PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

Sixth Edition July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the "Works") through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv)the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the "name of the Procuring Entity" and "address for bid submission," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Republic of the Philippines

Department of Education

REGION IV-A CALABARZON CITY SCHOOLS DIVISION OF BIÑAN CITY

Invitation to Bid for CY 2024 Upgrading of Electrical System (Binan ES)

- 1. The Department of Education (DepEd) City Schools Division of Biñan City, through the Fiscal Year (FY) 2024 General Appropriations Act (GAA) intends to apply the sum of Sixteen Million Seven Hundred Eighty-Seven Thousand Three Hundred Forty-Six and Eighty-Nine Hundredths pesos only (P16,787,346.89) being the Approved Budget for the Contract (ABC) to payments under the contract for CY 2024 Upgrading of Electrical System (Binan ES) with Project Identification Number R4A-BNN-2023-04. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The *Department of Education (DepEd) City Schools Division of Biñan City* now invites bids for the above Procurement Project. Completion of the Works is required *two hundred forty (240) calendar days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from *Department of Education* (*DepEd*) *City Schools Division of Biñan City* and inspect the Bidding Documents at the address given below from 8:00 a.m. to 5:00 a.m..
- 5. A complete set of Bidding Documents may be acquired by interested bidders on **December 27**, 2023 to January 16, 2024 from given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Twenty-five thousand pesos only** (P25,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
- 6. The *Department of Education (DepEd) City Schools Division of Biñan City* will hold a Pre-Bid Conference¹ on *January 4, 2024* at *DepEd City Schools Division of*

May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

Biñan City, SDO Training Hall, P. Burgos St. Brgy. Sto.Domingo, Biñan City, Laguna which shall be open to prospective bidders.

- 7. Bids must be duly received by the BAC Secretariat through **manual submission** at the office address as indicated below on or before *January 16*, *2024*, *8:59 a.m.*. Late bids shall not be accepted.
- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
- 9. Bid opening shall be on *January 16, 2024, 9:00 a.m.* at the given address below *DepEd City Schools Division of Biñan City, SDO Training Hall, P. Burgos St. Brgy. Sto. <i>Domingo, Biñan City, Laguna.* Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The procurement project is **short of award**. The awarding of the procurement contract will be made once the corresponding Sub-ARO for the project is released.
- 11. The *Department of Education (DepEd) City Schools Division of Biñan City* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 12. For further information, please refer to:

SYLVIA S. TANAEL

Head, BAC Secretariat

Bids and Awards Committee (BAC)

DepEd – City Schools Division of Biñan City P. Burgos St., Brgy. Sto. Domingo

Biñan City, Laguna

bac.sdobinancity@deped.gov.ph

Tel. No. (049) 547-0105

https://www.depedbinan.com/

13. You may visit the following websites:

For downloading of Bidding Documents: https://www.depedbinan.com/

December 22, 2023

(Sgd.) **EDENIA O. LIBRANDA**

BAC Chairman
Chief Education Supervisor
Officer-in-Charge
Office of the Assistant Schools Division Superintendent

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, *Department of Education (DepEd) - City Schools Division of Biñan City* invites Bids for the *CY 2024 Upgrading of Electrical System (Binan ES)*, with Project Identification Number *R4A-BNN-2023-04*.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for Fiscal Year (FY) 2024 General Appropriations Act (GAA) in the amount of Sixteen Million Seven Hundred Eighty-Seven Thousand Three Hundred Forty-Six and Eighty-Nine Hundredths pesos only (P16,787,346.89).
- 2.2. The source of funding is:

[If an early procurement activity, select one and delete others:]

a. NGA, the National Expenditure Program.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address *DepEd – City Schools Division of Biñan City, SDO Training Hall, P. Burgos St. Brgy. Sto.Domingo, Biñan City, Laguna* as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid special PCAB License in case of Joint Ventures, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. 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.
- 14.2. Payment of the contract price shall be made in:

a. Philippine Pesos

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until *May* 15, 2024. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit 1 (one) original and 2 (two) copies of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

ITB Clause							
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:						
	Repair, Rehabilitation, Restoration, and/or Construction of School Buildings						
7.1	The Procuring Entity has p		8				
10.2	Subcontracting is not all		11				
10.3	The winning bidder with the	he LCRB shall secure the f	ollowing permits:				
	a. Building Permit (wit Proceed)*	hin 15 days after the issuar	nce of the Notice to				
	b. Occupancy Permit (1	within 15 days after the con	mpletion of the Project)*				
	*The National Building Co						
10.4	The key personnel must i below:	meet the required minimum	m years of experience set				
	Key Personnel	General Experience	Relevant Experience				
	General Foreman	1 year					
	Helper	1 year					
	Registered Electrical Engineer	2 years					
	Electrician 1 year 1 year						
	Registered Master Electrician	2 years	2 years				
	Professional Master Electrician	2 years	2 years				
10.5	The minimum major equip	oment requirements are the	following:				
	<u>Equipment</u>	Capacity	Number of Units				
	Hand Tools	Strong Hand Tools	20 different tools				
	One-Bagger Mixer	1					
	Welding Machine 200-400 amp 1						
	Scaffolding over 240 kg per sq 1 lot						
	Boom Truck 20,000 lbs 1						
	Ladder 30 ft 2						
12							
12	No further instruction.						

15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than P335,746.94, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;						
	b. The amount of not less than <u>P839,367.34</u> , if bid security is in Surety Bond.						
16	Each Bidder shall submit <i>I</i> (<i>one</i>) <i>original</i> and <i>2</i> (<i>two</i>) <i>copies</i> of the first and second components of its Bid.						
19.2	Partial bids are not allowed.						
20	Site Inspection Certificate (duly signed by the School Head or its authorized representative) shall be included in the bidding docs						
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as 1. Construction Schedule and S-Curve 2. Manpower Schedule; 3. Construction Methods; 4. Equipment Utilization Schedule; 5. Construction Safety and Health Program approved by the DOLE; 6. PERT/CPM or other acceptable tools of project scheduling; 7. Contractor's All Risk Insurance (CARI) Policy; and 8. Bio-Data of all construction workers to be assigned in the Project						

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall 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. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to 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.
 - 3.2 If possession of a portion is not given by the above date, 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 may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, 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.

5. Performance Security

- 5.1. 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 successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 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.

6. 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.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, 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.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. 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.

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

9. Termination for Other Causes

Contract termination shall be initiated 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 corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, 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.

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. 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.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

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**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests 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.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC.**
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	Completion of Works is within ninety (90) calendar days upon receipt of the Notice to Proceed.
4.1	The Procuring Entity shall give possession of all parts of the site to the contractor after submission of the notarized contract by the contractor to the Procuring Entity and on or before date of receipt of the NTP by the contractor.
6	The site investigation reports are: <i>None</i>
7.2	The warranty against Structural Defects/Failures, except that occasioned- on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity: One (1) year
10	No further instructions.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>seven</i> (7) <i>calendar</i> days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is [<i>insert amount</i>].
13	The amount of the advance payment shall not exceed 15% of the total contract price and schedule of payment.
14	[If allowed by the Procuring Entity, state:] Materials and equipment delivered on the site but not completely put in place shall be included for payment. Not Applicable
15.1	The date by which operating and maintenance manuals are required is <i>five</i> (5) days upon completion. The date by which "as built" drawings are required is <i>five</i> (5) days upon completion and upon request of final billing.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>two percent</i> (2%) of contract price.

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.

Detailed Unit Price Analysis (Page 1 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: A.1

Description: Temporary Facilities

Quantity: 8.00 Output: 1.00

				Unit:	Month
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Sub-Total (Equipment)			Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Rental of Office/Storage House (including light and water)	Month	8.00		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (Ocm)			% of D.	
F.	Contractor's Profit			% of D.	-
G	Value Added Tax (VAT)		·	% of (D+E+F)	-
H.	H. Adjusted Total Cost (D+E+F+G) Php				-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 2 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: B.1

Description: Fire Safety Inspection Certificate (FSIC)

Quantity: 1.00 Output: 1.00 Unit: lot

				Unit:	lot
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Skilled Laborer	1.00	8.00	Nate	-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Plans & Permits for Fire Safety Inspection Certificate	lot	1		0.00
	Sub-Total (Materials)			Php	
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (Ocm)			% of D.	
F.	Contractor's Profit			% of D.	
G.	Value Added Tax (VAT)			% of (D+E+F)	-
Н.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 3 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: SPL.1

Description: Project Billboard

Quantity: 1.00 Output: 1.00 Unit: Each

				Unit:	Each
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
۸.		Person	Hours	Rate	Amount
	Skilled Laborer	1	4.00		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
<u>.</u>		Units	Hours	Rate	Amount
	Electric Hand Drill	1	8.00		-
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
_	. , ,		•	Cost	
	8' x 8' Tarpaulin, 2 sets	sq ft	64.00		-
	Coco Lumber	bd.ft	384.00		-
l	Plywood, Ordinary 3/4" x 4' x 8'	pc	2.00		-
	CWN, Assorted	kg	1.00		-
ᆫ	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead,Contingencies and Miscellaneous (Ocm)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	G. Value Added Tax (VAT) % of (D+E+F)				
Н.	H. Adjusted Total Cost (D+E+F+G) Php				
I.	-				

Detailed Unit Price Analysis (Page 4 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: SPL2

Description: Construction Safety and Health

Quantity: 6.00 Output: 1.00 Unit: Mont

				Output:	1.00	
				Unit:	Month	
A.	Designation of Personnel		No. of	Hourly	Amount	
			Hours	Rate	Amount	
	Safety Officer	1	1440.00		-	
	First Aider	1	1440.00		-	
	Sub-Total (Labor)			Php	-	
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount	
ъ.	Hame / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Sub-Total (Equipment)			Php	-	
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount	
С.	Name / Specification (Materials)	Unit	Quantity	Cost	Amount	
	First Aid Kit	Ls	1		0	.00
	Personal Protective equipment (PPE)					
	Safety Helmet	man - days	10		0	.00
	Safety Vest	man - days	10		0	.00
	Safety Shoes	man - days	10		0	.00
	Safety Gloves	man - days	20		0	.00
	Signages and Barricades					
	PPE Signage (4' x 8')	set	1		0	.00
	Safety First (4' x 4')	set	1		0	.00
	Warning Signs (2' x 3')	set	1		0	.00
	Caution Tape, 100 ft	rol	1		0	.00
	Sub-Total (Materials) Ph					
D.	Direct Cost (A+B+C)			Php	-	
E.	Overhead, Contingencies and Miscellaneous (Ocm) % of D.					
F.	Contractor's Profit			% of D.	-	
G.	G. Value Added Tax (VAT) % of (I				-	
H.						
I.	Adjusted Unit Cost (H/Quantity)	-				

Detailed Unit Price Analysis (Page 5 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: B.2

Description: Security/ Bill Deposit

Quantity: 1.00
Output: 1.00

				Unit:	Ls		
A.	Designation of Personnel	No. of	No. of	Hourly	Amount		
	_	Person	Hours	Rate			
	Sub-Total (Labor)			Php	-		
_	Name / Carracity / Farriage and	No. of	No. of	Hourly	A4		
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount		
	Sub-Total (Equipment)			Php	-		
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount		
<u> </u>	mano / opourioudon (matorialo)	Oiiit	J.I.C	5		Cost	7 mount
	Security/ Bill Deposit	Ls	1.00		-		
	Sub-Total (Materials)			Php	-		
D.	Direct Cost (A+B+C)			Php	-		
E.	Overhead, Contingencies and Miscellaneous (OCM)	·	·	% of D.	-		
F.	Contractor's Profit			% of D.	-		
G.	G. Value Added Tax (VAT) % of (D+E+F		% of (D+E+F)	-			
Н.	Adjusted Total Cost (D+E+F+G)			Php	-		
I.	Adjusted Unit Cost (H/Quantity)			Php	-		

Detailed Unit Price Analysis (Page 6 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: B.3

Description: Equipment Testing and Commissioning

Output 1.00

				Unit:	LS
A.	Designation of Personnel	No. of	No. of	Hourly	Amount
Α.	Designation of Personna	Person	Hours	Rate	Amount
	Construction Foreman	1	32.00		-
	Skilled Laborer	1	32.00		-
	Unskilled Laborer	1	32.00		-
	Sub-Total (Labor)			Php	
		No. of	No. of	Hourly	
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
	mano, opounouton (mutorialo)		- Cuminy	Cost	741104111
	Equipment Testing and Commissioning	lot	1.00		-
	Grounding Test				
	Voltage Test				
	Insulation Test				
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)		•	% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 7 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: C.1

Description: Mobilization and Demobilization

Quantity: 1.00 Output: 1.00 Unit: Is

				Ouput:		
A.	Designation of Personnel	No. of Person	No. of Hours	Unit: Hourly Rate	Amount	
	Unskilled Laborer	1	24.00	ruco		-
	Sub-Total (Labor)		<u> </u>	Php		_
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Self Loading Truck and Accessories	1	24.00			0.00
	Sub-Total (Equipment)			Php		-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Sub-Total (Materials)			Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (Ocm)			% of D.		
F.	Contractor's Profit			% of D.		
G	Value Added Tax (VAT)	·		% of (D+E+F)		-
Н.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 8 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item:

Description: Clearing of Right of Way

				Unit:	Ls
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Unskilled Laborer	1	16.00		-
	Sub-Total (Labor)	•		Php	-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Sub-Total (Equipment)	•		Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Clearing of Right of Way	Ls	1.00		-
	Sub-Total (Materials)	•		Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit	·		% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 9 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (a)

