidder will supply from within the Philippines, the prices shall be quoted in Philippine Pesos.
 - (b) For Goods that the Bidder will supply from outside the Philippines, the prices may be quoted in the currency(ies) stated in the **BDS**. However, for purposes of bid evaluation, bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 16.2. If so allowed in accordance with **ITB** Clause 16.1, the Procuring Entity for purposes of bid evaluation and comparing the bid prices will convert the amounts in various currencies in which the bid price is expressed to Philippine Pesos at the foregoing exchange rates.
- 16.3. Unless otherwise specified in the **BDS**, payment of the contract price shall be made in Philippine Pesos.

17. Bid Validity

- 17.1. Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.
- 17.2. In exceptional circumstances, prior to the expiration of the Bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

18. Bid Security

- 18.1. The bid security in the amount stated in the **BDS** shall be equal to the percentage of the ABC in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Equal to Percentage of the ABC)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	Two percent (2%)
(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	
(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)
(d) Any combination of items (a) to (c) above	Proportionate to share of form with respect to total amount of security
(e) Bid Securing Declaration	No percentage required

For biddings conducted by LGUs, the Bidder may also submit bid securities in the form of cashier's/manager's check, bank draft/guarantee, or irrevocable letter of credit from other banks certified by the BSP as authorized to issue such financial statement.

The Bid Securing Declaration mentioned above is an undertaking which states, among others, that the bidder shall enter into contract with the procuring entity and furnish the performance security required under **ITB** Clause 33.2, from receipt of the Notice of Award, and committing to pay the corresponding fine, and be suspended for a period of time from being qualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as provided in the guidelines issued by the GPPB.

- 18.2 The bid security should be valid for the period specified in the **BDS**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.
- 18.3 No bid securities shall be returned to bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a motion for reconsideration and/or protest. Without prejudice on its forfeiture, bid securities shall be returned only after the bidder with the Lowest Calculated and Responsive Bid has signed the contract and furnished the performance security, but in no case later than the expiration of the bid security validity period indicated in **ITB** Clause 18.2.
- 18.4 Upon signing and execution of the contract pursuant to **ITB** Clause 32, and the posting of the performance security pursuant to **ITB** Clause 33, the successful Bidder's bid security will be discharged, but in no case later than the bid security validity period as indicated in the **ITB** Clause 18.2.
- 18.5 The bid security may be forfeited:
- (a) if a Bidder:
- (i) withdraws its bid during the period of bid validity specified in **ITB** Clause 17;
 - (ii) does not accept the correction of errors pursuant to **ITB** Clause 28.3(b);
 - (iii) fails to submit the requirements within the prescribed period or a finding against their veracity as stated in **ITB** Clause 29.2;
 - (iv) submission of eligibility requirements containing false information or falsified documents;
 - (v) submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding;
 - (vi) allowing the use of one's name, or using the name of another for purposes of public bidding;
 - (vii) withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the Lowest Calculated and Responsive Bid;
 - (viii) refusal or failure to post the required performance security within the prescribed time;
 - (ix) refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification;
 - (x) any documented attempt by a bidder to unduly influence the outcome of the bidding in his favor;

- (xi) failure of the potential joint venture partners to enter into the joint venture after the bid is declared successful; or
 - (xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.
- (b) if the successful Bidder:
- (i) fails to sign the contract in accordance with **ITB** Clause 32; or
 - (ii) fails to furnish performance security in accordance with **ITB** Clause 33.

19. Format and Signing of Bids

- 19.1. Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in Section VIII – Bidding Forms on or before the deadline specified in the **ITB** Clauses 21 in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously. The first shall contain the technical component of the bid, including the eligibility requirements under **ITB** Clause 12.1, and the second shall contain the financial component of the bid.
- 19.2. Forms as mentioned in **ITB** Clause 19.1 must be completed without any alterations to their format, and no substitute form shall be accepted. All blank spaces shall be filled in with the information requested.
- 19.3. The Bidder shall prepare and submit an original of the first and second envelopes as described in **ITB** Clauses 12 and 13. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 19.4. The bid, except for unamended printed literature, shall be signed, and each and every page thereof shall be initialed, by the duly authorized representative/s of the Bidder.
- 19.5. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

20. Sealing and Marking of Bids

- 20.1. Bidders shall enclose their original eligibility and technical documents described in **ITB** Clause 12 in one sealed envelope marked “ORIGINAL - TECHNICAL COMPONENT”, and the original of their financial component in another sealed envelope marked “ORIGINAL - FINANCIAL COMPONENT”, sealing them all in an outer envelope marked “ORIGINAL BID”.
- 20.2. Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as “COPY NO. ___ - TECHNICAL COMPONENT” and “COPY NO. ___ - FINANCIAL COMPONENT” and the outer envelope as “COPY NO. ___”, respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.

- 20.3. The original and the number of copies of the Bid as indicated in the **BDS** shall be typed or written in indelible ink and shall be signed by the bidder or its duly authorized representative/s.
- 20.4. All envelopes shall:
- (a) contain the name of the contract to be bid in capital letters;
 - (b) bear the name and address of the Bidder in capital letters;
 - (c) be addressed to the Procuring Entity's BAC in accordance with **ITB** Clause 1.1;
 - (d) bear the specific identification of this bidding process indicated in the **ITB** Clause 1.2; and
 - (e) bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids, in accordance with **ITB** Clause 21.
- 20.5. If bids are not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the bid.

D. Submission and Opening of Bids

21. Deadline for Submission of Bids

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

22. Late Bids

Any bid submitted after the deadline for submission and receipt of bids prescribed by the Procuring Entity, pursuant to **ITB** Clause 21, shall be declared "Late" and shall not be accepted by the Procuring Entity.

23. Modification and Withdrawal of Bids

23.1. The Bidder may modify its bid after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Bidder shall not be allowed to retrieve its original bid, but shall be allowed to submit another bid equally sealed, properly identified, linked to its original bid marked as "TECHNICAL MODIFICATION" or "FINANCIAL MODIFICATION" and stamped "received" by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the Bidder unopened.

23.2. A Bidder may, through a Letter of Withdrawal, withdraw its bid after it has been submitted, for valid and justifiable reason; provided that the Letter of Withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids.

23.3. Bids requested to be withdrawn in accordance with **ITB** Clause 23.1 shall be returned unopened to the Bidders. A Bidder may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of bids. A Bidder that

withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.

- 23.4. No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Financial Bid Form. Withdrawal of a bid during this interval shall result in the forfeiture of the Bidder's bid security, pursuant to **ITB** Clause 18.4, and the imposition of administrative, civil and criminal sanctions as prescribed by RA 9184 and its IRR.

24. Opening and Preliminary Examination of Bids

- 24.1. The BAC shall open the first bid envelopes of Bidders in public as specified in the **BDS** to determine each Bidder's compliance with the documents prescribed in **ITB** Clause 12. For this purpose, the BAC shall check the submitted documents of each bidder against a checklist of required documents to ascertain if they are all present, using a non-discretionary "pass/fail" criterion. If a bidder submits the required document, it shall be rated "passed" for that particular requirement. In this regard, bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed". Otherwise, the BAC shall rate the said first bid envelope as "passed".
- 24.2. Unless otherwise specified in the BDS, immediately after determining compliance with the requirements in the first envelope, the BAC shall forthwith open the second bid envelope of each remaining eligible bidder whose first bid envelope was rated "passed". The second envelope of each complying bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in **ITB** Clause 13.2, the BAC shall rate the bid concerned as "failed". Only bids that are determined to contain all the bid requirements for both components shall be rated "passed" and shall immediately be considered for evaluation and comparison.
- 24.3. Letters of withdrawal shall be read out and recorded during bid opening, and the envelope containing the corresponding withdrawn bid shall be returned to the Bidder unopened. If the withdrawing Bidder's representative is in attendance, the original bid and all copies thereof shall be returned to the representative during the bid opening. If the representative is not in attendance, the bid shall be returned unopened by registered mail. The Bidder may withdraw its bid prior to the deadline for the submission and receipt of bids, provided that the corresponding Letter of Withdrawal contains a valid authorization requesting for such withdrawal, subject to appropriate administrative sanctions.
- 24.4. If a Bidder has previously secured a certification from the Procuring Entity to the effect that it has previously submitted the above-enumerated Class "A" Documents, the said certification may be submitted in lieu of the requirements enumerated in **ITB** Clause 12.1(a), items (i) to (v).
- 24.5. In the case of an eligible foreign Bidder as described in **ITB** Clause 5, the Class "A" Documents described in **ITB** Clause 12.1(a) may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign Bidder concerned.

- 24.6. Each partner of a joint venture agreement shall likewise submit the requirements in **ITB** Clauses 12.1(a)(i) and 12.1(a)(ii). Submission of documents required under **ITB** Clauses 12.1(a)(iii) to 12.1(a)(v) by any of the joint venture partners constitutes compliance.
- 24.7. The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price, bid security, findings of preliminary examination; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.

E. Evaluation and Comparison of Bids

25. Process to be Confidential

- 25.1. Members of the BAC, including its staff and personnel, as well as its Secretariat and TWG, are prohibited from making or accepting any kind of communication with any bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of **ITB** Clause 26.
- 25.2. Any effort by a bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the Bidder's bid.

26. Clarification of Bids

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

27. Domestic Preference

- 27.1. Unless otherwise stated in the **BDS**, the Procuring Entity will grant a margin of preference for the purpose of comparison of bids in accordance with the following:
 - (a) The preference shall be applied when (i) the lowest Foreign Bid is lower than the lowest bid offered by a Domestic Bidder, or (ii) the lowest bid offered by a non-Philippine national is lower than the lowest bid offered by a Domestic Entity.
 - (b) For evaluation purposes, the lowest Foreign Bid or the bid offered by a non-Philippine national shall be increased by fifteen percent (15%).
 - (c) In the event that (i) the lowest bid offered by a Domestic Entity does not exceed the lowest Foreign Bid as increased, or (ii) the lowest bid offered by a non-Philippine national as increased, then the Procuring Entity shall award the contract to the Domestic Bidder/Entity at the amount of the lowest Foreign Bid or the bid offered by a non-Philippine national, as the case may be.
 - (d) If the Domestic Entity/Bidder refuses to accept the award of contract at the amount of the Foreign Bid or bid offered by a non-Philippine national within two (2) calendar days from receipt of written advice from the

BAC, the Procuring Entity shall award to the bidder offering the Foreign Bid or the non-Philippine national, as the case may be, subject to post-qualification and submission of all the documentary requirements under these Bidding Documents.

- 27.2. A Bidder may be granted preference as a Domestic Entity subject to the certification from the DTI (in case of sole proprietorships), SEC (in case of partnerships and corporations), or CDA (in case of cooperatives) that the (a) sole proprietor is a citizen of the Philippines or the partnership, corporation, cooperative, or association is duly organized under the laws of the Philippines with at least seventy five percent (75%) of its interest or outstanding capital stock belonging to citizens of the Philippines, (b) habitually established in business and habitually engaged in the manufacture or sale of the merchandise covered by his bid, and (c) the business has been in existence for at least five (5) consecutive years prior to the advertisement and/or posting of the Invitation to Bid for this Project.
- 27.3. A Bidder may be granted preference as a Domestic Bidder subject to the certification from the DTI that the Bidder is offering unmanufactured articles, materials or supplies of the growth or production of the Philippines, or manufactured articles, materials, or supplies manufactured or to be manufactured in the Philippines substantially from articles, materials, or supplies of the growth, production, or manufacture, as the case may be, of the Philippines.

28. Detailed Evaluation and Comparison of Bids

- 28.1. The Procuring Entity will undertake the detailed evaluation and comparison of bids which have passed the opening and preliminary examination of bids, pursuant to **ITB** Clause 24, in order to determine the Lowest Calculated Bid.
- 28.2. The Lowest Calculated Bid shall be determined in two steps:
- (a) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and
 - (b) The ranking of the total bid prices as so calculated from the lowest to the highest. The bid with the lowest price shall be identified as the Lowest Calculated Bid.
- 28.3. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all bids rated "passed," using non-discretionary pass/fail criteria. Unless otherwise specified in the **BDS**, the BAC shall consider the following in the evaluation of bids:
- (a) Completeness of the bid. Unless the ITB specifically allows partial bids, bids not addressing or providing all of the required items in the Schedule of Requirements including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free to the Procuring Entity; and

- (b) Arithmetical corrections. Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications, if allowed in the **BDS**. Any adjustment shall be calculated in monetary terms to determine the calculated prices.
- 28.4. Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the Lowest Calculated Bid. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the **BDS**.
- 28.5. The Procuring Entity's evaluation of bids shall only be based on the bid price quoted in the Financial Bid Form.
- 28.6. Bids shall be evaluated on an equal footing to ensure fair competition. For this purpose, all bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value added tax (VAT), income tax, local taxes, and other fiscal levies and duties which shall be itemized in the bid form and reflected in the detailed estimates. Such bids, including said taxes, shall be the basis for bid evaluation and comparison.

29. Post-Qualification

- 29.1. The Procuring Entity shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid (LCB) complies with and is responsive to all the requirements and conditions specified in **ITB** Clauses 5, 12, and 13.
- 29.2. Within a non-extendible period of three (3) calendar days from receipt by the bidder of the notice from the BAC that it submitted the LCB, the Bidder shall submit the following documentary requirements:
- (a) Latest income and business tax returns in the form specified in the **BDS**;
 - (b) Certificate of PhilGEPS Registration; and
 - (c) Other appropriate licenses and permits required by law and stated in the **BDS**.

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

- 29.3. The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted pursuant to **ITB** Clauses 12 and 13, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary "pass/fail" criterion.
- 29.4. If the BAC determines that the Bidder with the Lowest Calculated Bid passes all the criteria for post-qualification, it shall declare the said bid as the Lowest Calculated Responsive Bid, and recommend to the Head of the Procuring Entity

the award of contract to the said Bidder at its submitted price or its calculated bid price, whichever is lower.

- 29.5. A negative determination shall result in rejection of the Bidder's Bid, in which event the Procuring Entity shall proceed to the next Lowest Calculated Bid to make a similar determination of that Bidder's capabilities to perform satisfactorily. If the second Bidder, however, fails the post qualification, the procedure for post qualification shall be repeated for the Bidder with the next Lowest Calculated Bid, and so on until the Lowest Calculated Responsive Bid is determined for contract award.
- 29.6. Within a period not exceeding seven (7) calendar days from the date of receipt of the recommendation of the BAC, the Head of the Procuring Entity shall approve or disapprove the said recommendation. In the case of GOCCs and GFIs, the period provided herein shall be fifteen (15) calendar days.

30. Reservation Clause

- 30.1. Notwithstanding the eligibility or post-qualification of a Bidder, the Procuring Entity concerned reserves the right to review its qualifications at any stage of the procurement process if it has reasonable grounds to believe that a misrepresentation has been made by the said Bidder, or that there has been a change in the Bidder's capability to undertake the project from the time it submitted its eligibility requirements. Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will affect its capability to undertake the project so that it fails the preset eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as ineligible and shall disqualify it from submitting a bid or from obtaining an award or contract.
- 30.2. Based on the following grounds, the Procuring Entity reserves the right to reject any and all bids, declare a failure of bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:
- (a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;
 - (b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or
 - (c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOP as follows:
 - (i) If the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the head of the procuring entity;

- (ii) If the project is no longer necessary as determined by the head of the procuring entity; and
 - (iii) If the source of funds for the project has been withheld or reduced through no fault of the Procuring Entity.
- 30.3. In addition, the Procuring Entity may likewise declare a failure of bidding when:
- (a) No bids are received;
 - (b) All prospective Bidders are declared ineligible;
 - (c) All bids fail to comply with all the bid requirements or fail post-qualification; or
 - (d) The Bidder with the Lowest Calculated Responsive Bid (LCRB) refuses, without justifiable cause to accept the award of contract, and no award is made.

F. Award of Contract

31. Contract Award

- 31.1. Subject to **ITB** Clause 29, the Procuring Entity shall award the contract to the Bidder whose bid has been determined to be the LCRB.
- 31.2. Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award received personally or sent by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.
- 31.3. Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:
- (a) Submission of the valid JVA, if applicable, within ten (10) calendar days from receipt by the Bidder of the notice from the BAC that the Bidder has the LCRB;
 - (b) Posting of the performance security in accordance with **ITB** Clause 33;
 - (c) Signing of the contract as provided in **ITB** Clause 32; and
 - (d) Approval by higher authority, if required.
- 31.4. At the time of contract award, the Procuring Entity shall not increase or decrease the quantity of goods originally specified in Section VI-Schedule of Requirements.

32. Signing of the Contract

- 32.1. At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Contract Form to the

Bidder, which contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.

- 32.2. Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security and sign and date the contract and return it to the Procuring Entity.
- 32.3. The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.
- 32.4. The following documents shall form part of the contract:
 - (a) Contract Agreement;
 - (b) Bidding Documents;
 - (c) Winning bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted;
 - (d) Performance Security;
 - (e) Credit line in accordance with **ITB** Clause 0, if applicable;
 - (f) Notice of Award of Contract; and
 - (g) Other contract documents that may be required by existing laws and/or specified in the **BDS**.

33. Performance Security

- 33.1. To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.
- 33.2. The performance security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount equal to the percentage of the total contract price in accordance with the following schedule:

Form of Performance Security	Amount of Performance Security (Equal to Percentage of the Total Contract Price)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	Five percent (5%)
(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	
(c) Surety bond callable upon	Thirty percent (30%)

demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security; and/or	
(d) Any combination of the foregoing.	Proportionate to share of form with respect to total amount of security

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

34. Notice to Proceed

34.1. Within three (3) calendar days from the date of approval of the contract by the appropriate government approving authority, the Procuring Entity shall issue its Notice to Proceed to the Bidder.

34.2. The contract effectivity date shall be provided in the Notice to Proceed by the Procuring Entity, which date shall not be later than seven (7) calendar days from the issuance of the Notice to Proceed.

35. Protest Mechanism

Decision of the Procuring Entity at any stage of the procurement process may be questioned in accordance with Section 55 of the Revised Implementing Rules and Regulations of Republic Act 9184.

SECTION III BID DATA SHEETS

ITB Clause	
1.1	The Procuring Entity is <i>Batangas State University.</i>
1.2	Rehabilitation of Electrical Power Supply of BatStateU Malvar Campus, Malvar, Batangas.
2	The Funding Source is: The Government of the Philippines (GOP) in the amount of Two Million Seven Hundred Ninety Two Thousand Six Hundred Four Pesos Only (Php 2,792,604.00). The name of the Project is Rehabilitation of Electrical Power Supply of BatStateU Malvar Campus, Malvar, Batangas. The identification number of the Project is BSU-Project NO. 2015-282.
5.1	No further instructions.
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4	Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC
7	No further instructions.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on <i>September 14, 2015, 10:00 AM.</i> <i>BAC Office</i> <i>Ground Floor, ITE Building</i> <i>Batangas State University, GPB Campus I</i> <i>Rizal Avenue Extension, Batangas City</i>
10.1	The Procuring Entity's address is: <i>2nd Floor, Administration Building,</i> <i>Batangas State University, GPB Campus I</i> <i>Rizal Avenue Extension, Batangas City</i> <i>Dr. Jessie A. Montalbo</i> <i>BAC Chairman</i> <i>Tel No. 980-0385 local 1811</i>
12.1(a)	<i>No further instructions.</i>
12.1(a)(i)	No other acceptable proof of registration is recognized.

12.1(a)(iii)	The statement “covers all ongoing and completed government and private contracts” shall include all such contracts within three (3) years prior to the deadline for the submission and receipt of bids.
13.1	No additional requirements
13.1 (b)	No further instructions.
13.2	The Total ABC is Two Million Seven Hundred Ninety Two Thousand Six Hundred Four Pesos Only (Php 2,792,604.00) . Any bid with a financial component exceeding this amount shall not be accepted.
15.4(a)(iii)	No incidental services are required.
15.4(b)(iii)	Not applicable No incidental services are required.
16.1(b)	The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos.
16.3	Not applicable.
17.1	Bid validity period is One Hundred Twenty (120) calendar days from the date of opening of bids.
18.1	The bid security shall be in the following amount: <ol style="list-style-type: none"> 1. Two (2%) of the ABC, if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit; 2. Five (5%) of the ABC if bid security is in Surety Bond; or 3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security. 4. Bid Securing Declaration (Use BatStateU Goods Form No. 5c)
18.2	The validity period for bid security is One Hundred twenty (120) calendar days from the date of opening of bid.
20.3	Each Bidder shall submit one (1) original and two (2) copies of the first and second components of its bid.
21	The address for submission of bids is BAC Office Ground Floor, ITE Building Batangas State University, GPPB Campus I Rizal Avenue Extension, Batangas City The deadline for submission of bids is 1:00 to 2:00 PM, September 29, 2015.
24.1	The place of bid opening is

	<p>BAC Office Ground Floor, ITE Building Batangas State University, GPPB Campus I Rizal Avenue Extension, Batangas City</p> <p>The date and time of bid opening is 2:00 PM, September 29, 2015.</p>
24.2	No further instructions.
27.1	No further instructions.
28.3	The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
28.3(b)	<i>Bid modification is not allowed.</i>
28.4	No further instructions.
29.2(a)	No further instructions.
29.2(b)	<p><i>Bidders have option to submit manually filed tax returns or tax returns filed through the Electronic Filing and Payments System (EFPS).</i></p> <p><i>NOTE: The latest income and business tax returns are those within the last six months preceding the date of bid submission.</i></p>
29.2(d)	<i>No other licenses required.</i>
32.4(g)	<i>No other contract documents needed.</i>
34.2	<i>No further instructions.</i>

SECTION IV

GENERAL CONDITIONS OF THE CONTRACT

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1. Definitions

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

- 1.1. The **Arbiter** is the person appointed jointly by the Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in **GCC** Clause 21.
- 1.2. **Bill of Quantities** refers to a list of the specific items of the Work and their corresponding unit prices, lump sums, and/or provisional sums.
- 1.3. The **Completion Date** is the date of completion of the Works as certified by the Procuring Entity's Representative, in accordance with **GCC** Clause 49.
- 1.4. The **Contract** is the contract between the Procuring Entity and the Contractor to execute, complete, and maintain the Works.
- 1.5. The **Contract Price** is the price stated in the Letter of Acceptance and thereafter to be paid by the Procuring Entity to the Contractor for the execution of the Works in accordance with this Contract.
- 1.6. **Contract Time Extension** is the allowable period for the Contractor to complete the Works in addition to the original Completion Date stated in this Contract.
- 1.7. The **Contractor** is the juridical entity whose proposal has been accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded.
- 1.8. The **Contractor's Bid** is the signed offer or proposal submitted by the Contractor to the Procuring Entity in response to the Bidding Documents.
- 1.9. **Days** are calendar days; months are calendar months.
- 1.10. **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.
- 1.11. A **Defect** is any part of the Works not completed in accordance with the Contract.
- 1.12. The **Defects Liability Certificate** is the certificate issued by Procuring Entity's Representative upon correction of defects by the Contractor.
- 1.13. The **Defects Liability Period** is the one year period between contract completion and final acceptance within which the Contractor assumes the responsibility to undertake the repair of any damage to the Works at his own expense.
- 1.14. **Drawings** are graphical presentations of the Works. They include all supplementary details, shop drawings, calculations, and other information provided or approved for the execution of this Contract.
- 1.15. **Equipment** refers to all facilities, supplies, appliances, materials or things required for the execution and completion of the Work provided by the Contractor and which shall not form or are not intended to form part of the Permanent Works.
- 1.16. The **Intended Completion Date** refers to the date specified in the **SCC** when the Contractor is expected to have completed the Works. The Intended Completion Date may be revised only by the Procuring Entity's Representative by issuing an extension of time or an acceleration order.
- 1.17. **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.

- 1.18. The **Notice to Proceed** is a written notice issued by the Procuring Entity or the Procuring Entity's Representative to the Contractor requiring the latter to begin the commencement of the work not later than a specified or determinable date.
- 1.19. **Permanent Works** all permanent structures and all other project features and facilities required to be constructed and completed in accordance with this Contract which shall be delivered to the Procuring Entity and which shall remain at the Site after the removal of all Temporary Works.
- 1.20. **Plant** refers to the machinery, apparatus, and the like intended to form an integral part of the Permanent Works.
- 1.21. The **Procuring Entity** is the party who employs the Contractor to carry out the Works stated in the **SCC**.
- 1.22. The **Procuring Entity's Representative** refers to the Head of the Procuring Entity or his duly authorized representative, identified in the **SCC**, who shall be responsible for supervising the execution of the Works and administering this Contract.
- 1.23. The **Site** is the place provided by the Procuring Entity where the Works shall be executed and any other place or places which may be designated in the **SCC**, or notified to the Contractor by the Procuring Entity's Representative as forming part of the Site.
- 1.24. **Site Investigation Reports** are those that were included in the Bidding Documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.
- 1.25. **Slippage** is a delay in work execution occurring when actual accomplishment falls below the target as measured by the difference between the scheduled and actual accomplishment of the Work by the Contractor as established from the work schedule. This is actually described as a percentage of the whole Works.
- 1.26. **Specifications** means the description of Works to be done and the qualities of materials to be used, the equipment to be installed and the mode of construction.
- 1.27. The **Start Date**, as specified in the **SCC**, is the date when the Contractor is obliged to commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- 1.28. A **Subcontractor** is any person or organization to whom a part of the Works has been subcontracted by the Contractor, as allowed by the Procuring Entity, but not any assignee of such person.
- 1.29. **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Permanent Works.
- 1.30. **Work(s)** refer to the Permanent Works and Temporary Works to be executed by the Contractor in accordance with this Contract, including (i) the furnishing of all labor, materials, equipment and others incidental, necessary or convenient to the complete execution of the Works; (ii) the passing of any tests before acceptance by the Procuring Entity's Representative; (iii) and the carrying out of all duties and obligations of the Contractor imposed by this Contract as described in the **SCC**.

2. Interpretation

- 2.1. In interpreting the Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of this Contract unless specifically defined.

The Procuring Entity's Representative will provide instructions clarifying queries about the Conditions of Contract.

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

3. Governing Language and Law

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

4. Communications

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

5. Possession of Site

- 5.1. On the date specified in the **SCC**, the Procuring Entity shall grant the Contractor possession of so much of the Site as may be required to enable it to proceed with the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- 5.2. If possession of a portion is not given by the date stated in the **SCC** Clause 5.1, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay shall be in accordance with **GCC** Clause 47.
- 5.3. The Contractor shall bear all costs and charges for special or temporary right-of-way required by it in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by it for purposes of the Works.
- 5.4. The Contractor shall allow the Procuring Entity's Representative and any person authorized by the Procuring Entity's Representative access to the Site and to any place where work in connection with this Contract is being carried out or is intended to be carried out.

6. The Contractor's Obligations

- 6.1. The Contractor shall carry out the Works properly and in accordance with this Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment, which may be required. All Materials and Plant on Site shall be deemed to be the property of the Procuring Entity.
- 6.2. The Contractor shall commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program of Work submitted by the Contractor, as updated with the approval of the Procuring Entity's Representative, and complete them by the Intended Completion Date.

- 6.3. The Contractor shall be responsible for the safety of all activities on the Site.
- 6.4. The Contractor shall carry out all instructions of the Procuring Entity's Representative that comply with the applicable laws where the Site is located.
- 6.5. The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the **SCC**, to carry out the supervision of the Works. The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.
- 6.6. If the Procuring Entity's Representative asks the Contractor to remove a member of the Contractor's staff or work force, for justifiable cause, the Contractor shall ensure that the person leaves the Site within seven (7) days and has no further connection with the Work in this Contract.
- 6.7. During Contract implementation, the Contractor and his subcontractors shall abide at all times by all labor laws, including child labor related enactments, and other relevant rules.
- 6.8. The Contractor shall submit to the Procuring Entity for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.
- 6.9. The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Procuring Entity between the dates given in the schedule of other contractors particularly when they shall require access to the Site. The Contractor shall also provide facilities and services for them during this period. The Procuring Entity may modify the schedule of other contractors, and shall notify the Contractor of any such modification thereto.
- 6.10. Should anything of historical or other interest or of significant value be unexpectedly discovered on the Site, it shall be the property of the Procuring Entity. The Contractor shall notify the Procuring Entity's Representative of such discoveries and carry out the Procuring Entity's Representative's instructions in dealing with them.

7. Performance Security

- 7.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the Contractor shall furnish the performance security in any the forms prescribed in **ITB** Clause 32.2.
- 7.2. The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the Contractor is in default in any of its obligations under the Contract.
- 7.3. The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.
- 7.4. The performance security may be released by the Procuring Entity and returned to the Contractor after the issuance of the Certificate of Final Acceptance subject to the following conditions:
 - (a) There are no pending claims against the Contractor or the surety company filed by the Procuring Entity;
 - (b) The Contractor has no pending claims for labor and materials filed against it; and
 - (c) Other terms specified in the **SCC**.

- 7.5. The Contractor shall post an additional performance security following the amount and form specified in **ITB** Clause 32.2 to cover any cumulative increase of more than ten percent (10%) over the original value of the contract as a result of amendments to order or change orders, extra work orders and supplemental agreements, as the case may be. The Contractor shall cause the extension of the validity of the performance security to cover approved contract time extensions.
- 7.6. In case of a reduction in the contract value or for partially completed Works under the contract which are usable and accepted by the Procuring Entity the use of which, in the judgment of the implementing agency or the Procuring Entity, will not affect the structural integrity of the entire project, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.
- 7.7. Unless otherwise indicated in the **SCC**, the Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to Act 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

8. Subcontracting

- 8.1. Unless otherwise indicated in the **SCC**, the Contractor cannot subcontract Works more than the percentage specified in **ITB** Clause 8.1.
- 8.2. Subcontracting of any portion of the Works does not relieve the Contractor of any liability or obligation under this Contract. The Contractor will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants or workmen.
- 8.3. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract, subject to compliance with the required qualifications and the approval of the Procuring Entity.

9. Liquidated Damages

- 9.1. The Contractor shall pay liquidated damages to the Procuring Entity for each day that the Completion Date is later than the Intended Completion Date. The applicable liquidated damages is at least one-tenth (1/10) of a percent of the cost of the unperformed portion for every day of delay. The total amount of liquidated damages shall not exceed ten percent (10%) of the amount of the contract. The Procuring Entity may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of this Contract, the Procuring Entity shall rescind this Contract, without prejudice to other courses of action and remedies open to it.
- 9.2. If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer of the Procuring Entity shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **GCC** Clause 40.3.

10. Site Investigation Reports

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

11. The Procuring Entity, Licenses and Permits

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

12. Contractor's Risk and Warranty Security

- 12.1. The Contractor shall assume full responsibility for the Works from the time project construction commenced up to final acceptance by the Procuring Entity and shall be held responsible for any damage or destruction of the Works except those occasioned by *force majeure*. The Contractor shall be fully responsible for the safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the Works, Equipment, installation, and the like to be affected by his construction work.
- 12.2. The defects liability period for infrastructure projects shall be one year from contract completion up to final acceptance by the Procuring Entity. During this period, the Contractor shall undertake the repair works, at his own expense, of any damage to the Works on account of the use of materials of inferior quality within ninety (90) days from the time the Head of the Procuring Entity has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.
- 12.3. Unless otherwise indicated in the **SCC**, in case the Contractor fails to comply with the preceding paragraph, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 12.4. After final acceptance of the Works by the Procuring Entity, the Contractor shall be held responsible for "Structural Defects", *i.e.*, major faults/flaws/deficiencies in one or more key structural elements of the project which may lead to structural failure of the completed elements or structure, or "Structural Failures", *i.e.*, where one or more key structural elements in an infrastructure facility fails or collapses, thereby rendering the facility or part thereof incapable of withstanding the design loads, and/or endangering the safety of the users or the general public:
 - (a) Contractor – Where Structural Defects/Failures arise due to faults attributable to improper construction, use of inferior quality/substandard materials, and any violation of the contract plans and specifications, the contractor shall be held liable;
 - (b) Consultants – Where Structural Defects/Failures arise due to faulty and/or inadequate design and specifications as well as construction supervision, then the consultant who prepared the design or undertook construction supervision for the project shall be held liable;
 - (c) Procuring Entity's Representatives/Project Manager/Construction Managers and Supervisors – The project owner's representative(s), project manager, construction manager, and supervisor(s) shall be held liable in cases where the Structural Defects/Failures are due to his/their willful intervention in altering the designs and other specifications; negligence or omission in not approving or acting on proposed changes to noted defects or deficiencies in the design and/or specifications; and the use of substandard construction materials in the project;

- (d) Third Parties - Third Parties shall be held liable in cases where Structural Defects/Failures are caused by work undertaken by them such as leaking pipes, diggings or excavations, underground cables and electrical wires, underground tunnel, mining shaft and the like, in which case the applicable warranty to such structure should be levied to third parties for their construction or restoration works.
- (e) Users - In cases where Structural Defects/Failures are due to abuse/misuse by the end user of the constructed facility and/or non-compliance by a user with the technical design limits and/or intended purpose of the same, then the user concerned shall be held liable.
- 12.5. The warranty against Structural Defects/Failures, except those occasioned on force majeure, shall cover the period specified in the **SCC** reckoned from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity.
- 12.6. The Contractor shall be required to put up a warranty security in the form of cash, bank guarantee, letter of credit, GSIS or surety bond callable on demand, in accordance with the following schedule:

Form of Warranty	Minimum Amount in Percentage (%) of Total Contract Price
(a) Cash or letter of credit issued by Universal or Commercial bank: provided, however, that the letter of credit shall be confirmed or authenticated by a Universal or Commercial bank, if issued by a foreign bank	Five Percent (5%)
(b) Bank guarantee confirmed by Universal or Commercial bank: provided, however, that the letter of credit shall be confirmed or authenticated by a Universal or Commercial bank, if issued by a foreign bank	Ten Percent (10%)
(c) Surety bond callable upon demand issued by GSIS or any surety or insurance company duly certified by the Insurance Commission	Thirty Percent (30%)

- 12.7. The warranty security shall be stated in Philippine Pesos and shall remain effective for one year from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity, and returned only after the lapse of said one year period.
- 12.8. In case of structural defects/failure occurring during the applicable warranty period provided in **GCC** Clause 12.5, the Procuring Entity shall undertake the necessary restoration or reconstruction works and shall be entitled to full reimbursement by the parties found to be liable for expenses incurred therein upon demand, without prejudice to the filing of appropriate administrative, civil, and/or criminal charges against the

responsible persons as well as the forfeiture of the warranty security posted in favor of the Procuring Entity.

13. Liability of the Contractor

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

14. Procuring Entity's Risk

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

- (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to:
 - (i) any type of use or occupation of the Site authorized by the Procuring Entity after the official acceptance of the works; or
 - (ii) negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed by or contracted to him except the Contractor.
- (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

15. Insurance

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

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

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

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

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

15.4. If the Contractor fails to obtain and keep in force the insurances referred to herein or any other insurance which he may be required to obtain under the terms of this Contract, the Procuring Entity may obtain and keep in force any such insurances and pay such

premiums as may be necessary for the purpose. From time to time, the Procuring Entity may deduct the amount it shall pay for said premiums including twenty five percent (25%) therein from any monies due, or which may become due, to the Contractor, without prejudice to the Procuring Entity exercising its right to impose other sanctions against the Contractor pursuant to the provisions of this Contract.

- 15.5. In the event the Contractor fails to observe the above safeguards, the Procuring Entity may, at the Contractor's expense, take whatever measure is deemed necessary for its protection and that of the Contractor's personnel and third parties, and/or order the interruption of dangerous Works. In addition, the Procuring Entity may refuse to make the payments under **GCC** Clause 40 until the Contractor complies with this Clause.
- 15.6. The Contractor shall immediately replace the insurance policy obtained as required in this Contract, without need of the Procuring Entity's demand, with a new policy issued by a new insurance company acceptable to the Procuring Entity for any of the following grounds:
 - (a) The issuer of the insurance policy to be replaced has:
 - (i) become bankrupt;
 - (ii) been placed under receivership or under a management committee;
 - (iii) been sued for suspension of payment; or
 - (iv) been suspended by the Insurance Commission and its license to engage in business or its authority to issue insurance policies cancelled; or
 - (v) Where reasonable grounds exist that the insurer may not be able, fully and promptly, to fulfill its obligation under the insurance policy.