Description: Clearing and Grubbing

> Quantity: 58.03 Output per hour: 500.00

				Unit:	sq.m	
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman Unskilled Laborer	1 2	0.12 0.12			-
	Sub-Total (Labor)			Php		-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Backhoe (0.80 cu.m.) Dump Truck (12 cu.yd.)	1	0.12 0.12			0.00
	Sub-Total (Equipment)	1		Php		_
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Sub-Total (Materials)			Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
Н.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 10 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (b)

Description: Structural Excavation

Quantity: 112.67
Output per hour: 20.00
Unit: cum

				Unit:	cu m	
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount	
м.	Designation of Personner	Person	Hours	Rate	Amount	
	Construction Foreman	1	5.63			-
	Unskilled Laborer	1	5.63			-
	Sub-Total (Labor)	1		Php		-
В.	Name / Canacity / Equipment	No. of	No. of	Hourly	Amount	
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Backhoe (0.80 cu.m.)	1	5.63			0.00
	Dump Truck (12 cu.yd.)	1	5.63			0.00
	Sub-Total (Equipment)			Php		-
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount	
С.	wante / Specification (waterials)	Oiiit	Quality	Cost	Alliount	
	Sub-Total (Materials)	•		Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
Н.	Adjusted Total Cost (D+E+f+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 11 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (d)

Description: Gravel Bedding

Quantity: 0.58
Output per hour: 1.20

				Unit:	cu m	
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	0.48			-
	Unskilled Laborer	2	0.48			-
	Sub-Total (Labor)			Php		-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount	
ь.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Plate Compactor (5hp)	1	0.48			0.00
	Sub-Total (Equipment)			Php		-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Gravel Bedding G-1	cu.m	0.61			-
	(with 5% Shrinkage Factor)					
	Sub-Total (Materials)			Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		_
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
Н.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 12 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (e)

Description: Embankment

Quantity: 81.67 Output per hour: 9.84 Unit: cu m

				UIIIC	cum	
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman Unskilled Laborer	1	8.30 8.30			-
	Sub-Total (Labor)	l		Php		-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Plate Compactor (5hp)	1	8.30			0.00
	Backhoe (0.80 cu.m.)	1	8.30			0.00
	Sub-Total (Equipment)			Php		-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Embankment Material (with 25% shinkage factor)	cu.m	102.09			-
	Sub-Total (Materials)	•		Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
Н.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 13 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 13 (a)

Description: Masonry Painting

Quantity: 12.16
Output per hour: 2.10
Unit: sa.m

				Unit:	sq.m
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	5.79		-
	Unskilled Laborer	1	5.79		-
	Sub-Total (Labor)			Php	_
_		No. of	No. of	Hourly	
В.	Name / Capacity (E quipment)	Units	Hours	Rate	Amount
	Sub-Total (E quipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Neutralizer	gal	0.04		-
	Latex, Flat	gal	0.97		-
	Masonry Putty	gal	0.61		-
	Latex, Semi Gloss	gal	0.97		-
	Acri Color	qrt	0.06		-
	Sub-Total (Materials)			Php	_
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
н.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 14 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: Upgrading of Electrical System (Overhead System)

Item: 13 (c)

Description: Metal Painting

Quantity: 34.00
Output per hour: 2.00
Unit: sa m

				Unit:	sq.m
A.	Designation of Personnel	No. of	No. of	Hourly	Amount
	2	Person	Hours	Rate	
	Construction Foreman	1	17.00		-
	Skilled Laborer	2	17.00		-
	Unskilled Laborer	1	17.00		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
ъ.	wante / capacity (Equipment)	Units	Hours	Rate	Allouik
	Sub-Total (E quipment)			Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
٠.	. , ,	O'IIIC	quantity	Cost	Amount
	Primer, Zinc Chromate	gal	1.36		-
	Enamel Paint	gal	3.40		-
	Paint Thinner	gal	34.00		-
	Paint Primer Solvent	gals	34.00		-
	Paint Metal E poxy	gals	13.60		-
	Steel Brush	pcs	12.00		-
	Paint Brush	pcs	12.00		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
Н.	Adjusted Total Cost (D+E+F+G)			Php	
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 15 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (a)

Description: Clearing and Grubbing

Quantity: 122.40 Output per hour: 500.00

Unit: sq m

				Unit:	sq m
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
A.	Designation of Personner	Person	Hours	Rate	Alliount
	Construction Foreman	1	0.24		-
	Unskilled Laborer	2	0.24		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
ь.	wante / capacity (Equipment)	Units	Hours	Rate	Alliount
	Dump Truck (12 cu.yd.)	2	0.24		-
	Payloader (1.5 cu.m.)	1	0.24		-
	Bulldoz er (155 Hp)	1	0.24		-
	Sub-Total (Equipment)			Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
٠.	Name / Specification (Materials)	Ollic	Quantity	Cost	Alliount
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 16 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (b)

Description: Structural Excavation

Quantity: 73.00 Output per hour: 20.00 Unit: cu m

No. of No. of Hourly Designation of Personnel Amount Person Hours Rate Construction Foreman 1 3.65 Unskilled Laborer 3 3.65 Sub-Total (Labor) Php No. of No. of Hourly В. Name / Capacity (Equipment) Amount Units Hours Rate Backhoe (0.80 cu.m.) 1 3.65 Dump Truck (12 cu.yd.) 3.65 2 Sub-Total (Equipment) Php Unit c. Name / Specification (Materials) Unit Quantity Amount Cost Sub-Total (Materials) Php Direct Cost (A+B+C) Php Overhead, Contingencies and Miscellaneous (OCM) E. % of D. F. Contractor's Profit % of D. G. Value Added Tax (VAT) % of (D+E+F) Adjusted Total Cost (D+E+F+G) Php Adjusted Unit Cost (H/Quantity) Php

Detailed Unit Price Analysis (Page 17 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (c)

Description: Backfilling of Excavated Materials

Quantity: 73.44 Output per hour: 9.84 Unit: cu m

				UIIIC	cum
A.	Designation of Personnel	No. of	No. of	Hourly	Amount
		Person	Hours	Rate	
	Construction Foreman	1	7.46		-
	Unskilled Laborer	3	7.46		-
	Sub Tatal II about			Dh.	
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
		Units	Hours	Rate	
	Plate Compactor (5hp)	1	5.60		-
	Backhoe (0.80 cu.m.)	1	5.60		-
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit	·		% of D.	-
G.	Value Added Tax (VAT)	•	·	% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 18 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 1 (d)

Description: Gravel Bedding

Quantity: 73.44 Output per hour: 1.20

Unit: cu m

				UIIIG	cu iii
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount
	Construction Foreman	1	61.20		-
	Unskilled Laborer	3	61.20		-
	Sub-Total (Labor)			Php	
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Plate Compactor (5hp)	1	30.60		-
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Gravel Bedding G-1	cu.m	77.11		-
	(with 5% Shrinkage Factor)				
	Sub-Total (Materials)	1		Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 19 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 2 (e)

Description: Concreting Works

Quantity: 73.44 Output per hour: 0.270

Unit: cu m

				Unit:	cu m
Α.	Designation of Personnel	No. of	No. of	Hourly	
Α.	Designation of Personner	Person	Hours	Rate	
	Construction Foreman	1	272.00		-
	Skilled Laborer	1	272.00		-
	Unskilled Laborer	4	272.00		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
6	wattle / capacity (Equipment)	Units	Hours	Rate	Amount
	One - bagger Mixer	1	272.00		-
	Sub-Total (Equipment)			Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
٥.	name / Specification (materials)	Ollik	Quality	Cost	Amount
	Portland Cement	bag	660.96		-
	Washed Sand	cu.m.	36.72		-
	Crushed Gravel 3/4"	cu.m.	73.44		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)		·	% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 20 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: 4 (a)

Description: Installation and Removal of Formworks

Quantity: 122.40 Output per hour: 3.24 Unit: sq.m

One s					-4
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
۸.	Dodgitation of Foromici	Person	Hours	Rate	Amount
	Installation				
l	Construction Foreman	1	37.78		-
l	Skilled Laborer	2	37.78		-
l	Unskilled Laborer	4	37.78		-
l					
l	Stripping				
l	Construction Foreman	1	15.49		-
l	Unskilled Laborer	6	15.49		-
l					
	Sub-Total (Labor)			Php	-
В.		No. of	No. of	Hourly	Amount
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount
l					
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
С.	Name / Specification (Materials)	Oiiit	Quality	Cost	Allount
	Coco Lumber	bd.ft	880.06		-
l	Plywood Ordinary, 1/2" x 4' x 8'	pc	42.47		-
l	CWN, Assorted	kg	25.70		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 21 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (k)

Description: Conduit, Boxes and Fitting

Quantity: 1.00 Output: 1.00 Unit: Ls

				Unit:	LS
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
A.	Designation of Personner	Person	Hours	Rate	Amount
	Construction Foreman	1	60.00		-
	Skilled Laborer	2	60.00		-
	Unskilled Laborer	1	60.00		-
	Sub-Total (Labor)			Php	
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	65mmØ PV C Pipe	pc	91.67		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit		·	% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 22 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (r)

Description: Service Entrance Concrete Pedestal

No. of No. of Hourly Rate					Output:	1.00	
Designation of Personnel Person Hours Rate					Unit:	lat	
Person Hours Rate	Δ	Designation of Personnel	No. of	No. of	Hourly	Amount	
Skilled Laborer	_ ~		Person	Hours	Rate	Amount	
Sub-Total (Labor) Php							-
Sub-Total (Labor) Php -							-
B. Name / Capacity (Equipment) No. of Units		Unsk illed Laborer	2	1.00			-
B. Name / Capacity (Equipment) No. of Units		Sub-Total (Labor)			Pho		_
Bectric Grinder			No. of	No. of			
Electric Hand Dril 1	В.	Name / Capacity (Equipment)	Units	Hours		Amount	
Sub-Total (Equipment)		Electric Grinder	1	1.00			0.00
Sub-Total (Equipment)		Electric Hand Drill	1	1.00			0.00
C. Name / Specification (Materials) Unit Quantity Unit Cost Concreting Works Portland Cement Crushed Gravel 3/4" cum 3.00		mini backhoe	1	1.00			0.00
C. Name / Specification (Materials) Unit Quantity Unit Cost Concreting Works Portland Cement Crushed Gravel 3/4" cum 3.00							
Concreting Works		Sub-Total (Equipment)	<u>'</u>		Php		-
Concreting Works	c.	Name / Specification (Materials)	Unit	Quantity		Amount	
Portland Cement Dag 27.00 Crus hed Gravel 3/4" Cum 3.00					Cost		
Crushed Gravel 3/4"		•	m3				
Washed Sand Rebar Works Deformed Round Bars, Grade 40 kg 112.89 -							-
Rebar Works Deformed Round Bars, Grade 40 kg 112.89 -			cu.m				-
Deformed Round Bars, Grade 40 Rg 112.89 Sq.		1	cu.m	3.00			-
G.I. Tie Wire							
Formworks Coco Lumber Plywood Ordinary, 1/2" x 4" x 8" Plywood Ord			kg				-
Coco Lumber			kg	3.95			-
Plywood Ordinary, 1/2" x 4" x 8" pc 12.00 -							
CWN, Assorted kg 6.00 -			bd.ft	1,393.41			-
Scaffolding Rental Scaffolding Set 18.00 Set 1		Plywood Ordinary, 1/2" x 4' x 8'	pc	12.00			-
Scaffolding Set 18.00			kg	6.00			-
Electrical Works Bolt, Machine 5/8" X 10", Hot Dip Galvanized pc 3.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16" pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 9.114" X 2-1/4" X 2-1/4" X 3/16" pc 6.00 - Bolt, Oval Eye 5/8" X 9.114"							
Bolt, Machine 5/8" X 10", Hot Dip Galvanized pc 3.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged pc 6.00 - Bolt, Oval Eye 5/8" X 9", Y 2-1/4" X 2-1/4			set	18.00			-
Bolt, Oval Eye 5/8" X8", Hot Dip Galvanized, Forged Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16" pc 6.00 -							
Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16" pc 6.00 - Sub-Total (Materials) Php - D. Direct Cost (A+B+C) Php - E. Overhead, Contingencies and Mis cellaneous (OCM) % of D. - F. Contractor's Profit % of D. - G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -			pc	3.00			-
Sub-Total (Materials) Php - D. Direct Cost (A+B+C) Php - E. Overhead, Contingencies and Mis cellaneous (OCM) % of D. - F. Contractor's Profit % of D. - G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -			pc	6.00			-
D. Direct Cost (A+B+C) Php - E. Overhead, Contingencies and Miscellaneous (OCM) % of D. - F. Contractor's Profit % of D. - G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -		Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	рс	6.00			-
D. Direct Cost (A+B+C) Php - E. Overhead, Contingencies and Miscellaneous (OCM) % of D. - F. Contractor's Profit % of D. - G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -		Sub-Total (Materials)			Pho		_
F. Contractor's Profit % of D. - G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -	D.						
G. Value Added Tax (VAT) % of (D+E+F) - H. Adjusted Total Cost (D+E+F+G) Php -	E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
H. Adjusted Total Cost (D+E+F+G) Php -	F.	Contractor's Profit			% of D.		-
	G.	Value Added Tax (VAT)			% of (D+E+F)		-
	H.	Adjusted Total Cost (D+E+F+G)			Php		-
I. Adjusted Unit Cost (H/Quantity) Php -	I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 23 of 35)