16. Termination for Default of Contractor

- 16.1. The Procuring Entity shall terminate this Contract for default when any of the following conditions attend its implementation:
- 16.2. Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in accordance with Presidential Decree 1870, regardless of whether or not previous warnings and notices have been issued for the Contractor to improve his performance;
- 16.3. Due to its own fault and after this Contract time has expired, the Contractor incurs delay in the completion of the Work after this Contract has expired; or
- 16.4. The Contractor:
 - (a) abandons the contract Works, refuses or fails to comply with a valid instruction of the Procuring Entity or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;
 - (b) does not actually have on the project Site the minimum essential equipment listed on the Bid necessary to prosecute the Works in accordance with the approved Program of Work and equipment deployment schedule as required for the project;
 - (c) does not execute the Works in accordance with this Contract or persistently or flagrantly neglects to carry out its obligations under this Contract;
 - (d) neglects or refuses to remove materials or to perform a new Work that has been rejected as defective or unsuitable; or

- (e) sub-lets any part of this Contract without approval by the Procuring Entity.
- 16.5. All materials on the Site, Plant, Equipment, and Works shall be deemed to be the property of the Procuring Entity if this Contract is rescinded because of the Contractor's default.

17. Termination for Default of Procuring Entity

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

- (a) Failure of the Procuring Entity to deliver, within a reasonable time, supplies, materials, right-of-way, or other items it is obligated to furnish under the terms of this Contract; or
- (b) The prosecution of the Work is disrupted by the adverse peace and order situation, as certified by the Armed Forces of the Philippines Provincial Commander and approved by the Secretary of National Defense.

18. Termination for Other Causes

- 18.1. The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate this Contract for the convenience of the Procuring Entity if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and National Government policies.
- 18.2. The Procuring Entity or the Contractor may terminate this Contract if the other party causes a fundamental breach of this Contract.
- 18.3. Fundamental breaches of Contract shall include, but shall not be limited to, the following:
- (a) The Contractor stops work for twenty eight (28) days when no stoppage of work is shown on the current Program of Work and the stoppage has not been authorized by the Procuring Entity's Representative;
 - (b) The Procuring Entity's Representative instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within twenty eight (28) days;
 - (c) The Procuring Entity shall terminate this Contract if the Contractor is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Contractor. In the case of the Contractor's insolvency, any Contractor's Equipment which the Procuring Entity instructs in the notice is to be used until the completion of the Works;
 - (d) A payment certified by the Procuring Entity's Representative is not paid by the Procuring Entity to the Contractor within eighty four (84) days from the date of the Procuring Entity's Representative's certificate;
 - (e) The Procuring Entity's Representative gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Procuring Entity's Representative;

- (f) The Contractor does not maintain a Security, which is required;
 - (g) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the **GCC** Clause 9; and
 - (h) In case it is determined prima facie by the Procuring Entity that the Contractor has engaged, before or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to, the following:
 - (i) corrupt, fraudulent, collusive, coercive, and obstructive practices as defined in **ITB** Clause 3.1(a), unless otherwise specified in the SCC;
 - (ii) drawing up or using forged documents;
 - (iii) using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
 - (iv) any other act analogous to the foregoing.
- 18.4. The Funding Source or the Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with corrupt, fraudulent, or coercive practices.
- 18.5. When persons from either party to this Contract gives notice of a fundamental breach to the Procuring Entity's Representative in order to terminate the existing contract for a cause other than those listed under **GCC** Clause 18.3, the Procuring Entity's Representative shall decide whether the breach is fundamental or not.
- 18.6. If this Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

19. Procedures for Termination of Contracts

- 19.1. The following provisions shall govern the procedures for the termination of this Contract:
- (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Procuring Entity shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
 - (b) Upon recommendation by the Procuring Entity, the Head of the Procuring Entity shall terminate this Contract only by a written notice to the Contractor conveying the termination of this Contract. The notice shall state:
 - (i) that this Contract is being terminated for any of the ground(s) aforementioned, and a statement of the acts that constitute the ground(s) constituting the same;
 - (ii) the extent of termination, whether in whole or in part;
 - (iii) an instruction to the Contractor to show cause as to why this Contract should not be terminated; and
 - (iv) special instructions of the Procuring Entity, if any.

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

- (c) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Contractor shall submit to the Head of the Procuring Entity a verified position paper stating why the contract should not be terminated. If the Contractor fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the Head of the Procuring Entity shall issue an order terminating the contract;
 - (d) The Procuring Entity may, at anytime before receipt of the Bidder's verified position paper described in item (c) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Contractor's receipt of the notice;
 - (e) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the Head of the Procuring Entity shall decide whether or not to terminate this Contract. It shall serve a written notice to the Contractor of its decision and, unless otherwise provided in the said notice, this Contract is deemed terminated from receipt of the Contractor of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate; and
 - (f) The Head of the Procuring Entity may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Procuring Entity.
- 19.2. Pursuant to Section 69(f) of RA 9184 and without prejudice to the imposition of additional administrative sanctions as the internal rules of the agency may provide and/or further criminal prosecution as provided by applicable laws, the procuring entity shall impose on contractors after the termination of the contract the penalty of suspension for one (1) year for the first offense, suspension for two (2) years for the second offense from participating in the public bidding process, for violations committed during the contract implementation stage, which include but not limited to the following:
- (a) Failure of the contractor, due solely to his fault or negligence, to mobilize and start work or performance within the specified period in the Notice to Proceed ("NTP");
 - (b) Failure by the contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the contractor to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract. For the procurement of infrastructure projects or consultancy contracts, lawful instructions include but are not limited to the following:
 - (i) Employment of competent technical personnel, competent engineers and/or work supervisors;
 - (ii) Provision of warning signs and barricades in accordance with approved plans and specifications and contract provisions;
 - (iii) Stockpiling in proper places of all materials and removal from the project site of waste and excess materials, including broken pavement and excavated debris in accordance with approved plans and specifications and contract provisions;
 - (iv) Deployment of committed equipment, facilities, support staff and manpower; and

- (v) Renewal of the effectivity dates of the performance security after its expiration during the course of contract implementation.
- (c) Assignment and subcontracting of the contract or any part thereof or substitution of key personnel named in the proposal without prior written approval by the procuring entity.
- (d) Poor performance by the contractor or unsatisfactory quality and/or progress of work arising from his fault or negligence as reflected in the Constructor's Performance Evaluation System ("CPES") rating sheet. In the absence of the CPES rating sheet, the existing performance monitoring system of the procuring entity shall be applied. Any of the following acts by the Contractor shall be construed as poor performance:
 - (i) Negative slippage of 15% and above within the critical path of the project due entirely to the fault or negligence of the contractor; and
 - (ii) Quality of materials and workmanship not complying with the approved specifications arising from the contractor's fault or negligence.
- (e) Willful or deliberate abandonment or non-performance of the project or contract by the contractor resulting to substantial breach thereof without lawful and/or just cause.

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

20. Force Majeure, Release From Performance

- 20.1. For purposes of this Contract the terms "*force majeure*" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which the Contractor could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Contractor.
- 20.2. If this Contract is discontinued by an outbreak of war or by any other event entirely outside the control of either the Procuring Entity or the Contractor, the Procuring Entity's Representative shall certify that this Contract has been discontinued. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any Work carried out afterwards to which a commitment was made.
- 20.3. If the event continues for a period of eighty four (84) days, either party may then give notice of termination, which shall take effect twenty eight (28) days after the giving of the notice.
- 20.4. After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the materials and Plant reasonably delivered to the Site, adjusted by the following:
 - (a) any sum to which the Contractor is entitled under **GCC** Clause 28;
 - (b) the cost of his suspension and demobilization;
 - (c) any sum to which the Procuring Entity is entitled.
- 20.5. The net balance due shall be paid or repaid within a reasonable time period from the time of the notice of termination.

21. Resolution of Disputes

- 21.1. If any dispute or difference of any kind whatsoever shall arise between the parties in connection with the implementation of the contract covered by the Act and this IRR, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 21.2. If the Contractor believes that a decision taken by the PROCURING ENTITY's Representative was either outside the authority given to the PROCURING ENTITY's Representative by this Contract or that the decision was wrongly taken, the decision shall be referred to the Arbiter indicated in the **SCC** within fourteen (14) days of the notification of the PROCURING ENTITY's Representative's decision.
- 21.3. Any and all disputes arising from the implementation of this Contract covered by the R.A. 9184 and its IRR shall be submitted to arbitration in the Philippines according to the provisions of Republic Act No. 876, otherwise known as the "Arbitration Law" and Republic Act 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004": *Provided, however,* That, disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be referred thereto. The process of arbitration shall be incorporated as a provision in this Contract that will be executed pursuant to the provisions of the Act and its IRR: *Provided, further,* That, by mutual agreement, the parties may agree in writing to resort to other alternative modes of dispute resolution.

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

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

- (a) The Procuring Entity is obligated to notify the Contractor of such suspension within seven (7) days of having received the suspension notice.
- (b) If the Contractor has not received sums due it for work already done within forty five (45) days from the time the Contractor's claim for payment has been certified by the Procuring Entity's Representative, the Contractor may immediately issue a suspension of work notice in accordance with **GCC** Clause 45.2.

23. Procuring Entity's Representative's Decisions

- 23.1. Except where otherwise specifically stated, the Procuring Entity's Representative will decide contractual matters between the Procuring Entity and the Contractor in the role representing the Procuring Entity.
- 23.2. The Procuring Entity's Representative may delegate any of his duties and responsibilities to other people, except to the Arbiter, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

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

- 24.1. All Drawings prepared by the Contractor for the execution of the Temporary Works, are subject to prior approval by the Procuring Entity's Representative before its use.
- 24.2. The Contractor shall be responsible for design of Temporary Works.
- 24.3. The Procuring Entity's Representative's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

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

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

- 25.1. When the Procuring Entity wants the Contractor to finish before the Intended Completion Date, the Procuring Entity's Representative will obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Procuring Entity accepts these proposals, the Intended Completion Date will be adjusted accordingly and confirmed by both the Procuring Entity and the Contractor.
- 25.2. If the Contractor's Financial Proposals for an acceleration are accepted by the Procuring Entity, they are incorporated in the Contract Price and treated as a Variation.

26. Extension of the Intended Completion Date

- 26.1. The Procuring Entity's Representative shall extend the Intended Completion Date if a Variation is issued which makes it impossible for the Intended Completion Date to be achieved by the Contractor without taking steps to accelerate the remaining work, which would cause the Contractor to incur additional costs. No payment shall be made for any event which may warrant the extension of the Intended Completion Date.
- 26.2. The Procuring Entity's Representative shall decide whether and by how much to extend the Intended Completion Date within twenty one (21) days of the Contractor asking the Procuring Entity's Representative for a decision thereto after fully submitting all supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

27. Right to Vary

- 27.1. The Procuring Entity's Representative with the prior approval of the Procuring Entity may instruct Variations, up to a maximum cumulative amount of ten percent (10%) of the original contract cost.
- 27.2. Variations shall be valued as follows:
- (a) At a lump sum price agreed between the parties;
 - (b) where appropriate, at rates in this Contract;
 - (c) in the absence of appropriate rates, the rates in this Contract shall be used as the basis for valuation; or failing which
 - (d) at appropriate new rates, equal to or lower than current industry rates and to be agreed upon by both parties and approved by the Head of the Procuring Entity.

28. Contractor's Right to Claim

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

29. Dayworks

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

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

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

30. Early Warning

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

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

31. Program of Work

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

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

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

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

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

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

32. Management Conferences

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

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

33. Bill of Quantities

- 33.1. The Bill of Quantities shall contain items of work for the construction, installation, testing, and commissioning of work to be done by the Contractor.
- 33.2. The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.
- 33.3. If the final quantity of any work done differs from the quantity in the Bill of Quantities for the particular item and is not more than twenty five percent (25%) of the original quantity, provided the aggregate changes for all items do not exceed ten percent (10%) of the Contract price, the Procuring Entity's Representative shall make the necessary adjustments to allow for the changes subject to applicable laws, rules, and regulations.
- 33.4. If requested by the Procuring Entity's Representative, the Contractor shall provide the Procuring Entity's Representative with a detailed cost breakdown of any rate in the Bill of Quantities.

34. Instructions, Inspections and Audits

- 34.1. The Procuring Entity's personnel shall at all reasonable times during construction of the Work be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of the construction.
- 34.2. If the Procuring Entity's Representative instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a Compensation Event.
- 34.3. The Contractor shall permit the Funding Source named in the **SCC** to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

35. Identifying Defects

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

36. Cost of Repairs

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

37. Correction of Defects

- 37.1. The Procuring Entity's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which is One (1) year from project completion up to final acceptance by the Procuring Entity's.
- 37.2. Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified in the Procuring Entity's Representative's notice.
- 37.3. The Contractor shall correct the defects which he notices himself before the end of the Defects Liability Period.
- 37.4. The Procuring Entity shall certify that all defects have been corrected. If the Procuring Entity considers that correction of a defect is not essential, he can request the Contractor to submit a quotation for the corresponding reduction in the Contract Price. If the Procuring Entity accepts the quotation, the corresponding change in the SCC is a Variation.

38. Uncorrected Defects

- 38.1. The Procuring Entity shall give the Contractor at least fourteen (14) days notice of his intention to use a third party to correct a Defect. If the Contractor does not correct the Defect himself within the period, the Procuring Entity may have the Defect corrected by the third party. The cost of the correction will be deducted from the Contract Price.
- 38.2. The use of a third party to correct defects that are uncorrected by the Contractor will in no way relieve the Contractor of its liabilities and warranties under the Contract.

39. Advance Payment

- 39.1. The Procuring Entity shall, upon a written request of the contractor which shall be submitted as a contract document, make an advance payment to the contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum or, at the most two, installments according to a schedule specified in the **SCC**.
- 39.2. The advance payment shall be made only upon the submission to and acceptance by the Procuring Entity of an irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee or a surety bond callable upon demand, issued by a surety or insurance company duly licensed by the Insurance Commission and confirmed by the Procuring Entity.
- 39.3. The advance payment shall be repaid by the Contractor by an amount equal to the percentage of the total contract price used for the advance payment.
- 39.4. The contractor may reduce his standby letter of credit or guarantee instrument by the amounts refunded by the Monthly Certificates in the advance payment.
- 39.5. The Procuring Entity will provide an Advance Payment on the Contract Price as stipulated in the Conditions of Contract, subject to the maximum amount stated in **SCC** Clause 39.1.

40. Progress Payments

- 40.1. The Contractor may submit a request for payment for Work accomplished. Such request for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.
- 40.2. The Procuring Entity shall deduct the following from the certified gross amounts to be paid to the contractor as progress payment:

- (a) Cumulative value of the work previously certified and paid for.
 - (b) Portion of the advance payment to be recouped for the month.
 - (c) Retention money in accordance with the condition of contract.
 - (d) Amount to cover third party liabilities.
 - (e) Amount to cover uncorrected discovered defects in the works.
- 40.3. Payments shall be adjusted by deducting therefrom the amounts for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Procuring Entity's Representative within twenty eight (28) days from the date each certificate was issued. No payment of interest for delayed payments and adjustments shall be made by the Procuring Entity.
- 40.4. The first progress payment may be paid by the Procuring Entity to the Contractor provided that at least twenty percent (20%) of the work has been accomplished as certified by the Procuring Entity's Representative.
- 40.5. Items of the Works for which a price of "0" (zero) has been entered will not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

41. Payment Certificates

- 41.1. The Contractor shall submit to the Procuring Entity's Representative monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
- 41.2. The Procuring Entity's Representative shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- 41.3. The value of Work executed shall:
- (a) be determined by the Procuring Entity's Representative;
 - (b) comprise the value of the quantities of the items in the Bill of Quantities completed; and
 - (c) include the valuations of approved variations.
- 41.4. The Procuring Entity's Representative may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

42. Retention

- 42.1. The Procuring Entity shall retain from each payment due to the Contractor an amount equal to a percentage thereof using the rate as specified in **ITB** Sub-Clause 42.2.
- 42.2. Progress payments are subject to retention of ten percent (10%), referred to as the "retention money." Such retention shall be based on the total amount due to the Contractor prior to any deduction and shall be retained from every progress payment until fifty percent (50%) of the value of Works, as determined by the Procuring Entity, are completed. If, after fifty percent (50%) completion, the Work is satisfactorily done and on schedule, no additional retention shall be made; otherwise, the ten percent (10%) retention shall again be imposed using the rate specified therefor.
- 42.3. The total "retention money" shall be due for release upon final acceptance of the Works. The Contractor may, however, request the substitution of the retention money for each

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

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

43. Variation Orders

- 43.1. Variation Orders may be issued by the Procuring Entity to cover any increase/decrease in quantities, including the introduction of new work items that are not included in the original contract or reclassification of work items that are either due to change of plans, design or alignment to suit actual field conditions resulting in disparity between the preconstruction plans used for purposes of bidding and the “as staked plans” or construction drawings prepared after a joint survey by the Contractor and the Procuring Entity after award of the contract, provided that the cumulative amount of the Variation Order does not exceed ten percent (10%) of the original project cost. The addition/deletion of Works should be within the general scope of the project as bid and awarded. The scope of works shall not be reduced so as to accommodate a positive Variation Order. A Variation Order may either be in the form of a Change Order or Extra Work Order.
- 43.2. A Change Order may be issued by the Procuring Entity to cover any increase/decrease in quantities of original Work items in the contract.
- 43.3. An Extra Work Order may be issued by the Procuring Entity to cover the introduction of new work necessary for the completion, improvement or protection of the project which were not included as items of Work in the original contract, such as, where there are subsurface or latent physical conditions at the site differing materially from those indicated in the contract, or where there are duly unknown physical conditions at the site of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the Work or character provided for in the contract.
- 43.4. Any cumulative Variation Order beyond ten percent (10%) shall be subject of another contract to be bid out if the works are separable from the original contract. In exceptional cases where it is urgently necessary to complete the original scope of work, the Head of the Procuring Entity may authorize a positive Variation Order go beyond ten percent (10%) but not more than twenty percent (20%) of the original contract price, subject to the guidelines to be determined by the GPPB: *Provided, however*, That appropriate sanctions shall be imposed on the designer, consultant or official responsible for the original detailed engineering design which failed to consider the Variation Order beyond ten percent (10%).
- 43.5. In claiming for any Variation Order, the Contractor shall, within seven (7) calendar days after such work has been commenced or after the circumstances leading to such condition(s) leading to the extra cost, and within twenty-eight (28) calendar days deliver a written communication giving full and detailed particulars of any extra cost in order that it may be investigated at that time. Failure to provide either of such notices in the

time stipulated shall constitute a waiver by the contractor for any claim. The preparation and submission of Variation Orders are as follows:

- (a) If the Procuring Entity's representative/Project Engineer believes that a Change Order or Extra Work Order should be issued, he shall prepare the proposed Order accompanied with the notices submitted by the Contractor, the plans therefore, his computations as to the quantities of the additional works involved per item indicating the specific stations where such works are needed, the date of his inspections and investigations thereon, and the log book thereof, and a detailed estimate of the unit cost of such items of work, together with his justifications for the need of such Change Order or Extra Work Order, and shall submit the same to the Head of the Procuring Entity for approval.
- (b) The Head of the Procuring Entity or his duly authorized representative, upon receipt of the proposed Change Order or Extra Work Order shall immediately instruct the technical staff of the Procuring Entity's to conduct an on-the-spot investigation to verify the need for the Work to be prosecuted. A report of such verification shall be submitted directly to the Head of the Procuring Entity or his duly authorized representative.
- (c) The, Head of the Procuring Entity or his duly authorized representative, after being satisfied that such Change Order or Extra Work Order is justified and necessary, shall review the estimated quantities and prices and forward the proposal with the supporting documentation to the Head of Procuring Entity for consideration.
- (d) If, after review of the plans, quantities and estimated unit cost of the items of work involved, the proper office of the procuring entity empowered to review and evaluate Change Orders or Extra Work Orders recommends approval thereof, Head of the Procuring Entity or his duly authorized representative, believing the Change Order or Extra Work Order to be in order, shall approve the same.
- (e) The timeframe for the processing of Variation Orders from the preparation up to the approval by the Head of the Procuring Entity concerned shall not exceed thirty (30) calendar days.