DETAILED UNIT PRICE ANALYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 2 (b)

Description: Electrical Room - Power House (2x3)

				Output.	1.00
				Unit:	lot
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
м.	Designation of Personner	Person	Hours	Rate	Amount
	Construction Foreman	1	60.00		-
	Skilled Laborer	2	60.00		-
	Unskilled Laborer	4	60.00		-
	Sub-Total (Labor)			Php	•
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
		Units	Hours	Rate	
	mini backhoe	1	60.00		0.00
	Welding Machine	1	60.00		0.00
	concrete mixer	1	60.00		0.00
	Sub-Total (Equipment)			Php	-
C.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount
	Earthworks				
	Clearing and Grubbing	m ²	13.00		-
	Structural Excavation	m ³	8.00		-
	Backfilling and Compacting	m ³	4.00		-
	Gravel Bedding G-1	cu.m	1.05		_
	Concreting Works				
	Column Footing	m ³	2.00		
	Portland Cement	bag	18.00		_
	Crushed Gravel 3/4"	m ³	2.00		_
	Washed Sand	m ³	2.00		_
	Wall Footing	m ³	3.00		
	Portland Cement	bag	27.00		_
	Crushed Gravel 3/4"	m ³	3.00		
	Washed Sand	m ³	3.00		
	Column	m ³	2.00		
	Portland Cement	bag	18.00		
	Crushed Gravel 3/4"	m ³	2.00		_
	Washed Sand	m ³	2.00		•
	wasted baild	m ⁻	2.00	I	-

Beam	m ³	2.00	
Portland Cement	bag	18.00	
Crushed Gravel 3/4"	m ^a	2.00	
Washed Sand	m ³	2.00	
Rebar Works			
Footing	kg	21.00	
Wall Footing	kg	46.00	
Column	kg	156.00	
Beam	kg	111.00	
G.I. Tie Wire	kg	37.00	
Masonry Works			
Masonry Wall	m²	19.00	
CHB 4" thk	pc	240.00	
Portland Cement	bag	25.00	
Washed Sand	cu.m	4.00	
D10mm x 6.00 mts RSB	pc	26.00	
G.I. Tie Wire	kg	2.00	
Plaster Moulding	lm	37.00	
Formworks			
Column	m ²	12.00	
Coco Lumber	bd.ft	190.00	
Plywood Ordinary, 1/4" x 4' x 8'	pc	3.00	
CWN, Assorted	kg	3.00	
Beam	m²	12.00	
Coco Lumber	bd.ft	131.00	
Plywood Ordinary, 1/4" x 4' x 8'	pc	2.00	
CWN. Assorted	kg	2.00	
Doors and Windows	m²	10.00	
Steel Full louver Door 0.90m x 2.10m on 150mm Steel			
Jamb Complete with Accessories (lever type door Knob)	set	1.00	
W - 4, (0.6 x 0.6 m) Steel Awning Window with Grilles			
with 1/4 thk Clear Glass Panes complete with Accessories	set	2.00	
CWN. Assorted	ka	2.00	
Roofing Works	m²	10.00	
G.I. Long-Span Roofing, Corrugated, Pre-Painted,		10.00	
1220mm x 0.5mm BMT	lm	24.00	
G.I. Ridge Roll, Preformed, Pre-Painted, 0.610 m x 2.440 m			
x 0.5 mm BMT	pc	4.00	
G.I. Flashing, Preformed, Pre-Painted, 0.810m x 2.440 m x	DC		
0.5mm BMT	,,,	3.00	
J-Bolt (6 mm d ia.)	pc	528.00	
Blind Rivets	pc	70.00	
Roof Sealant	L	2.00	
Steel Works	m ²	10.00	
L 65 x 65 x 6.0mm	kg	14.00	
L 50 x 50 x 6mm	kg	12.00	
L 100 x 100 x 6.0mm	kg	24.00	
LC 150 x 65 x 20 x 2.0mm	kg	45.00	
L 75 x 75 x 8mm	kg	9.00	
Plain Round Bar 12mmØ x 6m	pc	2.00	
Plain Round Bar 16mmØ x 6m	pc	2.00	
Turn Buckle 12 mmØ	рс	2.00	
Welding Rod	kg	4.00	
Primer, Zin c Chromate	gal	1.00	I

1	Painting Works	m^2	26.45		
l	Masonry Putty	gal	2.00		-
l	Latex, Semi Gloss	gal	4.00		-
l	Acri Color	qrt	2.00		-
l	Electrical Works				
1	Single Pole Wall Switch in One Switch Plate (10 AMP, 230	set	1.00		-
1	1 -18W, 230V, 60Hz AC, Compact Fluorescent Lighting Fix	set	1.00		-
l	3.5 mm² THHN Wire, Stranded	m	40.00		-
l	25mm@ PVC Pipe	pc	2.00		-
l	Octagonal Box, PVC	pc	1.00		-
1	Utility Box, PVC 2"x 4"	pc	1.00		-
	Electrical Tape	рс	4.00		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Pro fit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	H. A djusted Total Cost (D+E+F+G) Php				
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 24 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (a)

Description: Primary Extension

				Quantity: Output: Unit:	0.25	
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Construction Foreman	1	4.00			-
	Skilled Laborer	1	4.00			-
	Unskilled Laborer	1	4.00			-
	Sub-T otal (Labor)			Php		-
В.	Name / Consolt / Francisco	No. of	No. of	Hourly	Amount	
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Boom Truck	1	4.00			0.00
	Bucket Truck	1	4.00			0.00
	Cable Puller/Tensioner	1	4.00			0.00
	Sub-Total (Equipment)			Php		_
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount	
	Insulator, Pin Type, Porcelain, ANSI, Class 56-2	рс	3.00			-
	Pin, Pole Top, Channel, 1" Thread, 20" Long, Hot Dip Galv	pc	3.00			-
	Insulator, Suspension, 6", ANSI, Class 52-1	pc	3.00			-
	Clamp, Dead-end Strain, #2 ACSR	pc	6.00			-
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	9.00			-
	Bolt, Machine 5/8" X 9", Hot Dip Galvanized	pc	6.00			-
	Nut, Look, MF Type, 5/8"	pc	6.00			-
	Rod, Armor, Preformed, #2 ACSR, Single Support	pc	6.00			-
	Shackle, Anchor, 5/8", Forged Steel, Hot Dip Galvanized	pc	6.00			-
	Wire, Tie, insulated, #4 mm	m	90.00			-
	Sub-Total (Materials)					-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
H.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 25 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (b)

Description: Distribution Poles

Quantity: 1.00
Output per hour: 0.25

				Unit:	pc
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
Λ.	Designation of Fersonner	Person	Hours	Rate	Amount
	Construction Foreman	1	4.00		-
	Skilled Laborer	1	4.00		-
	Unskilled Laborer	1	4.00		-
	Sub-Total (Labor)			Php	-
_	Name (Constitute of Section 2)	No. of	No. of	Hourly	
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount
	Hole Digger	1	4.00		0.0
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
٠.	Humer Specification (materials)	Oiiit	quartity	Cost	Amount
	Pole, Concrete, 35', Class 2, 1800 kgs. (Minimum Load Break)	pc	1.00		-
	Sub-Total (Materials)	'		Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
Н.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 26 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (c)

Description: Distribution Transformer, Accessories and Assembly

Quantity: 1.00 Output per hour: 0.13 Unit: unit

				Unit:	unit
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount
		Person	Hours	Rate	milioun
l	Construction Foreman	1	8.00		-
l	Skilled Laborer	1	8.00		-
l	Unskilled Laborer	1	8.00		-
├─	Sub-Total (Labor)	No. of		Php	-
B.	Name / Capacity (Equipment)		No. of	Hourly	Am ount
⊢—	Boom Truck	Units	Hours	Rate	
l		1	8.00		0.00
	Bucket Truck	1	8.00		0.00
	Cable Puller/Tensioner	1	8.00		0.00
	Sub-Total (Equipment)			Php	
				Unit	
C.	Name / Specification (Materials)	Unit	Quantity	Cost	Amount
	Transformer, Pole Type, Conventional, Amorphous, 100	рс	3.00		-
	KVA, Cu-Cu Winding Bracket, Transformer Pole Mounting, 3 Phase, Cluster				
	Type, Hot Dip Galvanized	pc	3.00		-
	Bracket, Mounting for Fuse Cut-Out & Arrester	pc	3.00		_
	Fuse Cut-out & Arrester Combination, 15KV, Class 200	set	3.00		
	Link, Fuse, Universal, Bottom Head, Type K, 30A		3.00		-
	Clamp, Hotline, #2 - #4/0 ACSR	pc	3.00		-
	Connector, Split Bolt	pc	3.00		-
	Bolt, Machine 1/2" X 12", Hot Dip Galvanized	pc			-
	#4. ACSR, AWG, 8/1	pc	3.00		-
		m	30.00		-
	Conductor, Bare, ACSR #4, AWG 6/1	m	30.00		-
	Rod, Tapping, Preformed, #2 ACSR	pc	3.00		-
	Compression, Slee ve Splice, #2 ACSR	pc	12.00		-
	Conductor, 23 kv Insulated, Tree Wire, ACSR/AW-TR/OC- SB #2, AWG 6/1	m	30.00		-
	Nut, Lock, MFType, 5/8"	pc	6.00		-
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	рс	6.00		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Confingencies and Miscellaneous (OCM)			% of D.	-
F. G.	Contractor's Profit			% of D.	-
	Value Added Tax (VAT)			% of (D+E+F)	-
H.	A djusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 27 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (d)

Description: Grounding Assembly

				Unit	set	
Α.	Designation of Personnel	No. of	No. of	H ourly	Amount	
А.	Designation of Personner	Person	H ours	Rate	Amount	
	C onstruction Foreman	1	1.00			-
	Skilled Laborer	1	1.00			-
	Unskilled Laborer	1	1.00			-
	Sub-Total (Labor)			Php		-
	Name I Constitute of animanati	No. of	No. of	H ourly		
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Cable Puller/Tensioner	1	1.00		(0.00
	Sub-Total (Equipment)			Php	,	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount	
	. , , ,		, , , , ,	Cost		
	Plate, Pole Grounding, Butt Type, Hot Dip Galvanized	pc	1.00			-
	Staple, Ground wire, 1/2" X 2"	ft	40.00			-
	Clip, Ground wire	pc	1.00			-
	Wire, Grounding, Aluminum Alloy, #4 AWG	ft	3.00			-
	Wire, Grounding, Galvanized, 3 Strand, 5/16" Dia.	ft	40.00			_
	Connector, Compression, #2 - #4/0 ACSR Run To #6 - #2	pc	1.00			_
	Connector, Split Bolt	рс	1.00		,	-
	Sub-Total (Materials)			Php		-
D.	Direct Cost (A+B+C)			Php		-
Ε.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	C ontra ctor's P rofit			% of D.		-
G.	Value Added Tax (VAT)		·	% of(D+E+F)		-
н.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 28 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (g)

Description: Guy and Anchor Assembly

Quantity: 1.00 Output per hour: 0.50

			(Output per hour.	0.50
				Unit:	set
A.	Designation of Personnel	No. of	No. of	Hourly	Amount
Α.	Designation of Personner	Person	Hours	Rate	Amount
	Construction Foreman	1	2.00		-
	Skilled Laborer	1	2.00		-
	Unskilled Laborer	1	2.00		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount
	Cable Puller/Tensioner	1	2.00		0.00
	Hole Digger	1	2.00		0.00
	Rachet	1	2.00		0.00
	Sub-Total (Equipment)			Php	-
C.	Name of Constitution (Materials)	Unit	0	Unit	
C.	Name / Specification (Materials)	Unit	Quantity	Cost	Amount
	Connector, Compression, YHO 100, Run#8 - #2 - Tap#8- #2	pc	2.00		-
	Clamp, Guy Straight, 3 Bolt, Heavy Duty Steel, Hot Dip Galvanized	рс	2.00		-
	Attachment, Guy, Malleable Type with 11/16" Hole Diameter	рс	1.00		-
	Wire, Guy, Steel, 3/8", 7 Strand, High Strength	ft	50.00		
	Wire, Grounding, Galvanized, 3 Strand, 5/16" Dia.	ft	10.00		_
	Bolt, Machine 5/8" X 9", Hot Dip Galvanized	рс	1.00		
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	1.00		
	Nut, Lock, MF Type, 5/8"	pc .	1.00		_
	Clamp, Anchor Bonding. Single Eye Rod, 5/8"	pc .	1.00		_
	Rod, Anchor, Thimble Eye, 5/8" X 7', Hot Dip				
	Galvanized, Forged	рс	1.00		-
	Anchor, Expanding, 8 - Ways, Hot Dip Galvanized	рс	1.00		-
	Sub-Total (Materials)			Php	-
D.	Direct Cost (A+B+C)			Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.	-
F.	Contractor's Profit			% of D.	-
G.	Value Added Tax (VAT)			% of (D+E+F)	-
H.	Adjusted Total Cost (D+E+F+G)			Php	-
I.	Adjusted Unit Cost (H/Quantity)			Php	-

Detailed Unit Price Analysis (Page 29 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item:

Description: Removal of Old Wires and Electrical Equipment & Devices

Quantity: 1.00
Output: 1.00
Unit: Is

				Unit:	Ls	
A.	Designation of Personnel	No. of Person	No. of Hours	Hourly Rate	Amount	
	Unskilled Laborer	1	18.00			-
	Sub-Total (Labor)			Php		-
В.	Name / Capacity (Equipment)	No. of Units	No. of Hours	Hourly Rate	Amount	
	Electric Grinder	1	18.00			0.00
	Electric Hand Drill	1	18.00			0.00
	Sub-Total (Equipment)			Php		-
c.	Name / Specification (Materials)	Unit	Quantity	Unit Cost	Amount	
	Removal of Old Wires and Electrical Equipment & Devices	Ls	1			-
	Sub-Total (Materials)			Php		-
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Contingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
H.	Adjusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 30 of 35)

DETAILED UNIT PRICE A NA LYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (i)

Description: Wires and Wiring Devices

				Output:		
				Unit:	Ls	
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount	
"	_	Person	Hours	Rate	A.III Gaint	
	Construction Foreman	1	480.00			-
	Skilled Laborer	1	480.00			-
	Unskilled Laborer	1	480.00			-
	0.4 T-4-10 -b			Pho		
	Sub-Total (Labor)	No. of	No. of	Hourly		-
B.	Name / Capacity (Equipment)	Units	Hours	Rate	Am ount	
	Electric Grinder	1	480.00	Rate		0.00
	Electric Grinder		480.00			0.00
	Electric harid Drill	1	480.00			0.00
	 Sub-Total (Equipment)	ı	I	Php		
				Unit		
C.	Name / Specification (Materials)	Unit	Quantity	Cost	Amount	
	Main Service Feeder					
	200 mm ^a THHN/THWN-2 Wire Stranded	m	160.00			-
	50 mm² THHN/THWN-2 Wire Stranded	m	60.00			-
	Distribution Feeder					
	200 mm² THHN/THWN-2 Wire Stranded	m	445.00			-
	50 mm² THHN/THWN-2 Wire Stranded	m	229.00			-
	175 mm ^a THHN/THWN-2 Wire Stranded	m	1,842.00			-
	30 mm² THHN/THWN-2 Wire Stranded	m	623.00			-
	Connecting Feeder					
	250 mm² THHN/THWN-2 Wire Stranded	m	60.00			-
	150 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	100 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	80 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	60 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	50 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	38 mm² THHN/THWN-2 Wire Stranded	m	60.00			_
	22 mm² THHN/THWN-2 Wire Stranded	m	200.00			
	14 mm*THHN/THWN-2 Wire Stranded	m	60.00			
	8.0 mm² THHN/THW N-2 Wire Stranded	m	300.00			_
	Connector, Solderless, Copper, 2 Bolt, AWG #400M CM -	""				-
	AWG#800 (200mm - 300mm)	pc	42.00			-
	Electrical Tape	pc	79.00			-
	Sub-Total (Materials)			Php		-
D. E.	Direct Cost (A+B+C)			Php % of D.		-
_	Overhead, Contingencies and Miscellaneous (OCM)					-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
H.	A djusted Total Cost (D+E+F+G)			Php Php		-
I.	Adjusted Unit Cost (H/Quantity)			Pnp		-

Detailed Unit Price Analysis (Page 31 of 35)

DETAILED UNIT PRICE A NA LYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (j)

Description: Panel Board and Circuit Protections

			Unit:	Ls		
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount	
	, and the second	Person	Hours	Rate		
	Construction Foreman	1	480.00			-
	Skilled Laborer Unskilled Laborer	1	480.00			-
	Onskilled Laborer	1	480.00			-
	Sub-Total (Labor)		<u> </u>	Php		-
В	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount	
В.	Name / Capacity (Equipment)	Units	Hours	Rate	Amount	
	Electric Grinder	1	480.00			0.00
	Electric Hand Drill	1	480.00			0.00
	Sub-Total (Equipment)			Php		_
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount	
٥.		Onk	Quantity	Cost	Alliount	
	Panel Box, Circuit Breaker and Grounding System Main Circuit Protection					
	MCB Flush Mounted, Enclosure, 4-Branches 3R, Powder Coated Finished in dd. Bu sbar and Ground Terminal Block	set	1.00			-
	1200A, 3P Molded Case Circuit Breaker		4.00			
		pc	1.00			-
	700A, 3P Molded Case Circuit Breaker	pc	2.00			-
	500A, 3P Molded Case Circuit Breaker 400A. 3P Molded Case Circuit Breaker	рс	2.00			-
	Service Protection	pc	2.00			-
			40.00			
	NEMA 3R Single Door Endosure	set	16.00			-
	700A, 3P Molded Case Circuit Breaker 500A. 3P Molded Case Circuit Breaker	pc	1.00			-
		pc	1.00			-
	400A, 3P Molded Case Circuit Breaker	pc	2.00			-
	300A, 3P Molded Case Circuit Breaker	pc	1.00			-
	225A, 2P Molded Case Circuit Breaker	pc	1.00			-
	175A, 2P Molded Case Circuit Breaker	pc	1.00			-
	150A, 2P Molded Case Circuit Breaker	pc	1.00			-
	125A, 2P Molded Case Circuit Breaker	pc	2.00			-
	100A, 2P Molded Case Circuit Breaker	pc	1.00			-
	Circuit Breaker, 70A 2P	pc	2.00			-
	Circuit Breaker, 50A 2P	pc	3.00			-
	Grounding System					
	Grounding Rod, 2.4m x 16mm dia.	pc	16.00			-
	Grounding Rod, 3.0m x 25mm dia.	pc	1.00			-
	Clamp, Ground Rod, 5/8"	pc	17.00			-
	Sub-Total (Materials)	Php		-		
D.	Direct Cost (A+B+C)			Php		-
E.	Overhead, Confingencies and Miscellaneous (OCM)			% of D.		-
F.	Contractor's Profit			% of D.		-
G.	Value Added Tax (VAT)			% of (D+E+F)		-
H.	A djusted Total Cost (D+E+F+G)			Php		-
I.	Adjusted Unit Cost (H/Quantity)			Php		-

Detailed Unit Price Analysis (Page 32 of 35)

DETAILED UNIT PRICE A NA LYSIS

Project : Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (k)

Description: Conduit, Boxes and Fitting

				Unit: Ls		
Α.	Designation of Personnel	No. of No. of		Hourly	Am ount	
n.		Person	Hours	Rate	Alliount	
	Construction Foreman	1	480.00		-	
	Skilled Laborer	1	480.00		-	
	Unskilled Laborer	1	480.00		-	
	D.1. T1.10 . L					
	Sub-Total (Labor)	No. of	N	Php	-	
B.	Name / Capacity (Equipment)	Units	No. of Hours	Hourly Rate	Am ount	
	Electric Grinder	1	480.00	Rate	0.00	
	Electric Hand Drill		480.00		0.00	
	Electric harid Drill	'	400.00		0.00	
	Sub-Total (Equipment)			Pho		
	I			Unit		
C.	Name / Specification (Materials)	Unit	Quantity	Cost	Am ount	
	Main Service Conduit					
	Service Entrance Cap 2-1/2" (Diecast Aluminum)	pc	3.00		-	
	65mm@ RSC Pipe	pc	3.00		-	
	65mm@ RSC Locknut	pc	9.00		-	
	65mm@ RSC Bushing	pc	9.00		-	
	65mm@ RSC Strap	pc	12.00		-	
	Main Service Grounding Conduit					
	20mm@ RSC Pipe	pc	1.00		-	
	20mm@ RSC Locknut	pc	2.00		-	
	20mm@ RSC Bushing	pc	2.00		-	
	20mm@ RSC Strap	pc	4.00		-	
	Distribution Service Conduit					
	Service Entrance Cap 2-1/2" (Diecast Aluminum)	pc	3.00		-	
	65mmØ RSC Pipe	pc	3.00		-	
	65mm@ RSC Locknut	pc	6.00		-	
	65mm@ RSC Bushing	pc	6.00		-	
	65mm@ RSC Strap	pc	12.00		-	
	Service Conduit					
	Service Entrance Cap 2-1/2" (Diecast Aluminum)	pc	1.00		-	
	65mm@ RSC Pipe	pc	1.00		-	
	65mm@ RSC Locknut	рс	2.00		-	
	65mm@ RSC Bushing	pc	2.00		-	
	65mm@ RSC Strap	pc	4.00		-	
	Service Entrance Cap 2" (Diecast Aluminum)	pc	2.00		-	
	50mm@ RSC Pipe	pc	2.00		-	
	co o pool i i	DC	4.00	I		
	50mm@ RSC Locknut 50mm@ RSC Bushing	pc	4.00	I	-	

	50mm@ RSC Strap	pc	8.00	
	Service Entrance Cap 1-1/2" (Diecast Aluminum)	pc	1.00	-
	40mmØ RSC Pipe	рс	1.00	-
	40mm@ RSC Locknut	рс	2.00	-
	40mm@ RSC Bushing	pc	2.00	-
	40mmØ RSC Strap	рс	4.00	-
	Service Entrance Cap 1-1/4" (Diecast Aluminum)	рс	3.00	-
	32mmØ RSC Pipe	pc	3.00	-
	32mmØ RSC Locknut	рс	6.00	-
	32mm@ RSC Bushing	рс	6.00	-
	32mmØ RSC Strap	pc	12.00	-
	Service Entrance Cap 1" (Diecast Aluminum)	рс	3.00	-
	25mm@ RSC Pipe	рс	3.00	-
	25mm@ RSC Locknut	pc	6.00	-
	25mm@ RSC Bushing	pc .	6.00	-
	25mm@ RSC Strap	рс	12.00	-
	Service Entrance Cap 3/4" (Diecast Aluminum)	рс	3.00	
	20mm@ RSC Pipe	pc	3.00	-
	20mm@ RSC Locknut	рс	6.00	-
	20mm@ RSC Bushing	pc	6.00	_
	20mm@ RSC Strap	рс	12.00	-
	Sub-Total (Materials)		Php	-
D.	Direct Cost (A+B+C)		Php	-
E.	Overhead, Contingencies and Miscellaneous (OCM)		% of D.	-
F.	Contractor's Profit		% of D.	-
G.	Value Added Tax (VAT)		% of (D+E+F)	-
H.	A djusted Tota I Cost (D+E+F+G)		Php	-
I.	Adjusted Unit Cost (H/Quantity)		Php	-

Detailed Unit Price Analysis (Page 33 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (I)

Description: Metering System

Adjusted Unit Cost (H/Quantity)

Quantity: 1.00 Output per hour: 0.13 Unit: set

Php

No. of No. of Hou rly A. Designation of Personnel Amount Person Hours Rate Construction Foreman 8.00 Skilled Laborer 1 8.00 Unskilled Laborer 8.00 1 Php Sub-Total (Labor) No. of No. of Hou rly В. Name / Capacity (Equipment) Amount Rate Units Hours Electric Grinder 18.00 0.00 1 Electric Hand Drill 18.00 0.00 Sub-Total (Equipment) Php Unit c. Name / Specification (Materials) Unit Quantity Amount Cost Meter, Base Socket CL-200, 7 Jaw 1.00 рс Meter, KWH, 3 Phase, Class 20, 240V, 3W, Form 45A, рс Electronic, Complete w/ TOU & Load Profiling 1.00 CT, Box, 10"X 14"X 18" 1.00 рс Current Transformer 30/15/10:5, 15KV рс 1.00 Sub-Total (Materials) Php Php Direct Cost (A+B+C) D. Overhead, Contingencies and Miscellaneous (OCM) E. % of D. Contractor's Profit % of D. G. Value Added Tax (VAT) % of (D+E+F) Adjusted Total Cost (D+E+F+G) H. Php

Detailed Unit Price Analysis (Page 34 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (q)

Description: Street Lights/ Perimeter Light

Quantity: 5.00 Output per hour: 0.25 Unit: set

				Unit:	set				
Α.	Designation of Personnel	No. of	No. of	Hourly	Amount				
٨.		Person	Hours	Rate	Amount				
	Construction Foreman	1	20.00		-				
	Skilled Laborer	1	20.00		-				
	Unskilled Laborer	1	20.00		-				
	Sub-Total (Labor)	No. of		Php	-				
B.	Name / Capacity (Equipment)		No. of	Hourly	Amount				
		Units	Hours	Rate					
	Electric Grinder	1	20.00		0.0				
	Electric Hand Drill	1	20.00		0.0				
	Sub-Total (Equipment)		Php	-					
C.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount				
	Lamp Post 25', Hot Dip Galvanized			Cost					
		pc	5.00		•				
	LED Streetlights, Solar, 150W, Daylight, Polycrystalline	pc	13.00		•				
	Lamp Post Single Arm, Hot Dip Galvanized	pc	13.00		-				
	Lamp Post Anchor Bolt for 25', Hot Dip Galvanized	pc	20.00		-				
	Concreting Works	m3	1.00						
	Portland Cement	bag	15.00		-				
	Crushed Gravel 3/4"	au.m	1.00		-				
	Washed Sand	au.m	1.00		-				
	Rebar Works								
	Deformed Round Bars, Grade 40	kg	71.50		-				
	G.I. Tie Wire	kg	0.18		-				
	Formwork Works								
	Coco Lumber	bd.ft	415.80		-				
	Plywood Ordinary, 1/2" x 4' x 8'	рс	5.00		-				
	CWN, Assorted	kg	10.00		-				
	-								
D.	D. Direct Cost (A+B+C) Php								
E.	Overhead, Contingencies and Miscellaneous (OCM) % of D.								
F.	Contractor's Profit % of D.								
G.	Value Added Tax (VAT)			% of (D+E+F)	-				
H.	Adjusted Total Cost (D+E+F+G)			Php	-				
I.	Adjusted Unit Cost (H/Quantity)			Php	-				