44. Contract Completion

Once the project reaches an accomplishment of ninety five (95%) of the total contract amount, the Procuring Entity may create an inspectorate team to make preliminary inspection and submit a punch-list to the Contractor in preparation for the final turnover of the project. Said punch-list will contain, among others, the remaining Works, Work deficiencies for necessary corrections, and the specific duration/time to fully complete the project considering the approved remaining contract time. This, however, shall not preclude the claim of the Procuring Entity for liquidated damages.

45. Suspension of Work

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

- 45.2. The Contractor or its duly authorized representative shall have the right to suspend work operation on any or all projects/activities along the critical path of activities after fifteen (15) calendar days from date of receipt of written notice from the Contractor to the district engineer/regional director/consultant or equivalent official, as the case may be, due to the following:
- (a) There exist right-of-way problems which prohibit the Contractor from performing work in accordance with the approved construction schedule.
 - (b) Requisite construction plans which must be owner-furnished are not issued to the contractor precluding any work called for by such plans.
 - (c) Peace and order conditions make it extremely dangerous, if not possible, to work. However, this condition must be certified in writing by the Philippine National Police (PNP) station which has responsibility over the affected area and confirmed by the Department of Interior and Local Government (DILG) Regional Director.
 - (d) There is failure on the part of the Procuring Entity to deliver government-furnished materials and equipment as stipulated in the contract.
 - (e) Delay in the payment of Contractor's claim for progress billing beyond forty-five (45) calendar days from the time the Contractor's claim has been certified to by the procuring entity's authorized representative that the documents are complete unless there are justifiable reasons thereof which shall be communicated in writing to the Contractor.
- 45.3. In case of total suspension, or suspension of activities along the critical path, which is not due to any fault of the Contractor, the elapsed time between the effective order of suspending operation and the order to resume work shall be allowed the Contractor by adjusting the contract time accordingly.

46. Payment on Termination

- 46.1. If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Procuring Entity's Representative shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the SCC. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.
- 46.2. If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Procuring Entity's Representative shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
- 46.3. The net balance due shall be paid or repaid within twenty eight (28) days from the notice of termination.
- 46.4. If the Contractor has terminated the Contract under GCC Clauses 17 or 18, the Procuring Entity shall promptly return the Performance Security to the Contractor.

47. Extension of Contract Time

- 47.1. Should the amount of additional work of any kind or other special circumstances of any kind whatsoever occur such as to fairly entitle the contractor to an extension of contract time, the Procuring Entity shall determine the amount of such extension; provided that the Procuring Entity is not bound to take into account any claim for an extension of time unless the Contractor has, prior to the expiration of the contract time and within thirty (30) calendar days after such work has been commenced or after the circumstances leading to such claim have arisen, delivered to the Procuring Entity notices in order that it could have investigated them at that time. Failure to provide such notice shall constitute a waiver by the Contractor of any claim. Upon receipt of full and detailed particulars, the Procuring Entity shall examine the facts and extent of the delay and shall extend the contract time completing the contract work when, in the Procuring Entity's opinion, the findings of facts justify an extension.
- 47.2. No extension of contract time shall be granted the Contractor due to (a) ordinary unfavorable weather conditions and (b) inexcusable failure or negligence of Contractor to provide the required equipment, supplies or materials.
- 47.3. Extension of contract time may be granted only when the affected activities fall within the critical path of the PERT/CPM network.
- 47.4. No extension of contract time shall be granted when the reason given to support the request for extension was already considered in the determination of the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection.
- 47.5. Extension of contract time shall be granted for rainy/unworkable days considered unfavorable for the prosecution of the works at the site, based on the actual conditions obtained at the site, in excess of the number of rainy/unworkable days pre-determined by the Procuring Entity in relation to the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection, and/or for equivalent period of delay due to major calamities such as exceptionally destructive typhoons, floods and earthquakes, and epidemics, and for causes such as non-delivery on time of materials, working drawings, or written information to be furnished by the Procuring Entity, non-acquisition of permit to enter private properties within the right-of-way resulting in complete paralyzation of construction activities, and other meritorious causes as determined by the Procuring Entity's Representative and approved by the Head of the Procuring Entity. Shortage of construction materials, general labor strikes, and peace and order problems that disrupt construction operations through no fault of the Contractor may be considered as additional grounds for extension of contract time provided they are publicly felt and certified by appropriate government agencies such as DTI, DOLE, DILG, and DND, among others. The written consent of bondsmen must be attached to any request of the Contractor for extension of contract time and submitted to the Procuring Entity for consideration and the validity of the Performance Security shall be correspondingly extended.

48. Price Adjustment

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

49. Completion

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

50. Taking Over

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

51. Operating and Maintenance Manuals

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

51.2. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the **SCC**, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative shall withhold the amount stated in the **SCC** from payments due to the Contractor.

SECTION V

SPECIAL CONDITIONS OF THE CONTRACT

GCC Clause	
1.1(g)	The Procuring Entity is <i>Batangas State University</i>
1.1(i)	The Supplier is _____.
1.1(j)	The Funding Source is: The Government of the Philippines (GOP) through the <i>Approved Supplemental Budget</i> in the amount of Two Million Seven Hundred Ninety Two Thousand Six Hundred Four Pesos Only (Php 2,792,604.00) .
1.1(k)	The Project Site is <i>Batangas State University</i> .
5.1	The Procuring Entity's address for Notices is: <i>Dr. Tirso A. Ronquillo</i> <i>University President</i> <i>Batangas State University</i> <i>2nd Floor Administration Building, GPB Main Campus I</i> <i>Batangas City</i> The Supplier's address for Notices is: _____
6.2	For purposes of this Clause the Procuring Entity's Representative at the Project Site is the DR. EXPEDITO ACORDA , Executive Director, BatStateU Malvar Campus.
9	For the given scope of work in this Contract as awarded, all bid prices are considered fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances and upon prior approval of the GPPB in accordance with Section 61 of R.A. 9184 and its IRR-A.
10.1	No further instructions.
10.4	No further instructions.
13.1	No further instructions.
13.4	No further instructions.
13.4(c)	No further instructions.
16.1	The inspections that will be conducted is: a) Checking based on the required specifications.
17.3	Not applicable

17.4	Not applicable
19.1	<p>The applicable rate is one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay.</p> <p>The maximum deduction shall be ten percent (10%) of the amount of contract. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the procuring entity shall rescind the contract, without prejudice to other courses of action and remedies open to it.</p>
20.4	In the case of a dispute between the Procuring Entity and the Supplier, the dispute shall be resolved in accordance with Republic Act 9285 ("R.A. 9285"), otherwise known as the "Alternative Dispute Resolution Act of 2004."
21.1	No additional provision.

SECTION VI

SCHEDULE OF REQUIREMENTS

Item No.	Section VI-Schedule of Requirements	% of Total	Unit	Quantity	Delivery days/weeks
I	MAIN DISCONNECT PANEL BOARD(ACB)	0.0291	L.S.	1.00	60 days
II	CUSTOM BUILT MAIN DISTRIBUTION PANEL BOARD(MDPP)	0.0618	L.S.	1.00	60 days
III	CUSTOM BUILT MAIN TRANSFER SWITCH(MTS-1 & MTS-2)	0.1025	L.S.	1.00	60 days
IV	CABLES & WIRES	0.7757	L.S.	1.00	60 days
V	µPVC CONDUITS & FITTINGS	0.0231	L.S.	1.00	60 days
VI	AIRCONDITIONING	0.0050	L.S.	1.00	60 days
VII	SMALL ITEMS	0.0027	L.S.	1.00	60 days

GENERAL

The work under this Section shall be subject to the requirements of the General Conditions, which shall be included as part of this Specifications and which shall apply to all work to be performed under the Electrical Section. The contract documents, instructions, drawings and specifications shall be considered as one. Whatever is called for by any of the documents shall be binding as if called for by all.

1. DESCRIPTION

The work to be done under this Section of the Specifications consists of the fabrication, furnishing, delivery and installation, complete in all detail of the Electrical Work at the subject premises and all work materials incidental to the proper completion of the projects, except those portion of the work which are expressly stated to be done by others. All work shall be in accordance with the governing Codes and Regulations and with the Specifications, except where some shall conflict with codes, etc., which the later shall then govern. The requirements in regard to materials and workmanship specify the required standard for the furnishing of all labor, materials and appliances necessary for the complete installation of the work specified herein and indicated on the drawings. These specifications are intended to provide a broad outline of the required equipment, but are not intended to include all details of the design and construction.

2. WORK INCLUDED

Under this Section and together with the specifications, provide all materials and equipment and perform all the work necessary for the complete execution of the electrical systems shown on the electrical drawings with reference to the general construction drawings as herein specified, or both except as otherwise excluding the generality of the foregoing, shall include but not limited to the following principal items of work:

- a. Supply and installation of service entrance feeder/cables to power powerhouse. Terminate at incoming terminal lugs of Main Air Circuit Disconnect panel board.

- b. Remove from existing location and re-installation of one (1) unit of 150kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-1.
- c. Remove from existing location and re-installation of one (1) unit of 38kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-2.
- d. Conduiting and wiring works for feeder supplies including grounding system.
- e. Supply, installation and wiring of complete electrical equipment/panel boards including that of powerhouse.
- f. Painting of all exposed electrical conduits, enclosures and equipment.
- g. Termination of all electrical system to the panel boards.
- h. Conduct resistance testing for the grounding system.
- i. Conduct megger testing for all cable/wires of main entrance and feeder line.
- j. Complete testing and commissioning of all electrical lighting, power.
- k. Application, payment of fees and securing Electrical Permit and Certificate of Electrical Final Inspection / Completion from local agency concerned (Municipal Engineer's Office).
- l. Application and securing the approval for the electrical power supply service connections including the preparation of the necessary plans, forms and related documents, payments of fees and charges and coordination with the involved parties and other authorities or persons involved in the procedures.
- m. If anything has been omitted for any items of work or materials usually furnished, which are necessary for the completion of the entire work as outlined herein before, then such items must be and hereby included in this section of work.

3. CODES, INSPECTIONS, PERMITS & FEES

- a. The work under this Contract is to install according to the requirements of the latest Philippine Electrical Code, the rules and regulations of Batangas City and the requirements of the Owner. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the national and local ordinances or laws governing the installation of the electrical work and all such laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.
- b. All permits and electrical fees required for this work shall be obtained by and at the expense of the Contractor. The Contractor shall furnish the Architect, Engineers and the Owner the final certificate of inspection and approval from the proper government authorities after the completion of the work. The contractor shall prepare all "As-Built" electrical plans and all paperwork required by the approving authorities.

4. RECORD DRAWINGS

The Contractor shall, during the progress of the work, keep a careful record of all changes where the actual installation differs from that shown on the construction drawings. The Engineer will furnish at cost a complete set of sepia prints on which the Contractor shall, in a neat and accurate manner will

make a complete record of all changes and revisions to the original design, as installed in the completed work. These drawings shall be submitted to the Engineer for approval.

After the approval they shall become the property of the Engineer and final payment will be withheld until receipt of the approved record drawings.

5. SHOP DRAWING & SAMPLES

- a. Prepare and submit for approval to the Engineer shop drawings and cuts of all equipment, appliances and fixtures to be furnished. After final approval by the Engineer, a sufficient number of copies as directed shall be furnished for distribution. Fixture and device cuts and/or catalogues shall be clearly.
- b. Marked to indicate the items furnished. Do not submit individual sheets, cuts, catalogues or drawings, for instance, wiring device cuts should be for all types, of devices to be furnished, rather than for a few types.
- c. Submit to the Engineer for the approval samples of conduits, wires, wiring devices, finished plates and or/any other items as may be required by the Engineers.
- d. Upon construction is finished as-built plan shall be submitted to the owner.

6. COORDINATION

The Contractor shall cooperate in every way and work with all other trades/disciplines to whose apparatus he shall connect is part of his work and also provide in his work connections and facilities for the connection of their work. The Contractor is hereby called upon to prepare such drawings of details of his equipment, locations of sleeves, inserts and supports as may be required for the assistance of the General Contractor and the sub-contractors for other mechanical trades. Upon demand, he shall furnish these drawings in adequate numbers for the information of all parties concerned and shall coordinate the preparation of these drawings by consultation with other trades involved before submitting them. The approval of such drawings will not relieve the Contractor in any way from the responsibility of not properly locating or coordinating his work with the work of others.

7. MINOR MODIFICATIONS

The plans as drawn are based upon the architectural plans and the details and shown condition as accurately as it is possible to indicate them in scale. The plans are diagrammatical and do not necessarily shows all fittings etc., necessary to fit to the building conditions. The locations of outlets, apparatus and appliances shown on the plans are approximate. The Contractor shall be responsible for the proper location in order to make them fit with the architectural details and instructions from Engineer's representative at the site.

8. GUARANTEES

This Contractor shall guarantee that the entire electrical systems are free from all defective workmanship and materials and will remain so far a period of two (1) year from the date of acceptance of the work.

The Contractor shall indemnify and save harmless the Owner, the Architect and the Engineer from and against all liability for damages arising from injuries or disabilities to persons or damages to property occasioned by any or omission of the Contractor or any of his sub-contractors including any

and all legal expenses or otherwise, which may be incurred by the Owner, the Architect of the Engineer in the defense of any claims, actions, or suit.

9. APPROVALS / SUBSTITUTIONS

Wherever hereinafter the work 'for approval', or 'approved' (make, type, size, arrangement, etc. are used, especially in regard to manufactured specialties or wherever it is desired to substitute a different make or type of apparatus, shall be submitted to the Engineer and their approval must be secured before the Apparatus is ordered or installed.

10. SUBCONTRACTS

The Contractor shall be held fully responsible for the work of any sub-contractors or manufacturer performing work or supplying materials, as it is intended that the entire electrical work, when finally delivered to the Owner, shall be ready in every respect for satisfactory and efficient operation.

11. WORKMANSHIP

- a. The work throughout shall be executed in the best and through manner under the direction of and to the satisfaction of the Architect and the Engineer, who will jointly interpret the meaning of the drawings and specifications and shall have the power to reject any work and materials, which in their judgment are not in full accordance therewith.
- b. The Contractor shall have in his life, for ready access and reference, a set of drawings indicating all work as normally installed, incorporating in same all changes and additions. Upon the termination of the Contract, he shall prepare a set of tracings indicating thereon the electrical work as actually and finally installed. These tracings shall be turned over to the Engineer.

12. STANDARD OF MATERIALS

- a. All materials shall be new and shall conform to any of the standards of such as **UL, ASA, IEEE, NEMA, IPCEA and ASTM** in every case where such a standard has been established for the particular type of materials in question.
- b. All materials on all systems shall comply with the following specifications, unless noted specifically and all materials when not specified shall be the best of their respective kind.
- c. Samples of any materials shall be submitted for approval to the designing Electrical Engineer.

13. INSTALLATION REQUIREMENTS

- a. **Approval of equipment and materials:** All electrical materials shall be new and must meet the requirements of the specifications and shall bear the inspection label wherever such standard has been established. As soon as practicable and within thirty days after the official award of Contract and before any materials or equipment is ordered, the Contractor shall submit to the Engineer for approval, one complete list of materials, apparatus and equipment, in triplicate, giving the manufacturer's name, address, descriptive data, trade name of items, rated capacities, certified analysis catalogue number, etc., and when called upon to do so, the complete specifications and cut of drawings of such item, of whole or portion of list, as required by the Engineer, which he proposes to use or install.