Detailed Unit Price Analysis (Page 35 of 35)

DETAILED UNIT PRICE ANALYSIS

Project: Upgrading of Electrical System (Overhead System)

Location: : CITY OF BIÑAN

Item: E 10 (b)

Description: Secondary Distribution

Quantity: 17.00
Output per hour: 0.25
Unit: set

				UIIIC	361
A.	Designation of Personnel	No. of	No. of	Hourly	Amount
А.		Person	Hours	Rate	Amount
	Construction Foreman	1	68.00		-
	Skilled Laborer	1	68.00		-
	Unskilled Laborer	1	68.00		-
	Sub-Total (Labor)			Php	-
В.	Name / Capacity (Equipment)	No. of	No. of	Hourly	Amount
		Units	Hours	Rate	
	Boom Truck	1	68.00		0.00
	Bucket Truck	1	68.00		0.00
	mini backhoe	1	68.00		0.00
	Sub-Total (Equipment)			Php	-
c.	Name / Specification (Materials)	Unit	Quantity	Unit	Amount
٠.	runo, opositication (materiale)		Quartey	Cost	ranount
	Straight Alignment				
	Pole, Steel, 30', Bare-3.0 mm, 86 Micron, 500 kgs	pc	8.00		_
	(Minimum Load Break)				
	Bracket, Clevis Dead-end Without Spool	pc	24.00		-
	Insulator, Spool, 1-3/4", ANSI, Class 53-2	pc	24.00		-
	Bolt, Double Upset 5/8" X 10", Hot Dip Galvanized, Forged	pc	24.00		-
	Nut, Lock, MF Type, 5/8"	pc	48.00		-
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	рс	48.00		-
	Corner or Obtuse Alignment				
	Pole, Steel, 30', Bare-3.0 mm, 86 Micron, 500 kgs	pc	9.00		_
	(Minimum Load Break)				
	Bracket, Clevis Dead-end Without Spool	pc	27.00		-
	Insulator, Spool, 1-3/4", ANSI, Class 53-2	pc	27.00		-
	Bolt, Double Upset 5/8" X 10", Hot Dip Galvanized, Forged	pc	27.00		-
	Nut, Lock, MF Type, 5/8"	pc	54.00		-
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	54.00		-
	Bolt, Oval Eye 5/8" X 12", Hot Dip Galvanized, Forged	pc	27.00		-
	Scaffolding Rental				

1	Scaffolding	set	153.00		-
	Pole Support for Corner & Obtuse Alignment				
	Sidewalk Fixture, 44 1/2"	рс	9.00		-
	Guy, Grip Spacer, 5/8"	рс	18.00		-
	Bolt, Machine 5/8" X 8"", Hot Dip Galvanized	рс	27.00		-
	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	pc	162.00		-
	Attachment, Guy, Malleable Type with 11/16" Hole Diameter	рс	27.00		-
	Rod, Anchor, Threaded, Double Eye, 3/4" X 10', Hot Dip Galvanized, Forged	рс	36.00		-
	Anchor, Expanding, 8 - Ways, Hot Dip Galvanized	pc	36.00		-
1	Anchor, Block, 3'	рс	36.00		-
	Anchor, Screw Eye Shaft, 3/4" X 8', HDG, Forged	рс	36.00		-
	Wire, Guy, Steel, 3/8", 7 Strand, High Strength	ft	2,520.00		-
	Guy, Dead-end Grip, 3/8"	рс	1.00		-
	Insulator, Strain, #502, ANSI 54-1	pc	9.00		-
	Protector, Wire, Guy, 7" HDPE Pipe (Yellow)	pc	9.00		-
	Concreting Works	m3	51.00		
	Portland Cement	bag	459.00		-
	Crushed Gravel 3/4"	cu.m	51.00		-
	Washed Sand	cu.m	25.50		-
	Rebar Works				
	Deformed Round Bars, Grade 40	kg	2,042.51		-
	G.I. Tie Wire	kg	71.49		-
	Formwork Works				
	Coco Lumber	bd.ft	4,441.20		-
	Plywood Ordinary, 1/2" x 4' x 8'	pc	68.00		-
	CWN, Assorted	kg	34.00		-
	Sub-Total (Materials)			Php	
D.	Direct Cost (A+B+C)			Php	
E.	Overhead, Contingencies and Miscellaneous (OCM)	-			
F.	Contractor's Profit	12% of D. 10% of D.	-		
G.	Value Added Tax (VAT)			5% of (D+E+F)	-
н.	Adjusted Total Cost (D+E+F+G)			Php	-
1.	Adjusted Unit Cost (H/Quantity)			Php	-

Biñan Elementary School **Detailed Cost Estimate (Part 1 of 1)**

PROGRAM OF WORKS

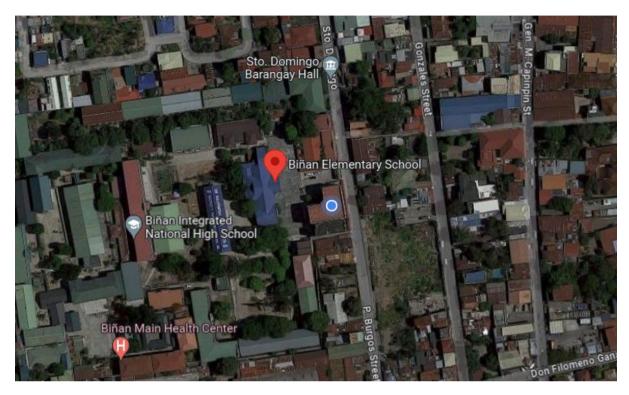
DETAILED COST ESTIMATE (TOTAL CONSTRUCTION COST/A BC) ELEC 2023 - RVIA - BIÑA N - 001

FROJECT: Upgrading of Electrical System (Overhead System)
SCHOOL: BIRAN CS (DORA AURORA ES)
LOCATION: CITY OF BIRAN
OWNER: DEPART MENT OF EDUCATION

Estimate Description										CONTRAC	F DURATION:	DURATION: 240	
NO		DESCRIPTION	QUANTITY UNI	UNIT	DIRECT			TOTAL MARK-UP		VAT (696)			
A Temporary Facilities of Explaner A.1 Temporary Facilities of Explaner Temporary Facilities of Explaner 8. Ober General Requirements 8. 1 Fire Softhy Impaction Curricular (FSIC) 8. 1 Fire Softhy Impaction Curricular (FSIC) 8. 1 Security ISB Deposit 8. 2 Security ISB Deposit 8. 2 Security ISB Deposit 8. 3 Equipment Testing and Commissioning 1.00 Lis 8. 3 Equipment Testing and Commissioning 1.00 Lis 8. 4 Mobilization and Demonobilization C.1 Mobilization and Demonobilization C.2 Security ISB Deposit 1.00 Expragrant Globoling 1.00 Lis - Removed of Ethicular and Obstractions Clearing of Right of Way 1.00 Lis - Clearing of Right of Way 1.01 Lis - Clearing of Right of Way 1.02 Lis - Clearing of Right of Way 1.03 Lis - Clearing of Right of Way 1.04 Lis - Clearing of Right of Way 1.05 Lis - Clearing of Right of Way 1.06 Security Isbanishon 1.07 Security Isbanishon 1.08 Security Isbanishon 1.09 Explaner Commissioning 1.00 Lis - Commissionin	NO.				COST	OCM	PROFIT	96	VALUE				
A	m	(2)	(3)	(4)	(5)	(6)	(7)						
B	A	Temporary Facilities of Engineer											
### Stately Inspection Certificate (FSIC)	A.1	Temporary Facilities	8.00	Month	-								
### Project Bibourd of Signage ### 100 Each													
### SP-12 Construction Safety and Health ### SP-2 Construction Safety and Commissioning ### SP-2 Construction Safety and Commissioning ### SP-2 Construction Safety Safety ### SP-2 Construction Safety ### SP-2 Co				lot	-								
B.2 Security BI Disposal 1.00 Lis		, , ,											
Building		Construction Safety and Health			-								
C. Mobilization and Cennobilization 1.00 1.					-								
C.1 Modification and Demobilization 1.00 Ls			1.00	Ls	-								
Removal of Brookers and Obstructions													
Cearing of Right of Way	C.1		1.00	Ls	-								
1 (a) Caaring and Grubbing 56.00 69, m													
1 5 Structurial Excavation 112.67 Cu m -	1.0007		1.00	Ls	-								
1 D Structural Excavation 112.67 Cu m -													
1 15 Gravel Bedding G-1							_						
1 (a) Embankment					_								
13 (a) Mansory Parinting													
13 (a) Mansory Painting 12.16 sq m -			81.67	LS	-								
13 to Metal Painting			42.45										
E 2 (f) Outri Bank 1 (a) Clearing and Grubbing 122.40 sq.m -					-								
1 (a) Clearing and Grubbing 122.40 Sq.m -			34.00	sq m									
1 (b) Structural Excavation 73.00 cu m .			422.40										
1 (c) Backfiling of Excavated Materials													
1 (5) Gravel Bedding G-1 73.44 Cu m -							_						
2 (a) Concreting Works 73.44 cu m		- v					_						
4 (a) Installation and Removal of Formworks 122.40 sq.m -													
E 10 (k) Conduit Works, Boses & Fittings							_			<u> </u>			
10,000 Electrical Works													
E 2 (a) Service Entrance Concrete Pedestal 1.00 lot -			1.00		-								
E 2 (b) Power House (Electrical Room) 1.00 lot			1.00	Lot									
E 10 (a) Primary Extension										<u> </u>			
E 10 (b) Distribution Poles						l							
E 10 (c) Distribution Transformer Accessories and Assembly 1.00 unit	()												
E 10 (d) Grounding Assembly 1.00 set -													
E 10 (g) Guy Assembly and Anchor Assembly 1.00 set - Removal of Clid Winns and Electrical Equipment & Devices 1.00 Ls - E 10 (i) Wines and Winnig Devices 1.00 Ls - E 10 (ii) Panel Board and Circuit Protections 1.00 Ls - E 10 (ii) Panel Board and Circuit Protections 1.00 Ls - E 10 (ii) Metering System 1.00 Ls - E 10 (ii) Street Lights/Perimeter Light 5.00 set - E 10 (g) Street Lights/Perimeter Light 5.00 set - E 10 (r) Secondary Distribution 17.00 set - E 10													
Removal of Cirl Wires and Electrical Equipment & Devices 1.00										1			
E 10 (i) Wires and Wirling Devices 1.00 Ls - E 10 (i) Panel Board and Circuit Protections 1.00 Ls - E 10 (ii) Conduit Works, Boses & Ritings 1.00 Ls - E 10 (ii) Metering System 1.00 set - E 10 (ii) Street Light of Perimeter Light 5.00 set - E 10 (iii) Secondary Distribution 17.00 set - E 10 (iv) Secondary Distribution 17.00 set - E 10					-								
E 10 (i) Panel Board and Circuit Protections 1.00 Ls - E 10 (ii) Conduit Works, Boxes & Fittings 1.00 Ls - E 10 (ii) Medicing System 1.00 set - E 10 (ii) Street Light of Perimeter Light 5.00 set - E 10 (r) Secondary Distribution 17.00 set -	E 10 (i)		1.00	Ls		l							
E 10 (i) Metering System 1.00 set - E 10 (a) Street Light of Perimeter Light 5.00 set - E 10 (r) Secondary Distribution 17.00 set -	- 17		1.00							1			
E 10 (i) Metering System 1.00 set - E 10 (a) Street Light of Perimeter Light 5.00 set - E 10 (r) Secondary Distribution 17.00 set -	E 10 (k)	Conduit Works, Boxes & Fittings	1.00	Ls	-								
E 10 (q) Street Light's Perimeter Light 5.00 set - E 10 (r) Secondary Distribution 17.00 set -			1.00	set	-	l							
E 10 (r) Secondary Distribution 17.00 set -			5.00	set	-								
TOTAL CONSTRUCTION COST			17.00	set	-								
		TOTAL CONSTRUCTION COST											

Section VII. Drawings

MAP (Binan Elementary School) P. Burgos Street, Sto. Domingo Zone 2, Biñan, 4024 Laguna





Electrical Plans (Page 1 of 8)

GENERAL NOTES AND SPECIFICATIONS

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 1. ALL ELOTROAL WORKS HERBIN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELOTROAL WORKS HERBIN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE EXISTING LOCAL ORDINANCES RULES & REGULATIONS OF THE HUMIPON ELECTRICAL CODE (PEC). THE EXISTING LOCAL ORDINANCES RULES & REGULATIONS OF THE HUMIPON ELECTRICAL SERVICE TO BE SUPPLIED SHALL BE THREE PHASE, 3 WINE + REQUINDING ALL ELECTRICAL SERVICE TO BE SUPPLIED SHALL BE THREE PHASE, 3 WINE + REQUINDING ALL SERVICE PHASE, 3 WINE + REQUINDING PHASE SHALL BE COMPUTED AND COINDING FOR GROUNDING EEPDER IN ACCORDANCE TO LATEST VERSION OF PEC COUNTY AND COLOR COORD. THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE SERVICE INDICATED AND COLOR COORD. THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE SERVICE AND MAIN BREAKER ATLEST IN SO AMPERE THE BOLT ON TYPE BREAKER.