- b. **Ground Test:** The entire installation shall be free from improper ground and from short circuits. This shall be tested and recorded in the presence Owner's representative, Project Manager and/or the Engineer. Each panel shall tested with main connected to the feeder. Each individual power feeder shall be tested with the power equipment connected for proper and intended operation. In no case shall the insulation resistance be less than that allowed by the regulations for electrical equipment and buildings. Failures shall be corrected in a manner satisfactory to the Engineers.
- c. **Performance Test:** It shall be the responsibility of the Electrical Contractor to test all systems of the entire electrical installation for proper operational conditions. This condition shall apply to the power, lighting and auxiliary installations. Where sequence operation is required, the electrical contractor shall test for proper sequence and he shall leave the entire electrical installation in satisfactory working condition.
- d. **Cutting and Fittings:** The Contractor shall do all cutting and fittings required for the installation of the work to make and join the several parts and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer.
- e. **Protection:** The Contractor shall effectually protect his own work from damage during and as may be necessary after installation and he shall likewise protect adjoining work of other trades from damage resulting from the installation of electrical work.

14. CONTRACT DRAWINGS

The location of various items indicated on the drawings are presumed to be approximately correct, but it is to be understood however, that the small scale drawings are necessarily diagrammatic and that such locations as shown, are subject to slight revision as the work is installed, which may be necessary to accommodate local construction conditions. No major change shall be made, however, without the approval in writing to the Engineers. The contractor shall examine and study the architectural scale drawings, large scale and full size details, the approved shop drawings of other trades and he shall frequently consult with the General Contractor to ascertain any changes that may have been made and he shall be guided accordingly before establishing the precise locations of conduit runs, panels, pull and junction boxes, and outlets for all electrical system.

15. WIRES & CABLES

- a. All wires shall be copper, soft-drawn and annealed, shall be of 99% conductivity, shall be smooth and true and of a cylindrical form and shall be within 1% of the actual size called for.
- b. All wires and cables shall comply with the requirements of the **Underwriter's Laboratories**, the **A.S.T.M.** and the **I.P.C.E.A.** as they apply in the particular.
- c. Wires and cables for lightning, power and auxiliary systems shall be nylon jacketed, plastic insulated for 600 volts working pressure, type **THNN/THWN** unless otherwise noted.
- d. For lighting system, no Wire smaller than **2.0 mm². (AWG No. 14 stranded)** shall be used and must be color-coded.
- e. For power system, no Wire smaller than **3.5 mm². (AWG No. 12 stranded)** shall be used and must be color-coded.
- f. All Wires and cable shall be color-coded and as manufactured by **Phelps Dodge** or its equivalent in quality. Color-coding or wires are as follows:

Line A - Red	Ground - White
Line B - Yellow	Control wire #01 - Yellow
Line C - Black	Control wire #02 - Blue

16. CONDUITS

- a. Metallic conduits for interior and exterior systems shall be a standard weight, mild steel, hot-dipped galvanized with an interior. PVC non-metallic conduits. Embedded in concrete slabs, concrete walls and partitions shall be high-impact type by **Emerald** or its approved equivalent.
- b. No conduits shall be used in any system smaller than 15mm dia. electric trade size, nor shall have more than four 90-degree bends in any one run and when necessary, pull boxes shall be provided ' as directed. Location and sizes of pull boxes shall be cleared to the Engineer prior to fabrication and installation.
- c. No wires shall be pulled into any conduit unless the conduit system is complete in all details. In the case of concealed work, no wires shall be pulled until all rough plastering or masonry has been completed and in the case or exposed work, until the conduit has been completed in every detail.
- d. The ends of all conduits shall be tightly plugged to exclude plaster, dust and moisture while the building is in the process of construction.
- e. All pipes and fittings on exposed work shall be secured by means of **Kindorff channels and clamps**. Conduit lay outing, in all cases shall run perfectly straight and rule, satisfactory to the architect and to the engineer.

17. OUTLETS, BOXES & FITTINGS

- a. All outlets of whatever kind, for all systems, shall be provided with suitable fittings, which shall be either a box or other devices especially designed to receive the type of fittings to be mounted thereon.
- b. The Contractor shall consult with the Architect and the Engineer as to the nature of the various fittings to be used before installing the outlet fittings and shall conform strictly in the use of such fittings, to the nature of the appliance to be mounted on them, so that the work, when finished will be a completed design.
- c. In the case of fixtures, the outlet fittings shall be provided with suitable fixture supports of a size and kind required by the fixture to be hung. Fixture studs in general shall be 9.375mm dia.

18. JUNCTION & PULL BOXES

- a. Junction and pull boxes, per code gage steel, shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finished places shall be located and installed with the permission of and to the satisfaction of the Architect and Engineer. Sizes shall be subject to the approval or the engineer.
- b. Junction and pull boxes must be painted for environmental protection.

19. WALL SWITCHES, OUTLETS

- a. Wall switches shall be rated at 15 amperes, 300volts, one-way, two-pole, three-way or four-way as required. Certain combinations shall be furnished with pilot lights as required and where indicated on the drawings. Switches shall be of the quick connect terminal operated. The type of switch shall be tumbler operation and the color plating and appearance of walls plates shall selected by the Architect and appropriate samples shall be submitted prior to the purchase of wall switches and wall plates. Switches shall be manufactured by **National, Toshiba or Anam** it's approved equivalent.
- b. Receptacle outlets shall be for flush mounting, duplex rate at 1 0 ampere, 250 volts, grounding type 3-wire. Type and color of receptacle outlet plates shall be selected by the Architect, and appropriate samples of outlets and plates shall be submitted prior to purchase of devices. Receptacles shall be as manufactured by **National, Toshiba or Anam** or it's approved.

20. PLATES

All switches and receptacle plates shall be as approved by the Architect and Engineers, prior to procurement.

21. PANELS & CABINETS

- a. Standard panels and cabinets as far as possible shall be used and assembled at jobsite. All panels shall be of dead front construction furnished with trims for flush or surface mounting, as required. Cabinets shall be of code gauge steel with gutters at least 150mm and wider, if necessary. The trim for all panels shall be finished in light gray enamel (ANSI #61) over a rust inhibitor.
- b. Panels and cabinets shall be fabricated by a reputable fabricator. Fabricator's shop drawings in triplicate copies shall be submitted for approval before fabricating the panels. Only one brand of circuit breaker and fabricator shall be used for the entire requirements of the project. Combinations of brand will be rejected.
- c. Lighting panels shall be required with two-pole circuit breaker in the branch circuits and in the main unless noted otherwise on plans. As indicated on plans, the panels shall be assembled in two or more sections where over one pole circuits. Ground bus terminals shall be standard features to the panel.

22. INDIVIDUAL BREAKERS & SWITCHES

- a. Provide individual circuit breakers and disconnect switches when indicated on the plans. Voltage rating shall be suitable in each case of service application.
- b. Enclosure for indoor application shall be NEMA-1, and for outdoor application shall be stainless steel, corrosion-proof NEMA-4X unless otherwise indicated in the plans.
- c. All protective devices shall meet NEMA and Underwriters Laboratories, Inc., specifications.
- d. Circuit breakers shall consists of a quick-make, quick-break type entirely tip free operating mechanism contacts with arc interrupter and thermal magnetic trip used for each pole and enclosed in a molded phenol case. The thermal magnetic trip unit shall provide time delay overload protection and instantaneous short circuit protection and shall operate internal common trip bar which will open all poles in case of overload or short circuit in any one-pole. Circuit breaker shall be trip indicating with the tripped position of breaker midway between 'ON' and 'OFF' positions.

- e. Only one single brand of circuit breaker shall be used on the entire project requirement. The acceptable brands are **G.E, Square-D, and Fuji Electric** or its approved equivalent. Submit brochures for approval.
- f. Minimum interrupting capacities of each circuit breaker are indicated on the load schedule. Application of circuit breakers shall be approved for the intended load per panel board schedule.
- g. Safety and disconnect switches shall be non-fusible and of sizes indicated on plans and shall be normal duty type, except as noted otherwise. Enclosures shall be NEMA-1 for indoor use and stainless steel, corrosion-proof NEMA-4X for outdoor use.

23. LOCATION OF WIRING & OUTLETS

- a. The Contractor shall coordinate his work with all trades involved so that exact locations may be obtained for all outlets, apparatus, appliances and equipment. The circuit numbers indicated as numbers 1, 2, 3 may not correspond to actual panel circuit connection numbers but must be balanced for better load distribution.
- b. The location of outlets shown on diagrammatic wiring plans shall be considered as approximate and it shall be incumbent upon the Contractor, before installation of outlets boxes, to study all pertinent drawings and obtain precise information from the architectural schedules, scale drawings, large scale and full size details of finished rooms and the approved shop drawings of other trades or from the Architects. In centering the outlets, due allowance shall be made for window and door trims, variations in thickness of pouring, plastering, etc., as erected, regardless of conditions which may be otherwise shown on small scale drawings. Outlets incorrectly located shall be properly relocated at the contractor's expense. Local switches shown near the doors shall be verified with the Architect's drawings before installation.

24. SERVICES

- a. Power supply coming from the Utility (BATELEC-II) shall be three phase, three-wire plus ground, **230 Volts, 60Hz**.
- b. Stand by diesel generator 150kVA and 38kVA, 3-phase w/ ground, 60 Hz, 240 Volts, silent type.

25. POWER SYSTEM

- a. Unless otherwise indicated on drawings, all motors shall be furnished, set up and secured in place by others trades.
- b. Unless otherwise indicated on drawings, the Electrical Contractor shall do all wiring for power, including the connection up to the motors and such as line switches, motor starters, speed regulators, circuit breakers, compensators or any other appliances that may be furnished with the motors. He shall also have there the presence of his representative when the motors are first started by the trade furnishing it in order to determine if correctly done.

26. POWER & LIGHTING DISTRIBUTION SYSTEM

- a. Furnish and install the lighting receptacle and power panels as indicated on plans and panel board schedule.

- b. From the main breaker, install feeders to the various outlying panels, motors or equipment as shown on the plans. Feeders shall underground in reinforced concrete encasement unless otherwise noted.

27. LIGHTING SYSTEM

- a. The lighting system shall be complete in every aspect, all as indicated on the plans as specified.
- b. All wiring shall be installed in electrical metallic tubing using concrete tight fittings connectors or as indicated in the plans and in general shall be concealed in the structure.
- c. Mounting heights of devices shall be as detailed on the plans or as follows:
 - Local switches - 1370mm from center of device to finished floor line.
 - Receptacles - 300mm above floor or 150mm above counters, or as shown on in architectural details.

28. EQUIPMENT GROUNDING SYSTEM

- a. The contractor shall furnish and install complete grounding system as shown in the drawings.
- b. All metallic conduits, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of each system shall be grounded by connecting to the ground grid.
- c. Contractor to test the grounding system to assure continuity and resistance to ground is not excessive. Submit written results of each test to the Engineer for approval.

29. WORK EXCLUDED

- a. Pull-out and relocation of distribution transformers including their pull-line hardware.
- b. Primary-metering of feeder supply to distribution transformers.
- c. Termination of service entrance cables.
- d. Power-up commissioning of relocated distribution transformers for the whole electrical system.

SECTION VII

TECHNICAL SPECIFICATIONS

Item No.	Section VI-Technical Specifications	% of Total	Unit	Quantity	Statement of Compliance
					Comply/Not Comply
I	MAIN DISCONNECT PANEL BOARD(ACB)	0.0291	L.S.	1.00	
II	CUSTOM BUILT MAIN DISTRIBUTION PANEL BOARD(MDPP)	0.0618	L.S.	1.00	
III	CUSTOM BUILT MAIN TRANSFER SWITCH(MTS-1 & MTS-2)	0.1025	L.S.	1.00	
IV	CABLES & WIRES	0.7757	L.S.	1.00	
V	µPVC CONDUITS & FITTINGS	0.0231	L.S.	1.00	
VI	AIRCONDITIONING	0.0050	L.S.	1.00	
VII	SMALL ITEMS	0.0027	L.S.	1.00	
TOTAL		100.0			

GENERAL

The work under this Section shall be subject to the requirements of the General Conditions, which shall be included as part of this Specifications and which shall apply to all work to be performed under the Electrical Section. The contract documents, instructions, drawings and specifications shall be considered as one. Whatever is called for by any of the documents shall be binding as if called for by all.

1. DESCRIPTION

The work to be done under this Section of the Specifications consists of the fabrication, furnishing, delivery and installation, complete in all detail of the Electrical Work at the subject premises and all work materials incidental to the proper completion of the projects, except those portion of the work which are expressly stated to be done by others. All work shall be in accordance with the governing Codes and Regulations and with the Specifications, except where some shall conflict with codes, etc., which the later shall then govern. The requirements in regard to materials and workmanship specify the required standard for the furnishing of all labor, materials and appliances necessary for the complete installation of the work specified herein and indicated on the drawings. These specifications are intended to provide a broad outline of the required equipment, but are not intended to include all details of the design and construction.

2. WORK INCLUDED

Under this Section and together with the specifications, provide all materials and equipment and perform all the work necessary for the complete execution of the electrical systems shown on the electrical drawings with reference to the general construction drawings as herein specified, or both except as otherwise excluding the generality of the foregoing, shall include but not limited to the following principal items of work:

- a. Supply and installation of service entrance feeder/cables to power powerhouse. Terminate at incoming terminal lugs of Main Air Circuit Disconnect panel board.
- b. Remove from existing location and re-installation of one (1) unit of 150kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-1.
- c. Remove from existing location and re-installation of one (1) unit of 38kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-2.
- d. Conduiting and wiring works for feeder supplies including grounding system.
- e. Supply, installation and wiring of complete electrical equipment/panel boards including that of powerhouse.
- f. Painting of all exposed electrical conduits, enclosures and equipment.
- g. Termination of all electrical system to the panel boards.
- h. Conduct resistance testing for the grounding system.
- i. Conduct megger testing for all cable/wires of main entrance and feeder line.
- j. Complete testing and commissioning of all electrical lighting, power.
- k. Application, payment of fees and securing Electrical Permit and Certificate of Electrical Final Inspection / Completion from local agency concerned (Municipal Engineer's Office).
- l. Application and securing the approval for the electrical power supply service connections including the preparation of the necessary plans, forms and related documents, payments of fees and charges and coordination with the involved parties and other authorities or persons involved in the procedures.
- m. If anything has been omitted for any items of work or materials usually furnished, which are necessary for the completion of the entire work as outlined herein before, then such items must be and hereby included in this section of work.

3. CODES, INSPECTIONS, PERMITS & FEES

- a. The work under this Contract is to install according to the requirements of the latest Philippine Electrical Code, the rules and regulations of Batangas City and the requirements of the Owner. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the national and local ordinances or laws governing the installation of the electrical work and all such laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.
- b. All permits and electrical fees required for this work shall be obtained by and at the expense of the Contractor. The Contractor shall furnish the Architect, Engineers and the Owner the final certificate of inspection and approval from the proper government authorities after the

completion of the work. The contractor shall prepare all "As-Built" electrical plans and all paperwork required by the approving authorities.

4. RECORD DRAWINGS

The Contractor shall, during the progress of the work, keep a careful record of all changes where the actual installation differs from that shown on the construction drawings. The Engineer will furnish at cost a complete set of sepia prints on which the Contractor shall, in a neat and accurate manner will make a complete record of all changes and revisions to the original design, as installed in the completed work. These drawings shall be submitted to the Engineer for approval.

After the approval they shall become the property of the Engineer and final payment will be withheld until receipt of the approved record drawings.

5. SHOP DRAWING & SAMPLES

- a. Prepare and submit for approval to the Engineer shop drawings and cuts of all equipment, appliances and fixtures to be furnished. After final approval by the Engineer, a sufficient number of copies as directed shall be furnished for distribution. Fixture and device cuts and/or catalogues shall be clearly.
- b. Marked to indicate the items furnished. Do not submit individual sheets, cuts, catalogues or drawings, for instance, wiring device cuts should be for all types, of devices to be furnished, rather than for a few types.
- c. Submit to the Engineer for the approval samples of conduits, wires, wiring devices, finished plates and or/any other items as may be required by the Engineers.
- d. Upon construction is finished as-built plan shall be submitted to the owner.

6. COORDINATION

The Contractor shall cooperate in every way and work with all other trades/disciplines to whose apparatus he shall connect is part of his work and also provide in his work connections and facilities for the connection of their work. The Contractor is hereby called upon to prepare such drawings of details of his equipment, locations of sleeves, inserts and supports as may be required for the assistance of the General Contractor and the sub-contractors for other mechanical trades. Upon demand, he shall furnish these drawings in adequate numbers for the information of all parties concerned and shall coordinate the preparation of these drawings by consultation with other trades involved before submitting them. The approval of such drawings will not relieve the Contractor in any way from the responsibility of not properly locating or coordinating his work with the work of others.

7. MINOR MODIFICATIONS

The plans as drawn are based upon the architectural plans and the details and shown condition as accurately as it is possible to indicate them in scale. The plans are diagrammatical and do not necessarily shows all fittings etc., necessary to fit to the building conditions. The locations of outlets, apparatus and appliances shown on the plans are approximate. The Contractor shall be responsible for the proper location in order to make them fit with the architectural details and instructions from Engineer's representative at the site.

8. GUARANTEES

This Contractor shall guarantee that the entire electrical systems are free from all defective workmanship and materials and will remain so for a period of two (2) years from the date of acceptance of the work.

The Contractor shall indemnify and save harmless the Owner, the Architect and the Engineer from and against all liability for damages arising from injuries or disabilities to persons or damages to property occasioned by any or omission of the Contractor or any of his sub-contractors including any and all legal expenses or otherwise, which may be incurred by the Owner, the Architect or the Engineer in the defense of any claims, actions, or suit.

9. APPROVALS / SUBSTITUTIONS

Wherever hereinafter the work 'for approval', or 'approved' (make, type, size, arrangement, etc. are used, especially in regard to manufactured specialties or wherever it is desired to substitute a different make or type of apparatus, shall be submitted to the Engineer and their approval must be secured before the Apparatus is ordered or installed.

10. SUBCONTRACTS

The Contractor shall be held fully responsible for the work of any sub-contractors or manufacturer performing work or supplying materials, as it is intended that the entire electrical work, when finally delivered to the Owner, shall be ready in every respect for satisfactory and efficient operation.

11. WORKMANSHIP

- a. The work throughout shall be executed in the best and through manner under the direction of and to the satisfaction of the Architect and the Engineer, who will jointly interpret the meaning of the drawings and specifications and shall have the power to reject any work and materials, which in their judgment are not in full accordance therewith.
- b. The Contractor shall have in his life, for ready access and reference, a set of drawings indicating all work as normally installed, incorporating in same all changes and additions. Upon the termination of the Contract, he shall prepare a set of tracings indicating thereon the electrical work as actually and finally installed. These tracings shall be turned over to the Engineer.