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 ATLEST IN SOME EXTREME THE BOLT ON TYPE SERVICE AND THE REPORT OF WOOD WALLS. FLEXIBLE METALLIC CONDUITS SHALL BE USED HHERE REQUIRED MINIMUM SIZE FOR ALL CONDUITS. CONCULT CONDUIT CONCULT AND THE SERVICE AND THE SERVICE

		Voltage	230V	Enclosu	re:	Surfac	e Mour	ated	, NEM	A 3R	
Panel	Main Circuit Breaker	Phase	30	CB Type	1	MCCB.	Bolt-C	n			
Ckt No.	Description	Power Pha		ase Curren	(A)	Cut	euit Pre		on	Pender Wire	
CRU NO.	Description	(KVA)	OAB	OBC	OCA	AT	AF	P	KAIC		eccer wire
- 1	Main Distribution Panel - 1	- 66	174.07	51.41	59.87	400	400	3	30.0	Z100+G30	2 (53mm)
2	Mein Distribution Panel - 2	139	214.50	201.33	187.09	500	600	3	35.0	Z125+G30	2 (53mm)
3	Main Distribution Panel - 3	105	49.04	112.26	294.48	700	800	3	35.0	Z200+G50	2-1/2 (63mm)
Total Co	onnected Load, KVATOTAL	309KVA	437.61	365.00	541.43						
Full Loa	d Current = 13 x Highest Phase Current x 80% DF	750.21A		Feeder W	ire:						
Minimu	inimum Ampacity of Feeder Conductor = Lp. x 125%			Use	3 SETS C	F (Z200-	G30 in	2-1/	/2 (63m	m) Ø R8C)	
Transfer	rmer Sizing = KVA _{FOUA} , x 80% DF	247KVA		Main Cire	uit Prote	otion:					
Usc	3 - 100KVA 13.8/0.23 kV, 3 Phase, 60Hz AMD Tran	sformer		Use: 1200AT, 1200AF, 3P, 230V, 75KAIC							
Trunsfor	rmer Ampacity and Overcurrent Protection										
At Prim	ary Side:			At Secon	dary Side						
In:	Transformer Size / 43 x (Service Line Vret) =	10.35A		In.	Transform	ner Size	/ ×3 x (1	Servi	ice Line	Vseci	620.81/
Allowabl	le Ampacity of Conductor - Ln. x 125% -	12.93A		Allowable	Ampacit	y of Con	luctor -	In.	x 125%	-	776.018
Usc	Use: Z8-G8 35kV XPLE Power Cable			Uso: 3 SETS OF (Z150+G30 in 2 (53mm) @ RSC)							
Max. Set	ax. Setting of Overcurrent Primary Protection for Transformer over 600V			Max. Set	ting of Ove	ercurren	t Secon	dary	Prote	ction for Tran	sformer over 600V
Senior =	HEEF = (300% Puse Rating) x In. 31.04A			Terrer =	(250% Ci	reuit Bre	aker Re	ting	x la.		1,552.014
Use:	40A Power Puse			Use:	2000AT.	2000AF.	3P. 230	W. 7	SKAIC		

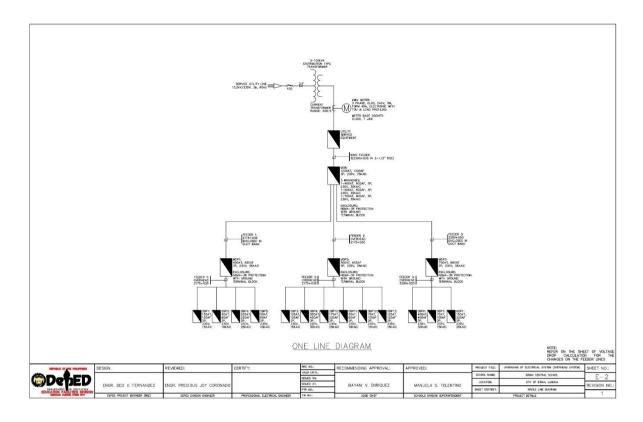
Panel	Main Distribution Panel - 1	Voltage	230V	Enclosu	re:	Surface Mounted, NEMA 3R								
Panel	main Distribution Panel - 1	Phase	3Ø	CB Type	:	MCCB.	Bolt-C	n						
Bldg	Description	Power	Power Phu		(A)	Cir	cuit Pro	tecti	ion	Feeder Wire				
No.	Description	(VA)	OAB	OBC	OCA	AT	AF	P	KAIC		reeder wire			
1	Gev. Teresita Lazaro Building (3 Sty 6 Cl)	13,770			59.87	100	100	2	15.0	Y22+G8	1 (27mm)" Ø RSC			
2	Nereo Joaquin Building (2 Sty 4 Cl)	5,535		24.07		50	60	2	10.0	Y8-G8	3/4 (21mm)" Ø RSC			
4	SPED Building (2 Sty 14 Cl)	40,035	174.07			225	225	2	25.0	Y100+G30	2 (53mm)" Ø RSC			
5	SPED Transition Building (1 Sty 2 Cl)	6,290		27.35		50	60	2	10.0	Y8-G8	3/4 (21mm)" Ø RSC			
Total Co	onnected Load, KVATOTAL	66KVA	174.07	51.41	59.87									
Full Los	d Current = 1/3 x Highest Phase Current x 80% DF	241.18A		Feeder W	ire:									
Minimu	m Ampacity of Feeder Conductor = 1 _{H,} x 125%	301A		Use:	Z100+G3	0 in 2 (5	3mm) O	RS	2					
				Main Circ	uit Prote	ction:								

		Voltage	230V	Enclosu	re:	Surfac	e Mour	ated	, NEM	A 3R		
Panel	Main Distribution Panel - 2	Phase	30	CB Type	1	MCCB.	Bolt-C	On			-	
Bldg.	Description	Power	Ph:	ise Curren	r(A)	Cir	cuit Pro	tect	ion	Feeder Wire		
No.	Description	(VA)	OAB	OBC	OCA	AT	AF	P	KAIC		Feeder Mite	
3	Perez Building (2 Stv 12 Cl)	21,410		93.09	-	125	125	2	15.0	Y50-G14	1-1/4 (35mm)* Ø RSC	
9	Home Economics Building (2 Sty 7 Cl)	49,335	214.50			300	400	3	30.0	Y150+G30	2 (53mm)" Ø RSC	
10	Perez Building (2 Sty 18 Cl)	30,380	-		132.09	175	225	2	25.0	Y80 G22	1-1/2 (41mm)* O RSC	
11	Gov. Jose Lina Building (2 Sty 4 Cli	5,040		21.91		50	60	2	10.0	¥8-08	3/4 (21mm)" Ø RSC	
12	Uliran Joaquin Building (2 Sty 4 Cl)	12,650		and the same of	\$5.00	70	100	2	15.0	Y22+G8	1 (27mm)" Ø RSC	
13	MBP/ALS Building (2 Sty 5 Cl)	19,855		86.33		125	125	2	15.0	Y38-G14	1-1/4 (35mm)* O RSC	
Total C	onnected Load, KVATOTAL	139KVA	214.50	201.33	187.09							
Full Los	d Current = v3 x Highest Phase Current x 80% DF	297.21A		Feeder W	ire:							
Minimu	m Ampacity of Feeder Conductor = I ₁₅ x 125%	372A		Use	Z125+G3	0 in 2 (5)	3mm) Ø	RS	С			
	\$ 100 m			Main Circuit Protection:								
				Use	500AT, 6	00AF, 3P	. 230V.	35h	AIC			

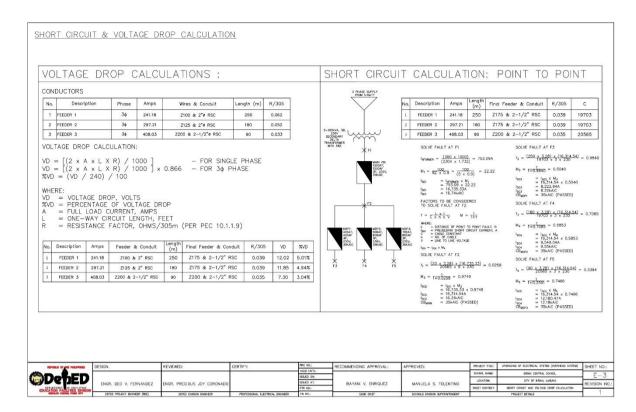
	***	Voltage	230V	Enclosu	re:	Surfac	e Mou	nted	, NEM	A 3R		
Panel	Main Distribution Panel - 3	Phase	30	СВ Туре	MCCB, Bolt-On							
Bldg	Description	Power	Ph	ase Current(A)		Cir	euit Pro	otect	on		Feeder Wire	
No.	Description	(VA)	ØAB	ØBC	ØCA	AT	AF	P	KAIC		reeder wire	
.6	Gabaldon School Building (1 Sty 4 Cl)	67,730	-	-	294.48	400	400	2	30	Y250+G50	2-1/2 (63mm) Ø RSC	
7	Security Bank Building (2 Sty 8 Cl)	11,280	49.04			70	100	2	15	Y14+G8	1 (27mm)* Ø RSC	
8	DepEd Standard School Building (4 Sty 16 Cl)	25,820		112.20		150	225	2	25	Y60-G22	1-1/+ (35mm) O RSC	
Total Co	ennected Load, KVATOTAL	105KVA	49.04	112.26	294.48							
Full Los	d Current = 1/3 x Highest Phase Current x 80% DF	408.03A		Feeder W	ire:							
Minimu	m Ampacity of Feeder Conductor = In. x 125%	510A		Usc:	Z200+C5	0 in 2-1/	2 (63m	ım) e	RSC .			
				Main Circ	uit Prote	ction:						

	25	200			35	Ust. In	cont, coont, a	, 2001, 00KHC		
REPUBLIC OF JUST PRESTREES	DESIGN:	REVIEWED:	CERTIFY:	PRC NO.:	RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLES	UPGRADING OF ELECTRICAL SYSTEM (OVERHEAD SYSTEM)	SHEET NO.:	1
		i i i i i i i i i i i i i i i i i i i		VALID UNTL:			SCHOOL NAME:	BIÑAN CENTRAL SCHOOL	F-1	1
DefiED	BA TO SET 1 SECTION 1 A NUMBER OF THE SECTION 1		l .	ISSUED ON:		production and the control of the co	LOCATION:	DTY OF BRAN, LAGUNA		4
DEPARTMENT OF PROCATION	ENGR. DEO V. FERNANDEZ	ENGR. PRECIDUS JOY CORONADO		PTR NO:	BAYANI V. ENRIQUEZ	MANUELA S. TOLENTINO	SHEET CONTENT:	ENERAL NOTES & SPECIFICATION & WAIN SCHEDULE OF LOAD	REVISION NO.:	1
EDUCATION FACILITIES DIVISION	DEPEN PROJECT INGINEER (REF)	DEPEN COMSON PAGINEER	PROFESSIONAL FLECTRICAL ENGINEER	IN NO.	5000 OHE*	SCHOOLS DIMISION SUPERINTENDENT		PROJECT DETHIS	1 1	П

Electrical Plans (Page 2 of 8)



Electrical Plans (Page 3 of 8)



Electrical Plans (Page 4 of 8)



Bldg.	Nereo Joaquin Building (2 Sty 4 Cl)	Voltage	230	Encl	osure		Flush Type Panel Board				
2	nereo Joaquin Building (2 Sty 4 Ci)	Phase	10	CB Type:			Bolt-On				
Ckt		Power	Current	Circ	uit P	rote	ction				
No.	Description	(VA)	(A)	AT	AF	P	KAIC	Feeder Wire	Conduit		
1	28 x Lighting Outlet - 60W	1,680	7.30	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PV		
2	13 x Wall Fan - 60W	975	4.24	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PV		
3	16 x Convenience Outlet - 180W	2,880	12.52	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PV		
Full L	oad Current = I _T x 100% Demand Factor	100	Main Cir	cuit l	rote	ctic	on & E	nclosure:			
In-	24.07A		Use	50A1	r, 60/	F,	2P, 23	OV, 10KAIC			
Minin	inimum Ampacity of Feeder Conductor = 125% x In.		Feeder 8	Gro	and W	lire	& Con	aduit:			
La	Lat 30.08A		Hen	V8+6	18 in	3/4	(21m)	ml' Ø RSC			

Bldg.	SPED Building (2 Sty 14 Cl)	Voltage	230	Encl	osure	:	Flush	lush Type Panel Board			
4	SPED Building (2 Sty 14 Ci)	Phase	10	CB 1	CB Type:			Bolt-On			
Ckt	80. 800	Power	Current	Circ	uit Pr	ote	ction	SC 100 10000	20 000		
No.	Description	(VA)	(A)	AT	ΛF	P	KAIC	Feeder Wire	Conduit		
1	125 x Lighting Outlet - 60W	7,500	32.61	50	60	2	10.0	Y8+G8	3/4 (21mm) Ø PVC		
2	9 x Wall Fan - 60W	675	2.93	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC		
3	85 x Convenience Outlet - 180W	15,300	66.52	100	100	2	15.0	Y22+G14	1 (27mm) Ø PVC		
4	9 x Aircon (1 HP)	16,560	72.00	100	100	2	15.0	Y30+G8	1 (27mm) Ø PVC		
Full L	oad Current = Ir x 100% Demand Factor		Main Cir	cuit l	rote	etic	n & E	nclosure:			
In-	In- 174.07A		Use	225/	T. 22	5A	F. 2P.	230V, 25KAI	C		
Minin	linimum Ampacity of Feeder Conductor = 125% x I/L			Gro	and W	ire	& Cos	duit:			
La-	For 217.58A			Y100	+630	in	2 (53)	nm)* Ø RSC			

Bldg.	SPED Transition Building (1 Sty 2 Cl)	Voltage	230	Encl	osure	b:	Flush	Type Panel	Board
5	SPED Transition Building (1 Sty 2 Cl)	Phase	10	CB 1	ype:		Bolt-	On	
Ckt		Power	Current	Circ	uit P	rote	ction		
No.	Description	(VA)	(A)	AT	AF	P	KAIC	Feeder Wire	Conduit
1	22 x Lighting Outlet - 60W	1,320	5.74	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
2	2 x Wall Fan - 60W	150	0.65	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
3	14 x Convenience Outlet - 180W	2,520	10.96	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
4	1 x Water Pump (1.5 HP)	2,300	10.00	30	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
Full L	oad Current = It x 100% Demand Factor		Main Cir	cuit l	rote	ctic	on & E	nclosure:	
In-	27.35A		Use:	50A1	r, 60/	MF,	2P, 23	OV, 10KAIC	
Minim	inimum Ampacity of Feeder Conductor = 125% x In.			Gro	and V	7ire	& Cor	aduit:	
Ica*	la* 34.18A			Y8+0	18 in	3/4	(21m	m)" Ø RSC	

NOTE:
CREAT PROTECTION FOR EACH BUILDING MAY DIFFER ON ACTUAL.
THE COMPUTED LOADS ARE DERIVED AND IN ACCORDANCE TO THE LATEST PHILIPPINE ELECTRICAL CODE
IN ORDER TO DETERMINE THE PROPER SIZE OF DISTRIBUTION FEIGURE UND CIRCUIT PROTECTION.

					10	IN ORDER TO DETERMINE	THE THOLEN SIE	of pishingo hore respect total Area discours	TO TEO TION
REPUBLIC OF DIS PRESENCES	DESIGN:	REVIEWED:	CERTIFY:		RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLES	UPGRADING OF ELECTRICAL SYSTEM (OVERHEAD SYSTEM)	SHEET NO.:
				VALID UNTIL:			SCHOOL NAME:	BRAN CENTRAL SCHOOL	F-4
@DefiED	ENGR. DEO V. FERNANDEZ	ENGR. PRECIDUS JOY CORONADO		ISSUED AT	BAYANI V. ENRIQUEZ	MANUELA S. TOLENTINO	LOCATION:	DTY OF BRAN, LAGUNA	REVISION NO.:
EDUCATION FACILITIES DIVISION	ENGK. DEG V. FERRANDEZ	ENGN. PRECIDES SOT CONCRADO		PTR NO:	BATANE V. ENROQUEZ	MANUELA S. IGENINO	SHEET CONTENT:	DETAILED SCHEDULE OF LOADS OF WOP-1	REVISION NO.:
MEDICAL ANDREAS, PARRIS CITY	DEPED PROJECT ENGINEER (PEE)	DEPED DIVISION ENGINEER	PROFESSIONAL ELECTRICAL ENGINEER	TN NO.:	SCOO CHEF	SCHOOLS DIMSION SUPERINTENDENT		PROJECT DETAILS	1 1 1

Electrical Plans (Page 5 of 8)



Bldg.	Home Economies Building (2 Sty 7 Cl)	Voltage	230	Encl	losure		Flush	Type Panel	Board
9	nome Economies Building (2 Sty 7 Ci)	Phase	10	CB 7	Cype:		Bolt-	On	
Ckt		Power	Current	Cire	uit P	rote	ction		
No.	Description	(VA)	(A)	AT	AF	P	KAIC	Feeder Wire	Conduit
-1	97 x Lighting Outlet - 60W	5,820	25.30	40	60	2	10.0	Y5.5+G5.5	3/4 (21mm) Ø PVC
2	5 x Wall Fan - 60W	375	1.63	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
3	48 x Convenience Outlet - 180W	8,640	37.57	50	60	2	10.0	Y8+G8	1 (27mm) Ø PVC
4	5 x Aircon (5 HP)	32,200	140.00	175	225	2	25.0	Y80+G14	1-1/4 (35mm) Ø PV
5	1 x Water Pump (1.5 HP)	2,300	10.00	30	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
Full L	oad Current = Ir x 100% Demand Factor		Main Cir	cuit l	Prote	etic	m & E	nelosure:	
3027	214.50A		Use	300/	AT, 40	OA	F. 2P.	230V, 30KAI	C
Minin	inimum Ampacity of Feeder Conductor = 125% x Int.			Grot	und W	lire	& Cor	nduit:	
Ica*	Ina* 268.13A		Use	V150)+G30) in	2 (53)	nm)"ØRSC	

Bldg.	Perez Building (2 Sty 18 Cl)	Voltage	230	Encl	osure		Fhish	Type Panel	Board
10	Perez Building (2 Sty 18 Ci)	Phase	10	CB 7	ype:		Bolt-	On	7-54/08
Ckt	1000 (POS)	Power	Current	Circuit Protec					89 170 255
No.	Description	(VA)	(A)	AT	AF	p	KAIC	Feeder Wire	Conduit
1	134 x Lighting Outlet - 60W	8,040	34.96	50	60	2	10.0	Y8+G8	3/4 (21mm) Ø PVC
2	44 x Wall Fan - 60W	3,300	14.35	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
3	93 x Convenience Outlet - 180W	16,740	72.78	100	100	2	15.0	Y30+G14	1 (27mm) Ø PVC
4	1 x Water Pump (1.5 HP)	2,300	10.00	30	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
Full L	oad Current = IT x 100% Demand Factor		Main Cir	cuit l	rote	etic	m & E	nclosure:	
1,,,	I ₁₃ * 132.09A		Use:	175/	AT, 22	5A	F, 2P,	230V, 25KAI	C
Minin	linimum Ampacity of Feeder Conductor = 125% x In.			6 Gro	and W	lire	& Cor	iduit:	
Ica*	lea* 165.11A		Use	V804	022	in 1	-1/2 (41mm\" Ø R	SC:

Bldg.	Gov. Jose Lina Building (2 Sty 4 Cl)	Voltage	230	Encl	osure	NC .	Flush	Type Panel	Board
11	Gov. Jose Link Building (2 Sty 4 Ct)	Phase	10	CB 7	ype:		Bolt-0	On	
Ckt	1710-1110-1110	Power	Current	Circ	uit P	rote	ction		No. beautiful and the second
No.	Description	(VA)	(A)	AT	AF	P	KAIC	Feeder Wire	Conduit
1	24 x Lighting Outlet - 60W	1,440	6.26	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
2	12 x Wall Fan - 60W	900	3.91	15					3/4 (21mm) Ø PVC
3	15 x Convenience Outlet - 180W	2,700	11.74	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
Full L	oad Current = I _T x 100% Demand Factor	- 0	Main Cir	cuit I	rote	etic	m & E	nclosure:	
Inc-	21.91A		Use	50A	, 60/	F.	2F, 23	OV, 10KAIC	
Minin	inimum Ampacity of Feeder Conductor = 125% x Iru		Feeder 8	Grot	and W	ire	& Cor	iduit:	
100	₩- 27.39A			Y8+0	is in	3/4	(21m)	m)"Ø RSC	

Bldg.	dg		230	Enclosure:			Flush	Type Panel	Board	
12	Uliran Joaquin Building (2 Sty 4 Cl)	Phase	Current (A)	CB Type: Bolt-			Bolt-0			
Ckt	Description	Power								
No.		(VA)		AT	AF	P	KAIC	Feeder Wire	Conduit	
1	26 x Lighting Outlet - 60W	1,560	6.78	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC	
2	14 x Wall Fan - 60W	1,050	4.57	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC	
3	20 x Convenience Outlet - 180W	3,600	15.65	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC	
4	1 x Aircon (5 HP)	6,440	28.00	40	60	2	10.0	Y5.5+G5.5	3/4 (21mm) Ø PVC	
Full L	oad Current = Ir x 100% Demand Factor	-	Main Cir	cuit I	rote	etic	n & E	nclosure:		
Irc*	55.00A		Use	70A	, 100	AF	2P, 2	30V, 15KAIC		
Minimum Ampacity of Feeder Conductor = 125% x Int.			Feeder & Ground Wire & Conduit:							
La.	68.75A	30%	Use	Y224	G8 ir	1	27mm	ir ø RSC		

Bldg.	Bldg. MBP/ALS Building (2 Sty 5 Cl)		230	Encl	Enclosure:			Flush Type Panel Board			
13	MBP/ALS Building (2 Sty 5 Ci)	Phase	10	CB 7	ype:		Bolt-	On			
Cict	Description	Power	Current (A)	Circuit Prote			ction	and the same of the same of	0.0000000000000000000000000000000000000		
No.		(VA)		AT	AF	p	KAIC	Feeder Wire	Conduit		
1	48 x Lighting Outlet - 60W	2,880	12.52	20	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC		
2	1 x Wall Fan - 60W	75	0.33	15	60	2			3/4 (21mm) Ø PVC		
3	30 x Convenience Outlet - 180W	5,400	23.48	30	60	2	10.0	Y5.5+G5.5	3/4 (21mm) Ø PVC		
- 4	4 x Aircon (1.5 HP)	9,200	40.00	50		2			1 (27mm) Ø PVC		
5	1 x Water Pump (1.5 HP)	2,300	10.00	30	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC		
Full Load Current = Ir x 100% Demand Factor				cuit I	rote	ctic	n & E	nclosure:			
I _{FC} = 86.33A				125/	T. 1:	25A	F. 2P.	230V, 15KAI	c		
Minin	num Ampacity of Feeder Conductor = 125% x	Irt	Feeder 8	Grou	and V	lire	& Co	nduit:			
Lan	107.91A		Use	V384	G14	in I	-1/4	35mm)" Ø R	SC.		

NOTE:
CROUT PROTECTION FOR EACH BUILDING MAY DIFFER ON ACTUAL.
THE COMPUTED LOADS ARE DERINED AND IN ACCORDANCE TO THE LATEST PHILIPPINE ELECTRICAL CODE
IN ORDER TO DETERMINE THE PROPER SIZE OF DISTRIBUTION FEEDER LINE AND CIRCUIT PROTECTION.

	REPORTS OF THE PRESENCE
	DefiED
EDU	CATION FACILITIES DIVISION

Ī	DESIGN:	REVIEWED:	CERTIFY: PRO NO.:		RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLES	UPGRADING OF ELECTRICAL SYSTEM (OVERHEAD SYSTEM)	SHEET NO.:
ı			000000000000000000000000000000000000000	VALID UNTL:	V		SCHOOL NAME:	COL NAME BRAN CENTRAL SCHOOL	
ě				ISSUED ON:	1	1	LOCATION:	DTY OF BRAN, LAGUNA	E-5
	ENGR. DEO V. FERNANDEZ	ENGR. PRECIDUS JOY CORONADO		ISSUED AT	BAYANI V. ENRIQUEZ MANUELA S. TCLENTINO				REVISION NO.:
u	creatives and a creative of	STATE TO STATE STATE AND STATE AND STATE STATE AND STATE		PTR NO.:	A STATE OF THE STA	ASSESSMENT STATE OF THE PROPERTY OF THE PROPER	SHEET CONTENT:	DETAILED SCHEDULE OF LOADS OF MDF-2	
1	DEPED PROJECT ENGINEER (REE)	DEPED DIVISION ENGINEER	DEFED EINISON DIGNEER PROFESSIONAL ELECTRICAL ENGINEER		5000 OHEF	SCHOOLS DIMISION SUPERINTENDENT			

Electrical Plans (Page 6 of 8)



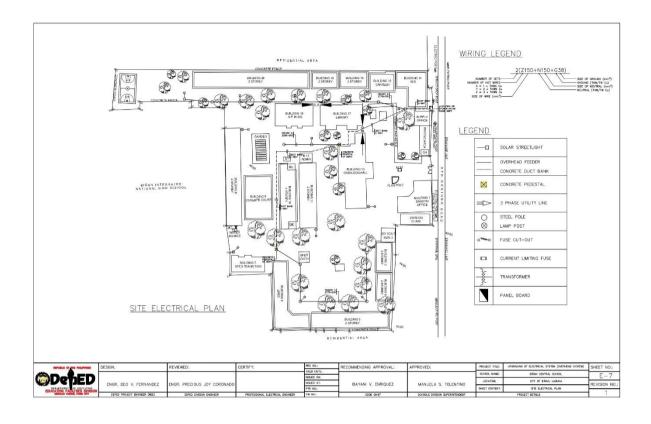
Bldg.	Security Bank Building (2 Sty 8 Cl)	Voltage	230	Encl	osure	:	Flush	Type Panel	Board
7	Security Bank Building [2 Sty 8 Ci]	Phase	10	CB Type:		Bolt-On			
Ckt	management.	Power	Current	Circ	uit P	rote	ction		05050500000
No.	Description	(VA)	(A)	AT	AF	P	KAIC	Feeder Wire	Conduit
1	68 x Lighting Outlet - 60W	4,080	17.74	30	60	2	10.0	Y3.5+G5.5	3/4 (21mm) Ø PVC
2	24 x Wall Fan - 60W	1,800	7.83	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC
3	30 x Convenience Outlet - 180W	5,400	23.48	30	60	2	10.0	Y5.5+G5.5	3/4 (21mm) Ø PVC
Full L	oad Current = Ir x 100% Demand Factor	Main Cir	cuit 1	Prote	eti	on & E	nclosure:		
In-	In= 49.04A				Use: 70AT, 100AF, 2P, 230V, 15KAIC				
Minin	num Ampacity of Feeder Conductor = 125% x	In.	Feeder &	Gro	and W	ire	& Con	aduit:	
Lat	161 20A		Hen	V14	ca i	. 1	(27mm	or or pec	