12. STANDARD OF MATERIALS

- a. All materials shall be new and shall conform to any of the standards of such as **UL, ASA, IEEE, NEMA, IPCEA and ASTM** in every case where such a standard has been established for the particular type of materials in question.
- b. All materials on all systems shall comply with the following specifications, unless noted specifically and all materials when not specified shall be the best of their respective kind.
- c. Samples of any materials shall be submitted for approval to the designing Electrical Engineer.

13. INSTALLATION REQUIREMENTS

- a. **Approval of equipment and materials:** All electrical materials shall be new and must meet the requirements of the specifications and shall bear the inspection label wherever such standard has been established. As soon as practicable and within thirty days after the official award of Contract and before any materials or equipment is ordered, the Contractor shall submit to the Engineer for approval, one complete list of materials, apparatus and equipment, in triplicate, giving the manufacturer's name, address, descriptive data, trade name of items, rated capacities, certified analysis catalogue number, etc., and when called upon to do so, the complete specifications and cut of drawings of such item, of whole or portion of list, as required by the Engineer, which he proposes to use or install.
- b. **Ground Test:** The entire installation shall be free from improper ground and from short circuits. This shall be tested and recorded in the presence Owner's representative, Project Manager and/or the Engineer. Each panel shall tested with main connected to the feeder. Each individual power feeder shall be tested with the power equipment connected for proper and intended operation. In no case shall the insulation resistance be less than that allowed by the regulations for electrical equipment and buildings. Failures shall be corrected in a manner satisfactory to the Engineers.
- c. **Performance Test:** It shall be the responsibility of the Electrical Contractor to test all systems of the entire electrical installation for proper operational conditions. This condition shall apply to the power, lighting and auxiliary installations. Where sequence operation is required, the electrical contractor shall test for proper sequence and he shall leave the entire electrical installation in satisfactory working condition.
- d. **Cutting and Fittings:** The Contractor shall do all cutting and fittings required for the installation of the work to make and join the several parts and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer.
- e. **Protection:** The Contractor shall effectually protect his own work from damage during and as may be necessary after installation and he shall likewise protect adjoining work of other trades from damage resulting from the installation of electrical work.

14. CONTRACT DRAWINGS

The location of various items indicated on the drawings are presumed to be approximately correct, but it is to be understood however, that the small scale drawings are necessarily diagrammatic and that such locations as shown, are subject to slight revision as the work is installed, which may be necessary to accommodate local construction conditions. No major change shall be made, however, without the approval in writing to the Engineers. The contractor shall examine and study the architectural scale drawings, large scale and full size details, the approved shop drawings of other trades and he shall frequently consult with the General Contractor to ascertain any changes that may have been made and he shall be guided accordingly before establishing the precise locations of conduit runs, panels, pull and junction boxes, and outlets for all electrical system.

15. WIRES & CABLES

- a. All wires shall be copper, soft-drawn and annealed, shall be of 99% conductivity, shall be smooth and true and of a cylindrical form and shall be within 1% of the actual size called for.
- b. All wires and cables shall comply with the requirements of the **Underwriter's Laboratories**, the **A.S.T.M.** and the **I.P.C.E.A.** as they apply in the particular.

- c. Wires and cables for lightning, power and auxiliary systems shall be nylon jacketed, plastic insulated for 600 volts working pressure, type **THNN/THWN** unless otherwise noted.
- d. For lighting system, no Wire smaller than **2.0 mm². (AWG No. 14 stranded)** shall be used and must be color-coded.
- e. For power system, no Wire smaller than **3.5 mm². (AWG No. 12 stranded)** shall be used and must be color-coded.
- f. All Wires and cable shall be color-coded and as manufactured by **Phelps Dodge** or its equivalent in quality. Color-coding of wires are as follows:

Line A - Red	Ground - White
Line B - Yellow	Control wire #01 - Yellow
Line C - Black	Control wire #02 - Blue

16. CONDUITS

- a. Metallic conduits for interior and exterior systems shall be a standard weight, mild steel, hot-dipped galvanized with an interior. PVC non-metallic conduits. Embedded in concrete slabs, concrete walls and partitions shall be high-impact type by **Emerald** or its approved equivalent.
- b. No conduits shall be used in any system smaller than 15mm dia. electric trade size, nor shall have more than four 90-degree bends in any one run and when necessary, pull boxes shall be provided ' as directed. Location and sizes of pull boxes shall be cleared to the Engineer prior to fabrication and installation.
- c. No wires shall be pulled into any conduit unless the conduit system is complete in all details. In the case of concealed work, no wires shall be pulled until all rough plastering or masonry has been completed and in the case of exposed work, until the conduit has been completed in every detail.
- d. The ends of all conduits shall be tightly plugged to exclude plaster, dust and moisture while the building is in the process of construction.
- e. All pipes and fittings on exposed work shall be secured by means of **Kindorff channels and clamps**. Conduit lay outing, in all cases shall run perfectly straight and rule, satisfactory to the architect and to the engineer.

17. OUTLETS, BOXES & FITTINGS

- a. All outlets of whatever kind, for all systems, shall be provided with suitable fittings, which shall be either a box or other devices especially designed to receive the type of fittings to be mounted thereon.
- b. The Contractor shall consult with the Architect and the Engineer as to the nature of the various fittings to be used before installing the outlet fittings and shall conform strictly in the use of such fittings, to the nature of the appliance to be mounted on them, so that the work, when finished will be a completed design.
- c. In the case of fixtures, the outlet fittings shall be provided with suitable fixture supports of a size and kind required by the fixture to be hung. Fixture studs in general shall be 9.375mm dia.

18. JUNCTION & PULL BOXES

- a. Junction and pull boxes, per code gage steel, shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finished places shall be located and installed with the permission of and to the satisfaction of the Architect and Engineer. Sizes shall be subject to the approval or the engineer.
- b. Junction and pull boxes must be painted for environmental protection.

19. WALL SWITCHES, OUTLETS

- a. Wall switches shall be rated at 15 amperes, 300volts, one-way, two-pole, three-way or four-way as required. Certain combinations shall be furnished with pilot lights as required and where indicated on the drawings. Switches shall be of the quick connect terminal operated. The type of switch shall be tumbler operation and the color plating and appearance of walls plates shall selected by the Architect and appropriate samples shall be submitted prior to the purchase of wall switches and wall plates. Switches shall be manufactured by **National, Toshiba or Anam** it's approved equivalent.
- b. Receptacle outlets shall be for flush mounting, duplex rate at 1 0 ampere, 250 volts, grounding type 3-wire. Type and color of receptacle outlet plates shall be selected by the Architect, and appropriate samples of outlets and plates shall be submitted prior to purchase of devices. Receptacles shall be as manufactured by **National, Toshiba or Anam** or it's approved.

20. PLATES

All switches and receptacle plates shall be as approved by the Architect and Engineers, prior to procurement.

21. PANELS & CABINETS

- a. Standard panels and cabinets as far as possible shall be used and assembled at jobsite. All panels shall be of dead front construction furnished with trims for flush or surface mounting, as required. Cabinets shall be of code gauge steel with gutters at least 150mm and wider, if necessary. The trim for all panels shall be finished in light gray enamel (ANSI #61) over a rust inhibitor.
- b. Panels and cabinets shall be fabricated by a reputable fabricator. Fabricator's shop drawings in triplicate copies shall be submitted for approval before fabricating the panels. Only one brand of circuit breaker and fabricator shall be used for the entire requirements of the project. Combinations of brand will be rejected.
- c. Lighting panels shall be required with two-pole circuit breaker in the branch circuits and in the main unless noted otherwise on plans. As indicated on plans, the panels shall be assembled in two or more sections where over one pole circuits. Ground bus terminals shall be standard features to the panel.

22. INDIVIDUAL BREAKERS & SWITCHES

- a. Provide individual circuit breakers and disconnect switches when indicated on the plans. Voltage rating shall be suitable in each case of service application.

- b. Enclosure for indoor application shall be NEMA-1, and for outdoor application shall be stainless steel, corrosion-proof NEMA-4X unless otherwise indicated in the plans.
- c. All protective devices shall meet NEMA and Underwriters Laboratories, Inc., specifications.
- d. Circuit breakers shall consists of a quick-make, quick-break type entirely tip free operating mechanism contacts with arc interrupter and thermal magnetic trip used for each pole and enclosed in a molded phenol case. The thermal magnetic trip unit shall provide time delay overload protection and instantaneous short circuit protection and shall operate internal common trip bar which will open all poles in case of overload or short circuit in any one-pole. Circuit breaker shall be trip indicating with the tripped position of breaker midway between 'ON' and 'OFF' positions.
- e. Only one single brand of circuit breaker shall be used on the entire project requirement. The acceptable brands are **G.E, Square-D, and Fuji Electric** or its approved equivalent. Submit brochures for approval.
- f. Minimum interrupting capacities of each circuit breaker are indicated on the load schedule. Application of circuit breakers shall be approved for the intended load per panel board schedule.
- g. Safety and disconnect switches shall be non-fusible and of sizes indicated on plans and shall be normal duty type, except as noted otherwise. Enclosures shall be NEMA-1 for indoor use and stainless steel, corrosion-proof NEMA-4X for outdoor use.

23. LOCATION OF WIRING & OUTLETS

- a. The Contractor shall coordinate his work with all trades involved so that exact locations may be obtained for all outlets, apparatus, appliances and equipment. The circuit numbers indicated as numbers 1, 2, 3 may not correspond to actual panel circuit connection numbers but must be balanced for better load distribution.
- b. The location of outlets shown on diagrammatic wiring plans shall be considered as approximate and it shall be incumbent upon the Contractor, before installation of outlets boxes, to study all pertinent drawings and obtain precise information from the architectural schedules, scale drawings, large scale and full size details of finished rooms and the approved shop drawings of other trades or from the Architects. In centering the outlets, due allowance shall be made for window and door trims, variations in thickness of pouring, plastering, etc., as erected, regardless of conditions which may be otherwise shown on small scale drawings. Outlets incorrectly located shall be properly relocated at the contractor's expense. Local switches shown near the doors shall be verified with the Architect's drawings before installation.

24. SERVICES

- a. Power supply coming from the Utility (BATELEC-II) shall be three phase, three-wire plus ground, **230 Volts, 60Hz**.
- b. Stand by diesel generator 150kVA and 38kVA, 3-phase w/ ground, 60 Hz, 240 Volts, silent type.

25. POWER SYSTEM

- a. Unless otherwise indicated on drawings, all motors shall be furnished, set up and secured in place by others trades.
- b. Unless otherwise indicated on drawings, the Electrical Contractor shall do all wiring for power, including the connection up to the motors and such as line switches, motor starters, speed regulators, circuit breakers, compensators or any other appliances that may be furnished with the motors. He shall also have there the presence of his representative when the motors are first started by the trade furnishing it in order to determine if correctly done.

26. POWER & LIGHTING DISTRIBUTION SYSTEM

- a. Furnished and install the lighting receptacle and power panels as indicated on plans and panel board schedule.
- b. From the main breaker, install feeders to the various outlying panels, motors or equipment as shown on the plans. Feeders shall underground in reinforced concrete encasement unless otherwise noted.

27. LIGHTING SYSTEM

- a. The lighting system shall be complete in every aspect, all as indicated on the plans as specified.
- b. All wiring shall be installed in electrical metallic tubing using concrete tight fittings connectors or as indicated in the plans and in general shall be concealed in the structure.
- c. Mounting heights of devices shall be as detailed on the plans or as follows:

Local switches - 1370mm from center of device to finished floor line.

Receptacles - 300mm above floor or 150mm above counters, or as shown on in architectural details.

28. EQUIPMENT GROUNDING SYSTEM

- a. The contractor shall furnish and install complete grounding system as shown in the drawings.
- b. All metallic conduits, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of each system shall be grounded by connecting to the ground grid.
- c. Contractor to test the grounding system to assure continuity and resistance to ground is not excessive. Submit written results of each test to the Engineer for approval.

29. WORK EXCLUDED

- a. Pull-out and relocation of distribution transformers including their pull-line hardware.
- b. Primary-metering of feeder supply to distribution transformers.
- c. Termination of service entrance cables.
- d. Power-up commissioning of relocated distribution transformers for the whole electrical system.

SECTION VIII

BIDDING FORMS

List of Forms

Form No.	Title
BatStateU Goods Form No. 1	Bid Form
BatStateU Goods Form No. 2	List of On-going Government and Private Contracts including Contracts Awarded but not yet started
BatStateU Goods Form No. 3	Statement of all Government and Private completed contracts which are similar in nature
BatStateU Goods Form No. 4	Net Financial Contracting Capacity
BatStateU Goods Form No. 5a	Bank Guarantee
BatStateU Goods Form No. 5b	Surety Bond
BatStateU Goods Form No. 5c	Bid Securing Declaration
BatStateU Goods Form No. 6	Conformity with Technical Specifications and Schedule of Requirements
BatStateU Goods Form No. 7	Omnibus Sworn Statement
BatStateU Goods Form No. 8	Request for Clarification
BatStateU Goods Form No. 9	Bill of Quantities

BID FORM

Date: _____

To: **DR. JESSIE A. MONTALBO**
BAC Chairman
Batangas State University
Batangas City

Gentlemen and / or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers [*insert numbers*], the receipt of which is hereby duly acknowledge, we, the undersigned, offer to [*supply / deliver / perform*][*description of the Goods*] in conformity with the said Bidding Documents for the sum as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity specified in the **BDS** provision for **ITB** Clause 18.2 and it shall remain binding upon us and maybe accepted at any time before the expiration of that period.

Commissions or gratuities, if any, paid or to be paid to us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and Address of agent	Amount and Currency	Purpose of Commission or Gratuity
_____	_____	_____
_____	_____	_____

(if none, state "None")

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the lowest or any bid you may receive.

We certify / confirm that we comply with the eligibility requirements as per **ITB** Clause 5 of the Bidding Documents.

Dated this _____ day of _____, 2013.

[Signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____.

Statement of all Government & Private Contracts completed which are similar in nature

Business Name : _____

Business Address : _____

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at Completion	a. Date Awarded b. Contract Effectivity
			Description	%		
<u>Government</u>						
<u>Private</u>						

Note: This statement shall be supported with:

- 1 Contract
- 2 Certificate of Completion
- 3 Certificate of Acceptance

Submitted by : _____
 (Printed Name & Signature)

Designation : _____

Date : _____

NET FINANCIAL CONTRACTING CAPACITY

- A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = K (current asset - current liabilities) minus value of all outstanding works under ongoing contracts including awarded contracts yet to be started

NFCC = P _____

K = 10 for a contract duration of one year or less, 15 for more than one year up to two years and 20 for more than two years

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding year.

Submitted by:

Name of Supplier / Distributor / Manufacturer

Signature of Authorized Representative

Date : _____

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

**BID SECURITY
(BANK GUARANTEE)**

WHEREAS, (Name of Bidder) (hereinafter called "the Bidder") has submitted his bid dated (Date) for the (Name of Contract) (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We (Name of Bank) of (Name of Country) having our registered office at _____ (hereinafter called "the Bank" are bound unto (Name of Employer) (hereinafter called "the Employer") in the sum of _____² for which payment well and truly to be made to the said Employer the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ____ day of _____ 20__.

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws his Bid during the period of bid validity specified in the Form of Bid; or
- 2) If the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) If the Bidder having been notified of the acceptance of his bid by the Employer during the period of bid validity:
 - a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date _____³ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK _____

WITNESS _____ SEAL _____

(Signature, Name and Address)

² The bidder should insert the amount of the guarantee in words and figures, denominated in the currency of the Employer's country or an equivalent amount in a freely convertible currency. This figure should be the same as shown of the Instructions to Bidders.

³ Usually 28 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the bidding documents are issued.

**BID SECURITY
SURETY BOND**

BOND NO.: _____

DATE BOND EXECUTED: _____

By this bond, We (Name of Bidder) (hereinafter called "the Principal") as Principal and (Name of Surety) of the country of (Name of Country of Surety), authorized to transact business in the country of (Name of Country of Employer) (hereinafter called "the Surety") are held and firmly bound unto (Name of Employer) (hereinafter called "the Employer") as Obligee, in the sum of _____¹ for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this ____ day of _____ 20 _____

WHEREAS, the Principal has submitted a written Bid to the Employer dated the ____ day of _____ 20 _____, for the _____ (hereinafter called "the Bid").

NOW, THEREFORE, the conditions of this obligation are:

- 1) If the Principal withdraws his Bid during the period of bid validity specified in the Form of Bid; or
- 2) If the Principal does not accept the correction of arithmetical errors of his bid price in accordance with the Instruction's to Bidders; or
- 3) If the Principal having been notified of the acceptance of his Bid by the Employer during the period of bid validity:
 - a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

¹ The bidder should insert the amount of bond in words and figures, denominated in the currency of the Employer's country of an equivalent amount in a freely convertible currency and callable on demand. This figure should be the same as shown in the Instructions to Bidders.

PROVIDED HOWEVER, that the Surety shall not be:

- a) liable for a greater sum than the specified penalty of this bond, nor
- b) liable for a greater sum than the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL _____

SURETY _____

SIGNATURE(S) _____

SIGNATURES(S) _____

NAME(S) AND TITLE(S) _____

NAME(S) _____

SEAL _____

SEAL _____

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

BID-SECURING DECLARATION

Invitation to Bid No. _____ *[insert reference number]*

To: BATANGAS STATE UNIVERSITY
RIZAL AVENUE, BATANGAS CITY

I / We, the undersigned, declare that:

1. I / we understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I / We accept that: (a) I / we will be automatically disqualified from bidding for any contract with any procuring entity for the period of two (2) years upon receipt of your Blacklisting Order; and (b) I / we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, if I / we have committed any of the following actions:
 - i) Withdrawn my / our Bid during the period of bid validity required in the Bidding documents; or
 - ii) Fail or refuse to accept the award and enter into contract or perform any and all acts necessary to the execution of the contract, in accordance with the Bidding Documents after having been notified of your acceptance of our Bid during the period of bid validity.
3. I / we understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b) I am / we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I / we failed to timely file a request for reconsideration or (ii) I / we filed a waiver to avail of said right;
 - c) I am / we are declared as the bidder with the Lowest Calculated and Responsive Bid / Highest Rated and Responsive Bid, and I / we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I / we have hereunto set my / our hand/s this ____ day of _____, at _____.

Name of Bidder
Authorized Representative
Legal Capacity
Affiant

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

Witness my hand and seal this ____ day of _____.

NAME OF NOTARIAL PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorney's No. _____

PTR No. _____, *[date issued]*, *[place issued]*

IBP No. _____, *[date issued]*, *[place issued]*

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

Conformity with Schedule of Requirements & Technical Specifications

Item No.	Section VI-Schedule of Requirements	% of Total	Unit	Quantity
I	MAIN DISCONNECT PANEL BOARD(ACB)	0.0291	L.S.	1.00
II	CUSTOM BUILT MAIN DISTRIBUTION PANEL BOARD(MDPP)	0.0618	L.S.	1.00
III	CUSTOM BUILT MAIN TRANSFER SWITCH(MTS-1 & MTS-2)	0.1025	L.S.	1.00
IV	CABLES & WIRES	0.7757	L.S.	1.00
V	µPVC CONDUITS & FITTINGS	0.0231	L.S.	1.00
VI	AIRCONDITIONING	0.0050	L.S.	1.00
VII	SMALL ITEMS	0.0027	L.S.	1.00

GENERAL

The work under this Section shall be subject to the requirements of the General Conditions, which shall be included as part of this Specifications and which shall apply to all work to be performed under the Electrical Section. The contract documents, instructions, drawings and specifications shall be considered as one. Whatever is called for by any of the documents shall be binding as if called for by all.

1. DESCRIPTION

The work to be done under this Section of the Specifications consists of the fabrication, furnishing, delivery and installation, complete in all detail of the Electrical Work at the subject premises and all work materials incidental to the proper completion of the projects, except those portion of the work which are expressly stated to be done by others. All work shall be in accordance with the governing Codes and Regulations and with the Specifications, except where some shall conflict with codes, etc., which the later shall then govern. The requirements in regard to materials and workmanship specify the required standard for the furnishing of all labor, materials and appliances necessary for the complete installation of the work specified herein and indicated on the drawings. These specifications are intended to provide a broad outline of the required equipment, but are not intended to include all details of the design and construction.

2. WORK INCLUDED

Under this Section and together with the specifications, provide all materials and equipment and perform all the work necessary for the complete execution of the electrical systems shown on the electrical drawings with reference to the general construction drawings as herein specified, or both except as otherwise excluding the generality of the foregoing, shall include but not limited to the following principal items of work:

- a. Supply and installation of service entrance feeder/cables to power powerhouse. Terminate at incoming terminal lugs of Main Air Circuit Disconnect panel board.

- b. Remove from existing location and re-installation of one (1) unit of 150kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-1.
- c. Remove from existing location and re-installation of one (1) unit of 38kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-2.
- d. Conduiting and wiring works for feeder supplies including grounding system.
- e. Supply, installation and wiring of complete electrical equipment/panel boards including that of powerhouse.
- f. Painting of all exposed electrical conduits, enclosures and equipment.
- g. Termination of all electrical system to the panel boards.
- h. Conduct resistance testing for the grounding system.
- i. Conduct megger testing for all cable/wires of main entrance and feeder line.
- j. Complete testing and commissioning of all electrical lighting, power.
- k. Application, payment of fees and securing Electrical Permit and Certificate of Electrical Final Inspection / Completion from local agency concerned (Municipal Engineer's Office).
- l. Application and securing the approval for the electrical power supply service connections including the preparation of the necessary plans, forms and related documents, payments of fees and charges and coordination with the involved parties and other authorities or persons involved in the procedures.
- m. If anything has been omitted for any items of work or materials usually furnished, which are necessary for the completion of the entire work as outlined herein before, then such items must be and hereby included in this section of work.

3. CODES, INSPECTIONS, PERMITS & FEES

- a. The work under this Contract is to install according to the requirements of the latest Philippine Electrical Code, the rules and regulations of Batangas City and the requirements of the Owner. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the national and local ordinances or laws governing the installation of the electrical work and all such laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.
- b. All permits and electrical fees required for this work shall be obtained by and at the expense of the Contractor. The Contractor shall furnish the Architect, Engineers and the Owner the final certificate of inspection and approval from the proper government authorities after the completion of the work. The contractor shall prepare all "As-Built" electrical plans and all paperwork required by the approving authorities.

4. RECORD DRAWINGS

The Contractor shall, during the progress of the work, keep a careful record of all changes where the actual installation differs from that shown on the construction drawings. The Engineer will furnish at

cost a complete set of sepia prints on which the Contractor shall, in a neat and accurate manner will make a complete record of all changes and revisions to the original design, as installed in the completed work. These drawings shall be submitted to the Engineer for approval.

After the approval they shall become the property of the Engineer and final payment will be withheld until receipt of the approved record drawings.

5. SHOP DRAWING & SAMPLES

- a. Prepare and submit for approval to the Engineer shop drawings and cuts of all equipment, appliances and fixtures to be furnished. After final approval by the Engineer, a sufficient number of copies as directed shall be furnished for distribution. Fixture and device cuts and/or catalogues shall be clearly.
- b. Marked to indicate the items furnished. Do not submit individual sheets, cuts, catalogues or drawings, for instance, wiring device cuts should be for all types, of devices to be furnished, rather than for a few types.
- c. Submit to the Engineer for the approval samples of conduits, wires, wiring devices, finished plates and or/any other items as may be required by the Engineers.
- d. Upon construction is finished as-built plan shall be submitted to the owner.

6. COORDINATION

The Contractor shall cooperate in every way and work with all other trades/disciplines to whose apparatus he shall connect is part of his work and also provide in his work connections and facilities for the connection of their work. The Contractor is hereby called upon to prepare such drawings of details of his equipment, locations of sleeves, inserts and supports as may be required for the assistance of the General Contractor and the sub-contractors for other mechanical trades. Upon demand, he shall furnish these drawings in adequate numbers for the information of all parties concerned and shall coordinate the preparation of these drawings by consultation with other trades involved before submitting them. The approval of such drawings will not relieve the Contractor in any way from the responsibility of not properly locating or coordinating his work with the work of others.

7. MINOR MODIFICATIONS

The plans as drawn are based upon the architectural plans and the details and shown condition as accurately as it is possible to indicate them in scale. The plans are diagrammatical and do not necessarily shows all fittings etc., necessary to fit to the building conditions. The locations of outlets, apparatus and appliances shown on the plans are approximate. The Contractor shall be responsible for the proper location in order to make them fit with the architectural details and instructions from Engineer's representative at the site.

8. GUARANTEES

This Contractor shall guarantee that the entire electrical systems are free from all defective workmanship and materials and will remain so far a period of two (1) year from the date of acceptance of the work.

The Contractor shall indemnify and save harmless the Owner, the Architect and the Engineer from and against all liability for damages arising from injuries or disabilities to persons or damages to

property occasioned by any or omission of the Contractor or any of his sub-contractors including any and all legal expenses or otherwise, which may be incurred by the Owner, the Architect or the Engineer in the defense of any claims, actions, or suit.

9. APPROVALS / SUBSTITUTIONS

Wherever hereinafter the work 'for approval', or 'approved' (make, type, size, arrangement, etc. are used, especially in regard to manufactured specialties or wherever it is desired to substitute a different make or type of apparatus, shall be submitted to the Engineer and their approval must be secured before the Apparatus is ordered or installed.

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The Contractor shall be held fully responsible for the work of any sub-contractors or manufacturer performing work or supplying materials, as it is intended that the entire electrical work, when finally delivered to the Owner, shall be ready in every respect for satisfactory and efficient operation.

11. WORKMANSHIP

- a. The work throughout shall be executed in the best and through manner under the direction of and to the satisfaction of the Architect and the Engineer, who will jointly interpret the meaning of the drawings and specifications and shall have the power to reject any work and materials, which in their judgment are not in full accordance therewith.
- b. The Contractor shall have in his life, for ready access and reference, a set of drawings indicating all work as normally installed, incorporating in same all changes and additions. Upon the termination of the Contract, he shall prepare a set of tracings indicating thereon the electrical work as actually and finally installed. These tracings shall be turned over to the Engineer.

12. STANDARD OF MATERIALS

- a. All materials shall be new and shall conform to any of the standards of such as **UL, ASA, IEEE, NEMA, IPCEA and ASTM** in every case where such a standard has been established for the particular type of materials in question.
- b. All materials on all systems shall comply with the following specifications, unless noted specifically and all materials when not specified shall be the best of their respective kind.
- c. Samples of any materials shall be submitted for approval to the designing Electrical Engineer.

13. INSTALLATION REQUIREMENTS

- a. **Approval of equipment and materials:** All electrical materials shall be new and must meet the requirements of the specifications and shall bear the inspection label wherever such standard has been established. As soon as practicable and within thirty days after the official award of Contract and before any materials or equipment is ordered, the Contractor shall submit to the Engineer for approval, one complete list of materials, apparatus and equipment, in triplicate, giving the manufacturer's name, address, descriptive data, trade name of items, rated capacities, certified analysis catalogue number, etc., and when called upon to do so, the

complete specifications and cut of drawings of such item, of whole or portion of list, as required by the Engineer, which he proposes to use or install.

- b. **Ground Test:** The entire installation shall be free from improper ground and from short circuits. This shall be tested and recorded in the presence Owner's representative, Project Manager and/or the Engineer. Each panel shall tested with main connected to the feeder. Each individual power feeder shall be tested with the power equipment connected for proper and intended operation. In no case shall the insulation resistance be less than that allowed by the regulations for electrical equipment and buildings. Failures shall be corrected in a manner satisfactory to the Engineers.
- c. **Performance Test:** It shall be the responsibility of the Electrical Contractor to test all systems of the entire electrical installation for proper operational conditions. This condition shall apply to the power, lighting and auxiliary installations. Where sequence operation is required, the electrical contractor shall test for proper sequence and he shall leave the entire electrical installation in satisfactory working condition.
- d. **Cutting and Fittings:** The Contractor shall do all cutting and fittings required for the installation of the work to make and join the several parts and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer.
- e. **Protection:** The Contractor shall effectually protect his own work from damage during and as may be necessary after installation and he shall likewise protect adjoining work of other trades from damage resulting from the installation of electrical work.

14. CONTRACT DRAWINGS

The location of various items indicated on the drawings are presumed to be approximately correct, but it is to be understood however, that the small scale drawings are necessarily diagrammatic and that such locations as shown, are subject to slight revision as the work is installed, which may be necessary to accommodate local construction conditions. No major change shall be made, however, without the approval in writing to the Engineers. The contractor shall examine and study the architectural scale drawings, large scale and full size details, the approved shop drawings of other trades and he shall frequently consult with the General Contractor to ascertain any changes that may have been made and he shall be guided accordingly before establishing the precise locations of conduit runs, panels, pull and junction boxes, and outlets for all electrical system.

15. WIRES & CABLES

- a. All wires shall be copper, soft-drawn and annealed, shall be of 99% conductivity, shall be smooth and true and of a cylindrical form and shall be within 1% of the actual size called for.
- b. All wires and cables shall comply with the requirements of the **Underwriter's Laboratories**, the **A.S.T.M.** and the **I.P.C.E.A.** as they apply in the particular.
- c. Wires and cables for lightning, power and auxiliary systems shall be nylon jacketed, plastic insulated for 600 volts working pressure, type **THNN/THWN** unless otherwise noted.
- d. For lighting system, no Wire smaller than **2.0 mm². (AWG No. 14 stranded)** shall be used and must be color-coded.
- e. For power system, no Wire smaller than **3.5 mm². (AWG No. 12 stranded)** shall be used and must be color-coded.

- f. All Wires and cable shall be color-coded and as manufactured by **Phelps Dodge** or its equivalent in quality. Color-coding or wires are as follows:

Line A - Red	Ground - White
Line B - Yellow	Control wire #01 - Yellow
Line C - Black	Control wire #02 – Blue

16. CONDUITS

- a. Metallic conduits for interior and exterior systems shall be a standard weight, mild steel, hot-dipped galvanized with an interior. PVC non-metallic conduits. Embedded in concrete slabs, concrete walls and partitions shall be high-impact type by **Emerald** or its approved equivalent.
- b. No conduits shall be used in any system smaller than 15mm dia. electric trade size, nor shall have more than four 90-degree bends in any one run and when necessary, pull boxes shall be provided ' as directed. Location and sizes of pull boxes shall be cleared to the Engineer prior to fabrication and installation.
- c. No wires shall be pulled into any conduit unless the conduit system is complete in all details. In the case of concealed work, no wires shall be pulled until all rough plastering or masonry has been completed and in the case or exposed work, until the conduit has been completed in every detail.
- d. The ends of all conduits shall be tightly plugged to exclude plaster, dust and moisture while the building is in the process of construction.
- e. All pipes and fittings on exposed work shall be secured by means of **Kindorff channels** and **clamps**. Conduit lay outing, in all cases shall run perfectly straight and rule, satisfactory to the architect and to the engineer.

17. OUTLETS, BOXES & FITTINGS

- a. All outlets of whatever kind, for all systems, shall be provided with suitable fittings, which shall be either a box or other devices especially designed to receive the type of fittings to be mounted thereon.
- b. The Contractor shall consult with the Architect and the Engineer as to the nature of the various fittings to be used before installing the outlet fittings and shall conform strictly in the use of such fittings, to the nature of the appliance to be mounted on them, so that the work, when finished will be a completed design.
- c. In the case of fixtures, the outlet fittings shall be provided with suitable fixture supports of a size and kind required by the fixture to be hung. Fixture studs in general shall be 9.375mm dia.

18. JUNCTION & PULL BOXES

- a. Junction and pull boxes, per code gage steel, shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finished places shall be located and installed with the permission of and to the satisfaction of the Architect and Engineer. Sizes shall be subject to the approval or the engineer.
- b. Junction and pull boxes must be painted for environmental protection.

19. WALL SWITCHES, OUTLETS

- a. Wall switches shall be rated at 15 amperes, 300volts, one-way, two-pole, three-way or four-way as required. Certain combinations shall be furnished with pilot lights as required and where indicated on the drawings. Switches shall be of the quick connect terminal operated. The type of switch shall be tumbler operation and the color plating and appearance of walls plates shall selected by the Architect and appropriate samples shall be submitted prior to the purchase of wall switches and wall plates. Switches shall be manufactured by **National, Toshiba or Anam** it's approved equivalent.
- b. Receptacle outlets shall be for flush mounting, duplex rate at 1 0 ampere, 250 volts, grounding type 3-wire. Type and color of receptacle outlet plates shall be selected by the Architect, and appropriate samples of outlets and plates shall be submitted prior to purchase of devices. Receptacles shall be as manufactured by **National, Toshiba or Anam** or it's approved.

20. PLATES

All switches and receptacle plates shall be as approved by the Architect and Engineers, prior to procurement.

21. PANELS & CABINETS

- a. Standard panels and cabinets as far as possible shall be used and assembled at jobsite. All panels shall be of dead front construction furnished with trims for flush or surface mounting, as required. Cabinets shall be of code gauge steel with gutters at least 150mm and wider, if necessary. The trim for all panels shall be finished in light gray enamel (ANSI #61) over a rust inhibitor.
- b. Panels and cabinets shall be fabricated by a reputable fabricator. Fabricator's shop drawings in triplicate copies shall be submitted for approval before fabricating the panels. Only one brand of circuit breaker and fabricator shall be used for the entire requirements of the project. Combinations of brand will be rejected.
- c. Lighting panels shall be required with two-pole circuit breaker in the branch circuits and in the main unless noted otherwise on plans. As indicated on plans, the panels shall be assembled in two or more sections where over one pole circuits. Ground bus terminals shall be standard features to the panel.

22. INDIVIDUAL BREAKERS & SWITCHES

- a. Provide individual circuit breakers and disconnect switches when indicated on the plans. Voltage rating shall be suitable in each case of service application.
- b. Enclosure for indoor application shall be NEMA-1, and for outdoor application shall be stainless steel, corrosion-proof NEMA-4X unless otherwise indicated in the plans.
- c. All protective devices shall meet NEMA and Underwriters Laboratories, Inc., specifications.
- d. Circuit breakers shall consists of a quick-make, quick-break type entirely tip free operating mechanism contacts with arc interrupter and thermal magnetic trip used for each pole and enclosed in a molded phenol case. The thermal magnetic trip unit shall provide time delay overload protection and instantaneous short circuit protection and shall operate internal

common trip bar which will open all poles in case of overload or short circuit in any one-pole. Circuit breaker shall be trip indicating with the tripped position of breaker midway between 'ON' and 'OFF' positions.

- e. Only one single brand of circuit breaker shall be used on the entire project requirement. The acceptable brands are **G.E, Square-D, and Fuji Electric** or its approved equivalent. Submit brochures for approval.
- f. Minimum interrupting capacities of each circuit breaker are indicated on the load schedule. Application of circuit breakers shall be approved for the intended load per panel board schedule.
- g. Safety and disconnect switches shall be non-fusible and of sizes indicated on plans and shall be normal duty type, except as noted otherwise. Enclosures shall be NEMA-1 for indoor use and stainless steel, corrosion-proof NEMA-4X for outdoor use.

23. LOCATION OF WIRING & OUTLETS

- a. The Contractor shall coordinate his work with all trades involved so that exact locations may be obtained for all outlets, apparatus, appliances and equipment. The circuit numbers indicated as numbers 1, 2, 3 may not correspond to actual panel circuit connection numbers but must be balanced for better load distribution.
- b. The location of outlets shown on diagrammatic wiring plans shall be considered as approximate and it shall be incumbent upon the Contractor, before installation of outlets boxes, to study all pertinent drawings and obtain precise information from the architectural schedules, scale drawings, large scale and full size details of finished rooms and the approved shop drawings of other trades or from the Architects. In centering the outlets, due allowance shall be made for window and door trims, variations in thickness of pouring, plastering, etc., as erected, regardless of conditions which may be otherwise shown on small scale drawings. Outlets incorrectly located shall be properly relocated at the contractor's expense. Local switches shown near the doors shall be verified with the Architect's drawings before installation.