Bldg.	DenEd Standard School Building (4 Sty 16 Cl)	Voltage	230	Enclosure:			Flush Type Panel Board			
8	Depth standard school building (4 Sty 16 Ci)		10	CB Type:			Bolt-On			
Ckt	Description	Power	Current (A)	Circuit Protectio			ection			
No.		(VA)		AT	AF	P	KAIC	Feeder Wire	Conduit	
1	256 x Lighting Outlet - 60W	15,360	66.78	100	100	2	15.0	Y22+G14	1 (27mm) Ø PVC	
2	32 x Wall Fan - 60W	2,400	10.43	15	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC	
3	32 x Convenience Outlet - 180W	5,760	25.04	40	60	2	10.0	Y5.5+G5.5	3/4 (21mm) Ø PVC	
4	1 x Water Pump (1.5 HP)	2,300	10.00	30	60	2	10.0	Y3.5+G3.5	3/4 (21mm) Ø PVC	
Full L	oad Current = Ir x 100% Demand Factor		Main Cir	cuit I	rote	etie	on & E	nclosure:		
Ies= 112.26A				Use: 150AT, 225AF, 2P, 230V, 25KAIC						
Minimum Ampacity of Feeder Conductor = 125% x In.			Feeder & Ground Wire & Conduit:							
Ior 140.33A			Use:	Y60+	G22	in	1-1/4 (35mm)" Ø Rs	3C	

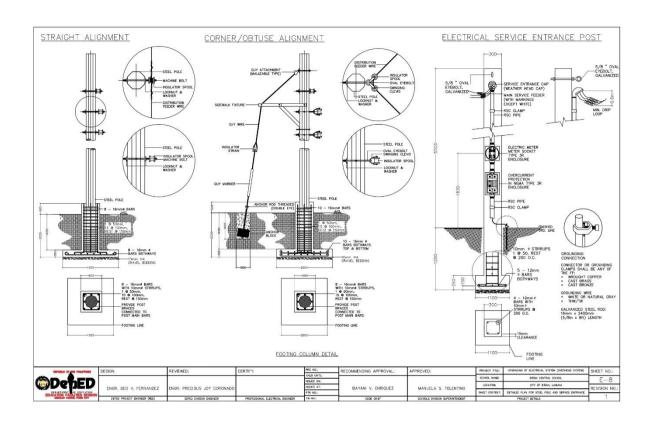
NOTE:
ORGUT PROTECTION FOR EACH BUILDING MAY DIFFER ON ACTUAL
THE COMPUTED LOADS ARE DERINED AND IN ACCORDANCE TO THE LATEST PHILIPPINE ELECTRICAL CODE
IN ORDER TO DETERMINE THE PROPER SIZE OF DISTRIBUTION FEEDER LINE AND ORGUIT PROTECTION.

	REPUBLIC OF THE PHARMES	DESIGN:	REVIEWED:	CERTIFY:		RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLES	PROJECT TITLE: UPGRADING OF ELECTRICAL SYSTEM (OVERHEAD SYSTEM)	
					VALID UNTL:			SCHOOL NAME:	BRAN CENTRAL SCHOOL	F-6
4	Denen	ENGR. DEO V. FERNANDEZ	FERNANDEZ ENGR. PRECIOUS JOY CORONADO		BAYANI V. ENRIQUEZ	MANUELA S. TOLENTINO	LOCATION:	DTY OF BRAN, LAGUNA	REVISION NO.:	
	EDUCATION FACILITIES DIVISION	ENGN. DEG V. FERNANDEZ			PTR NO.:	BATANE V. ENROQUEZ	SHEET OOF		DETAILED SCHEDULE OF LOADS MOP-3	NEWSKIN NO.:
	BEROLED AVENUE, PARRO CITY	DEPED PROJECT ENGINEER (REE)	DEPED DIVISION ENGINEER	PROFESSIONAL ELECTRICAL ENGINEER	TN NO.:	SCOO CHEF	SCHOOLS DIVISION SUPERINTENDENT		PROJECT DETAILS	1

Electrical Plans (Page 7 of 8)



Electrical Plans (Page 8 of 8)



Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

Dela Paz Main Elementary School Bill of Quantities (Part 1 of 1)

School I.D: 307934 Budget Allocation: 3,621,913. Region: IV-A Engineering and Administrative Overhead: 0 Division: BINAN CITY Approved Budget for the Contract: 3,621,913. COMPLETION OF SCHOOL CLINIC General Foreman Welder Carpenter Helper Mason Painter	School	: SOUTHVILLE 5A INTEGRATED NATIONAL HIGH SCHO	OOL		Date:								
Page	School I.D	: 307934			Budget Alloca				3,621,913.97				
Company Comp													
Part								CD	3,021,913.97				
Record R		P.			Minimum Re	quired Manpowe	er:						
		CONSTRUCTION OF SCHOOL CLINIC				reman							
BROF. LANGUNG MATCH. ALGONA Cont. Proceed Cont. Proced Cont. Proced Cont. Proced Cont. Cont. Proced Cont. Co					Helper		Mason		Painter				
BROF. LANGUNG MATCH. ALGONA Cont. Proceed Cont. Proced Cont. Proced Cont. Proced Cont. Cont. Proced Cont. Co	Location	5			Minimum Re	quired Equipme	nt:						
		BRGY, LANGKIWA BIÑAN CITY LAGUNA			Hand Tools		Welding Mach	ine					
Personal Content Personal Co		mai. miana, mai orri, maona			One-Bagger	r Mixer	Bar Cutter						
Personal Content Personal Co			0/2	(A)		Direc	t Cost	Adjusted	Adjusted				
Pacifishes for the Engineer Pacifishes for the Engineer Pacifishes for the Engineer Pacifishes Paci	Item No.	Description		Unit	Quantity		T						
Particle for the Engineer							A SECTION AND A SECTION ASSESSMENT						
A. 1 Tempera Practicate A. 1 Tempera Practicate A. 1 Tempera Practicate A. 1 Tempera Practicate B. 1 Tempera Billioneral B. 1 Tempera Billioneral B. 2 Tempera Billioneral B. 2 Tempera Billioneral B. 2 Tempera Billioneral B. 3 Tempera Billioneral B. 4 Tempera Billioneral B. 4 Tempera Billioneral B. 4 Tempera Billioneral B. 5 Tempera Billioneral B. 5 Tempera Billioneral B. 6 Tempera Billioneral B. 7 Tempera Billioneral B. 8 Tempera Billioner	(1)	(2)	(3)	(4)	(5)	(6)			(9)				
A.	A.	Facilities for the Engineer					(0) / (3)	(2) / (3)					
B.	A.1	Temporary Facilities		Month	4.00								
BF. 1 Depart Ribboard Beach 100				1.4	1.00								
SEPICAL Construction Safety and Hashin September													
C													
Description	C.	Mobilization and Demobilization											
1. 1. 1. 10. 2. 2. 2. 2. 2. 2. 2.				Ls	1.00								
1 18				sa.m	103.20								
1 6 Grew Badding Of 1 0 0 0 0 0 0 0 0 0													
1	1 (c)	Backfilling of Excavated Materials			21.00								
Ternste Control Works													
1.0 Sal Patentoning	1 (e)			cu m	61.92								
2,000	1 (f)			L	113.52								
Structural Concrete [Socium] Tile Beam; Column. Cut m 21.96	2.0000	Concreting Works (3000 psi)											
Suppended Silab, Order/ Beam Cum 1.00	2 (b)			cu m	14.06								
2 2	2 (c)			cu m	21.96								
2 (a) Ramp on Fill		Lean Concrete		cu m									
3 a Reinforcing Steal Bar Grade 40 kg 7,541.59				cu m	2.30				, .				
4,000 Second Se				len	7 5/11 50		4						
South Masonry Works				Ag	7,541.59								
Sign				sq.m	281.96								
Section Sect													
Faishing Works							-		×				
Sign	3 (0)			sq.m	70.40								
6 c Hollow Core Fluish Door		Plain Cement Plaster Finish		sq.m	204.87								
6													
Seg													
6 Frame Jambs, Sil, Head, Transoms, and Mullions													
17,000 Steel Works					12.00								
Total				Ls	1.00								
7 (c) Structural Steal Putitins				les	724 22								
Tele													
Total Metal Structure Accessories (Sag Rodis)	7 (e)				1.00								
7 (h) Metal Structure Accessories (Turn Buckle) pc 9.00													
To Metal Structure Accessories (Cross Bracing) Dec 9.00													
South Rose													
S Pre - painted Metal Sheets (Corrugated, Short Span Long Span, below 0.427 RMT sown 0.428 state of the state of				pc	5.50								
8 (e) Long Span, below 0.427 EMT above 0.427 EMT 5c, m 101.00 8 (e) Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls m 4.95 9 (a) Calling and Carpentry Works		Pre - painted Metal Sheets (Corrugated, Short Span/			101.00								
Second S	100,111.00	Long Span, below 0.427 BMT/ above 0.427 BMT		sq.m	101.00								
			1.0	m	4.95								
4 Smm Fiber Cement Board/ 4 Smm Marine Plywood/ 6 Omm that 4' x 8' Fiber Cement Board/ Marine Plywood/ 6 Omm that 4' x 8' Fiber Cement Board/ Marine Plywood/ 6 Omm that 4' x 8' Ordinary Plywood on Metal Frame Double Partition 10 (a) Conduit, Boxes and Fitting	9.0000	Ceiling and Carpentry Works											
Wood Frame Cailing		4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/		10000000									
45 mm / 60 mm thk 4 'x 8' Fiber Cement Board / Marine Plywood / 6.0 mm thk 4 'x 8' Ordinary Plywood on Metal Frame Double Partition				sq.m	85.50								
9 (h) Pywood/ 6.0 mm thk 4" x 8 Ordinary Plywood on Metal Frame Double Partition		4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine											
10 10 10 10 10 10 10 10	9 (h)	Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal		sq.m	21.11								
10 (a) Conduit, Boxes and Fitting													
10 (b) Wires and Wiring Devices Ls 1.00				Ls	1.00								
10 (c) Lighting Fixture													
11 0000 Plumbing Works Ls 1.00	10 (c)	Lighting Fixture/ Fixture			1.00								
11 (a) Waterline Works				Ls	1.00								
12.000 Sanitary Works Ls 1.00 12 (a) Sewer Line Works Ls 1.00 12 (b) Sanitary Plumbing Fixtures Ls 1.00 12 (c) Three Chamber Septic Vault Ls 1.00 13.0000 Painting Works				I.	1.00								
12 (a) Sewer Line Works				Lis	1.00								
12 (c) Three Chamber Septic Vault Ls 1.00	12 (a)	Sewer Line Works		Ls									
13 (a) Masonry Painting Sq. m 222.02	12 (b)		7 7										
13 (a) Masonry Painting				Ls	1.00								
13 (b) Wooden Painting sq.m 127.72 13 (c) Metal Painting sq.m 55.00 15.0000 Waterproofing 15 (a) Waterproofing Cement Base sq.m 9.00 14 0000 Tale Works 14 (a) Glazed Tiles and Trims sq.m 9.60 14 (b) Unglazed Tiles / Granite Tiles sq.m 67.00			0 0	50 m	222.02								
13 (c) Metal Painting													
15 0000	13 (c)								1				
14.000 Tile Works													
14 (a) Glazed Tiles and Trims				sq.m	9.00								
14 (b) Unglazed Tiles / Granite Tiles / Synthetic Granite Tiles Sq. m 67.00				sq.m	9.60								
0.00% Total Construction Cost			4		1200000000		/						
0.00% - Total Construction Cost			0 1	(A)									
			0.00%				Total Con	struction Cost	9				

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Lega	al Do	cuments
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;
Tecl	hnica	l Documents
	(b) S c	tatement of the prospective bidder of all its ongoing government and private ontracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
	(c)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; and
	(d)	Special PCAB License in case of Joint Ventures <u>and</u> registration for the type and cost of the contract to be bid; <u>and</u>
	(e)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission <u>or</u> original copy of Notarized Bid Securing Declaration; <u>and</u>
	(f)	 Project Requirements, which shall include the following: a. Organizational chart for the contract to be bid; b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; <u>and</u>
	(g)	Original duly signed Omnibus Sworn Statement (OSS) <u>and</u> if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.
	ancia (h)	<u>I Documents</u> The prospective bidder's computation of Net Financial Contracting Capacity
		(NFCC).

Class "B" Documents

(i)	If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR 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.
II. FINANC	IAL COMPONENT ENVELOPE
(j)	Original of duly signed and accomplished Financial Bid Form; and
Other do	cumentary requirements under RA No. 9184
	Original of duly signed Bid Prices in the Bill of Quantities; and
[] (1)	Duly accomplished Detailed Estimates Form, including a summary sheer indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and
(m)	
ADDITIONAL	<u>L REQUIREMENT</u>
	* Inspection Certificate (duly signed by the School Head or its authorized resentative)