24. SERVICES

- a. Power supply coming from the Utility (BATELEC-II) shall be three phase, three-wire plus ground, **230 Volts, 60Hz**.
- b. Stand by diesel generator 150kVA and 38kVA, 3-phase w/ ground, 60 Hz, 240 Volts, silent type.

25. POWER SYSTEM

- a. Unless otherwise indicated on drawings, all motors shall be furnished, set up and secured in place by others trades.
- b. Unless otherwise indicated on drawings, the Electrical Contractor shall do all wiring for power, including the connection up to the motors and such as line switches, motor starters, speed regulators, circuit breakers, compensators or any other appliances that may be furnished with the motors. He shall also have there the presence of his representative when the motors are first started by the trade furnishing it in order to determine if correctly done.

26. POWER & LIGHTING DISTRIBUTION SYSTEM

- a. Furnished and install the lighting receptacle and power panels as indicated on plans and panel board schedule.
- b. From the main breaker, install feeders to the various outlying panels, motors or equipment as shown on the plans. Feeders shall be underground in reinforced concrete encasement unless otherwise noted.

27. LIGHTING SYSTEM

- a. The lighting system shall be complete in every aspect, all as indicated on the plans as specified.
- b. All wiring shall be installed in electrical metallic tubing using concrete tight fittings connectors or as indicated in the plans and in general shall be concealed in the structure.
- c. Mounting heights of devices shall be as detailed on the plans or as follows:
 - Local switches - 1370mm from center of device to finished floor line.
 - Receptacles - 300mm above floor or 150mm above counters, or as shown on in architectural details.

28. EQUIPMENT GROUNDING SYSTEM

- a. The contractor shall furnish and install complete grounding system as shown in the drawings.
- b. All metallic conduits, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of each system shall be grounded by connecting to the ground grid.
- c. Contractor to test the grounding system to assure continuity and resistance to ground is not excessive. Submit written results of each test to the Engineer for approval.

29. WORK EXCLUDED

- a. Pull-out and relocation of distribution transformers including their pull-line hardware.
- b. Primary-metering of feeder supply to distribution transformers.
- c. Termination of service entrance cables.
- d. Power-up commissioning of relocated distribution transformers for the whole electrical system.

Conformity with Schedule of Requirements & Technical Specifications

Item No.	Section VII-Technical Specifications	% of Total	Unit	Quantity
I	MAIN DISCONNECT PANEL BOARD(ACB)	0.0291	L.S.	1.00
II	CUSTOM BUILT MAIN DISTRIBUTION PANEL BOARD(MDPP)	0.0618	L.S.	1.00
III	CUSTOM BUILT MAIN TRANSFER SWITCH(MTS-1 & MTS-2)	0.1025	L.S.	1.00
IV	CABLES & WIRES	0.7757	L.S.	1.00
V	µPVC CONDUITS & FITTINGS	0.0231	L.S.	1.00
VI	AIRCONDITIONING	0.0050	L.S.	1.00
VII	SMALL ITEMS	0.0027	L.S.	1.00

GENERAL

The work under this Section shall be subject to the requirements of the General Conditions, which shall be included as part of this Specifications and which shall apply to all work to be performed under the Electrical Section. The contract documents, instructions, drawings and specifications shall be considered as one. Whatever is called for by any of the documents shall be binding as if called for by all.

1. DESCRIPTION

The work to be done under this Section of the Specifications consists of the fabrication, furnishing, delivery and installation, complete in all detail of the Electrical Work at the subject premises and all work materials incidental to the proper completion of the projects, except those portion of the work which are expressly stated to be done by others. All work shall be in accordance with the governing Codes and Regulations and with the Specifications, except where some shall conflict with codes, etc., which the later shall then govern. The requirements in regard to materials and workmanship specify the required standard for the furnishing of all labor, materials and appliances necessary for the complete installation of the work specified herein and indicated on the drawings. These specifications are intended to provide a broad outline of the required equipment, but are not intended to include all details of the design and construction.

2. WORK INCLUDED

Under this Section and together with the specifications, provide all materials and equipment and perform all the work necessary for the complete execution of the electrical systems shown on the electrical drawings with reference to the general construction drawings as herein specified, or both except as otherwise excluding the generality of the foregoing, shall include but not limited to the following principal items of work:

- a. Supply and installation of service entrance feeder/cables to power powerhouse. Terminate at incoming terminal lugs of Main Air Circuit Disconnect panel board.

- b. Remove from existing location and re-installation of one (1) unit of 150kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-1.
- c. Remove from existing location and re-installation of one (1) unit of 38kVA diesel engine-driven generator set, with skid-mounted day tank, engine-mounted radiator and exhaust system to the new powerhouse. Terminate supply cables to ATS-2.
- d. Conduiting and wiring works for feeder supplies including grounding system.
- e. Supply, installation and wiring of complete electrical equipment/panel boards including that of powerhouse.
- f. Painting of all exposed electrical conduits, enclosures and equipment.
- g. Termination of all electrical system to the panel boards.
- h. Conduct resistance testing for the grounding system.
- i. Conduct megger testing for all cable/wires of main entrance and feeder line.
- j. Complete testing and commissioning of all electrical lighting, power.
- k. Application, payment of fees and securing Electrical Permit and Certificate of Electrical Final Inspection / Completion from local agency concerned (Municipal Engineer's Office).
- l. Application and securing the approval for the electrical power supply service connections including the preparation of the necessary plans, forms and related documents, payments of fees and charges and coordination with the involved parties and other authorities or persons involved in the procedures.
- m. If anything has been omitted for any items of work or materials usually furnished, which are necessary for the completion of the entire work as outlined herein before, then such items must be and hereby included in this section of work.

3. CODES, INSPECTIONS, PERMITS & FEES

- a. The work under this Contract is to install according to the requirements of the latest Philippine Electrical Code, the rules and regulations of Batangas City and the requirements of the Owner. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the national and local ordinances or laws governing the installation of the electrical work and all such laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.
- b. All permits and electrical fees required for this work shall be obtained by and at the expense of the Contractor. The Contractor shall furnish the Architect, Engineers and the Owner the final certificate of inspection and approval from the proper government authorities after the completion of the work. The contractor shall prepare all "As-Built" electrical plans and all paperwork required by the approving authorities.

4. RECORD DRAWINGS

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and all legal expenses or otherwise, which may be incurred by the Owner, the Architect of the Engineer in the defense of any claims, actions, or suit.

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- b. **Ground Test:** The entire installation shall be free from improper ground and from short circuits. This shall be tested and recorded in the presence Owner's representative, Project Manager and/or the Engineer. Each panel shall tested with main connected to the feeder. Each individual power feeder shall be tested with the power equipment connected for proper and intended operation. In no case shall the insulation resistance be less than that allowed by the regulations for electrical equipment and buildings. Failures shall be corrected in a manner satisfactory to the Engineers.
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- d. **Cutting and Fittings:** The Contractor shall do all cutting and fittings required for the installation of the work to make and join the several parts and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer.
- e. **Protection:** The Contractor shall effectually protect his own work from damage during and as may be necessary after installation and he shall likewise protect adjoining work of other trades from damage resulting from the installation of electrical work.

14. CONTRACT DRAWINGS

The location of various items indicated on the drawings are presumed to be approximately correct, but it is to be understood however, that the small scale drawings are necessarily diagrammatic and that such locations as shown, are subject to slight revision as the work is installed, which may be necessary to accommodate local construction conditions. No major change shall be made, however, without the approval in writing to the Engineers. The contractor shall examine and study the architectural scale drawings, large scale and full size details, the approved shop drawings of other trades and he shall frequently consult with the General Contractor to ascertain any changes that may have been made and he shall be guided accordingly before establishing the precise locations of conduit runs, panels, pull and junction boxes, and outlets for all electrical system.

15. WIRES & CABLES

- a. All wires shall be copper, soft-drawn and annealed, shall be of 99% conductivity, shall be smooth and true and of a cylindrical form and shall be within 1% of the actual size called for.
- b. All wires and cables shall comply with the requirements of the **Underwriter's Laboratories**, the **A.S.T.M.** and the **I.P.C.E.A.** as they apply in the particular.
- c. Wires and cables for lightning, power and auxiliary systems shall be nylon jacketed, plastic insulated for 600 volts working pressure, type **THNN/THWN** unless otherwise noted.
- d. For lighting system, no Wire smaller than **2.0 mm². (AWG No. 14 stranded)** shall be used and must be color-coded.
- e. For power system, no Wire smaller than **3.5 mm². (AWG No. 12 stranded)** shall be used and must be color-coded.
- f. All Wires and cable shall be color-coded and as manufactured by **Phelps Dodge** or its equivalent in quality. Color-coding or wires are as follows:

Line **A** - Red
Line **B** - Yellow

Ground - White
Control wire #01 - Yellow

16. CONDUITS

- a. Metallic conduits for interior and exterior systems shall be a standard weight, mild steel, hot-dipped galvanized with an interior. PVC non-metallic conduits. Embedded in concrete slabs, concrete walls and partitions shall be high-impact type by **Emerald** or its approved equivalent.
- b. No conduits shall be used in any system smaller than 15mm dia. electric trade size, nor shall have more than four 90-degree bends in any one run and when necessary, pull boxes shall be provided ' as directed. Location and sizes of pull boxes shall be cleared to the Engineer prior to fabrication and installation.
- c. No wires shall be pulled into any conduit unless the conduit system is complete in all details. In the case of concealed work, no wires shall be pulled until all rough plastering or masonry has been completed and in the case or exposed work, until the conduit has been completed in every detail.
- d. The ends of all conduits shall be tightly plugged to exclude plaster, dust and moisture while the building is in the process of construction.
- e. All pipes and fittings on exposed work shall be secured by means of **Kindorff channels and clamps**. Conduit lay outing, in all cases shall run perfectly straight and rule, satisfactory to the architect and to the engineer.

17. OUTLETS, BOXES & FITTINGS

- a. All outlets of whatever kind, for all systems, shall be provided with suitable fittings, which shall be either a box or other devices especially designed to receive the type of fittings to be mounted thereon.
- b. The Contractor shall consult with the Architect and the Engineer as to the nature of the various fittings to be used before installing the outlet fittings and shall conform strictly in the use of such fittings, to the nature of the appliance to be mounted on them, so that the work, when finished will be a completed design.
- c. In the case of fixtures, the outlet fittings shall be provided with suitable fixture supports of a size and kind required by the fixture to be hung. Fixture studs in general shall be 9.375mm dia.

18. JUNCTION & PULL BOXES

- a. Junction and pull boxes, per code gage steel, shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finished places shall be located and installed with the permission of and to the satisfaction of the Architect and Engineer. Sizes shall be subject to the approval or the engineer.
- b. Junction and pull boxes must be painted for environmental protection.

19. WALL SWITCHES, OUTLETS

- a. Wall switches shall be rated at 15 amperes, 300volts, one-way, two-pole, three-way or four-way as required. Certain combinations shall be furnished with pilot lights as required and where indicated on the drawings. Switches shall be of the quick connect terminal operated.

The type of switch shall be tumbler operation and the color plating and appearance of wall plates shall be selected by the Architect and appropriate samples shall be submitted prior to the purchase of wall switches and wall plates. Switches shall be manufactured by **National, Toshiba or Anam** or its approved equivalent.

- b. Receptacle outlets shall be for flush mounting, duplex rate at 10 ampere, 250 volts, grounding type 3-wire. Type and color of receptacle outlet plates shall be selected by the Architect, and appropriate samples of outlets and plates shall be submitted prior to purchase of devices. Receptacles shall be as manufactured by **National, Toshiba or Anam** or its approved.

20. PLATES

All switches and receptacle plates shall be as approved by the Architect and Engineers, prior to procurement.

21. PANELS & CABINETS

- a. Standard panels and cabinets as far as possible shall be used and assembled at jobsite. All panels shall be of dead front construction furnished with trims for flush or surface mounting, as required. Cabinets shall be of code gauge steel with gutters at least 150mm and wider, if necessary. The trim for all panels shall be finished in light gray enamel (ANSI #61) over a rust inhibitor.
- b. Panels and cabinets shall be fabricated by a reputable fabricator. Fabricator's shop drawings in triplicate copies shall be submitted for approval before fabricating the panels. Only one brand of circuit breaker and fabricator shall be used for the entire requirements of the project. Combinations of brand will be rejected.
- c. Lighting panels shall be required with two-pole circuit breaker in the branch circuits and in the main unless noted otherwise on plans. As indicated on plans, the panels shall be assembled in two or more sections where over one pole circuits. Ground bus terminals shall be standard features to the panel.

22. INDIVIDUAL BREAKERS & SWITCHES

- a. Provide individual circuit breakers and disconnect switches when indicated on the plans. Voltage rating shall be suitable in each case of service application.
- b. Enclosure for indoor application shall be NEMA-1, and for outdoor application shall be stainless steel, corrosion-proof NEMA-4X unless otherwise indicated in the plans.
- c. All protective devices shall meet NEMA and Underwriters Laboratories, Inc., specifications.
- d. Circuit breakers shall consist of a quick-make, quick-break type entirely tip free operating mechanism contacts with arc interrupter and thermal magnetic trip used for each pole and enclosed in a molded phenol case. The thermal magnetic trip unit shall provide time delay overload protection and instantaneous short circuit protection and shall operate internal common trip bar which will open all poles in case of overload or short circuit in any one-pole. Circuit breaker shall be trip indicating with the tripped position of breaker midway between 'ON' and 'OFF' positions.
- e. Only one single brand of circuit breaker shall be used on the entire project requirement. The acceptable brands are **G.E, Square-D, and Fuji Electric** or its approved equivalent. Submit brochures for approval.

- f. Minimum interrupting capacities of each circuit breaker are indicated on the load schedule. Application of circuit breakers shall be approved for the intended load per panel board schedule.
- g. Safety and disconnect switches shall be non-fusible and of sizes indicated on plans and shall be normal duty type, except as noted otherwise. Enclosures shall be NEMA-1 for indoor use and stainless steel, corrosion-proof NEMA-4X for outdoor use.

23. LOCATION OF WIRING & OUTLETS

- a. The Contractor shall coordinate his work with all trades involved so that exact locations may be obtained for all outlets, apparatus, appliances and equipment. The circuit numbers indicated as numbers 1, 2, 3 may not correspond to actual panel circuit connection numbers but must be balanced for better load distribution.
- b. The location of outlets shown on diagrammatic wiring plans shall be considered as approximate and it shall be incumbent upon the Contractor, before installation of outlets boxes, to study all pertinent drawings and obtain precise information from the architectural schedules, scale drawings, large scale and full size details of finished rooms and the approved shop drawings of other trades or from the Architects. In centering the outlets, due allowance shall be made for window and door trims, variations in thickness of pouring, plastering, etc., as erected, regardless of conditions which may be otherwise shown on small scale drawings. Outlets incorrectly located shall be properly relocated at the contractor's expense. Local switches shown near the doors shall be verified with the Architect's drawings before installation.

24. SERVICES

- a. Power supply coming from the Utility (BATELEC-II) shall be three phase, three-wire plus ground, **230 Volts, 60Hz.**
- b. Stand by diesel generator 150kVA and 38kVA, 3-phase w/ ground, 60 Hz, 240 Volts, silent type.

25. POWER SYSTEM

- a. Unless otherwise indicated on drawings, all motors shall be furnished, set up and secured in place by others trades.
- b. Unless otherwise indicated on drawings, the Electrical Contractor shall do all wiring for power, including the connection up to the motors and such as line switches, motor starters, speed regulators, circuit breakers, compensators or any other appliances that may be furnished with the motors. He shall also have there the presence of his representative when the motors are first started by the trade furnishing it in order to determine if correctly done.

26. POWER & LIGHTING DISTRIBUTION SYSTEM

- a. Furnish and install the lighting receptacle and power panels as indicated on plans and panel board schedule.
- b. From the main breaker, install feeders to the various outlying panels, motors or equipment as shown on the plans. Feeders shall underground in reinforced concrete encasement unless otherwise noted.

27. LIGHTING SYSTEM

- a. The lighting system shall be complete in every aspect, all as indicated on the plans as specified.
- b. All wiring shall be installed in electrical metallic tubing using concrete tight fittings connectors or as indicated in the plans and in general shall be concealed in the structure.
- c. Mounting heights of devices shall be as detailed on the plans or as follows:

Local switches - 1370mm from center of device to finished floor line.

Receptacles - 300mm above floor or 150mm above counters, or as shown on in architectural details.

28. EQUIPMENT GROUNDING SYSTEM

- a. The contractor shall furnish and install complete grounding system as shown in the drawings.
- b. All metallic conduits, cabinets and equipment shall be properly grounded and bonded by means of copper straps. The conduits of each system shall be grounded by connecting to the ground grid.
- c. Contractor to test the grounding system to assure continuity and resistance to ground is not excessive. Submit written results of each test to the Engineer for approval.

29. WORK EXCLUDED

- a. Pull-out and relocation of distribution transformers including their pull-line hardware.
- b. Primary-metering of feeder supply to distribution transformers.
- c. Termination of service entrance cables.
- d. Power-up commissioning of relocated distribution transformers for the whole electrical system.

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

If a sole proprietorship: I am the sole proprietor of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. **Select one, delete the other:**

If a sole proprietorship: As the owner and sole proprietor of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for *[Name of the Project]* of the *[Name of the Procuring Entity]*;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the *[Name of Bidder]* in the bidding as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

If a sole proprietorship: I am not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards;
8. *[Name of Bidder]* did not give or pay, directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity; and
9. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of __, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

[JURAT]

REQUEST FOR CLARIFICATION

Date of Letter

DR. JESSIE A. MONTALBO
BAC Chairman
Batangas State University
Rizal Avenue, Batangas City
Telephone No.: (043) 300-2202 local 102

Dear Sir:

In relation to the Section ____ of Page ____ of the Bidding Documents for (Name of the Project),
to wit:

“ (Quote unclear provision) ”

We would appreciate it if you could provide further explanation or clarification on the above.
Thank you very much.

Very truly yours,

Name of Representative of the Bidder
Name of the Bidder

