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Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 6565096
Procuring Entity CARLOS HILADO MEMORIAL STATE COLLEGE
Title Establishment of Applied Geographic Information System (GIS) Research Center (Labor and Materials) - Alijis Campus, Brgy. Alijis, Bacolod City, Negros Occidental
Area of Delivery Negros Occidental

Solicitation Number:	CHMSC 19-029-1017-I	Status	Pending
Trade Agreement:	Implementing Rules and Regulations	Associated Components	5
Procurement Mode:	Public Bidding	Bid Supplements	0
Classification:	Civil Works	Document Request List	0
Category:	Construction Projects	Date Published	18/10/2019
Approved Budget for the Contract:	PHP 2,673,390.02	Last Updated / Time	17/10/2019 18:04 PM
Delivery Period:	90 Day/s	Closing Date / Time	11/11/2019 09:00 AM
Client Agency:			
Contact Person:	Ma. Kristina Goylos Medalla Head, BAC Secretariat Mabini Street, Brgy Zone 1 Talisay City Negros Occidental Philippines 6115 63-34-7120420 Ext.142 63-34-7128404 bac.sec@chmsc.edu.ph		

Description

CARLOS HILADO MEMORIAL STATE COLLEGE
 BIDS AND AWARDS COMMITTEE
 Talisay City, Negros Occidental
 Telefax Nos. (034)712-8404

INVITATION TO BID
 FOR ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL
 CHMSC 19-029-1017-I

1. The Carlos Hilado Memorial State College, through the Corporate Budget for the Contract of 2019 approved by the governing Board, intends to apply the sum of TWO MILLION SIX HUNDRED SEVENTY-THREE THOUSAND THREE HUNDRED NINETY PESOS & 02/100 (Php 2,673,390.02) ONLY being the Approved Budget for the Contract (ABC) to payments under the contract for ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The Carlos Hilado Memorial State College now invites bids for ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL pursuant to the technical specifications indicated in the Terms of Reference to be provided. Completion of the Works is required within Ninety (90) calendar days upon receipt of Notice to Proceed. Bidders should have completed, within ten (10) years from the date of submission and receipt of bids, 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 the non-discretionary "pass/fail" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184, otherwise known as the "Government Procurement Reform Act".

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

4. Interested bidders may obtain further information from CARLOS HILADO MEMORIAL STATE COLLEGE and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M.

The BAC Secretariat
Brgy. Zone I, Mabini St.,
Talisay City, Negros Occidental

5. A complete set of Bidding Documents may be acquired by interested bidders on October 18 – November 11, 2019 (8:30A.M.) from the address 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 Five Thousand Pesos (Php 5,000.00) Only.

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

6. The CHMSC will hold a Pre-Bid conference on 9:30 A.M., October 25, 2019 at CHMSC Conference Room, 4/F Administration Bldg. Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat at the address below on or before 9:00 A.M., November 11, 2019, all bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be on 9:30 A.M., November 11, 2019 at CHMSC Conference Room, 4/F Administration Bldg. Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

8. The Carlos Hilado Memorial State College reserves the right to reject any and all bids, declare a failure of bidding, or not to award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

9. For further information, please refer to:

MA. KRISTINA G. MEDALLA
Head, BAC Secretariat
Carlos Hilado Memorial State College
Brgy. Zone 1, Mabini St.,
Talisay City, Negros Occidental
Telefax No. (034)712-8404

ROSALINDA S. TUVILLA, LLB
BAC Chairperson

Line Items

Item No.	Product/Service Name	Description	Quantity	UOM	Budget (PHP)
1	ONE (1) LOT	Establishment of Applied Geographic Information System (GIS) Research Center- Alijis Campus	1	Lot	2,673,390.02

Pre-bid Conference

Date	Time	Venue
25/10/2019	9:30:00 AM	CHMSC Conference Room, 4/F Administration Bldg. Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental

10/17/2019

printableBidNoticeAbstract

Created by

Rowena De la Vida Prado

Date Created

17/10/2019

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CARLOS HILADO MEMORIAL STATE COLLEGE
BIDS AND AWARDS COMMITTEE
Talisay City, Negros Occidental
Telefax Nos. (034)712-8404

INVITATION TO BID
FOR ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL
CHMSC 19-029-1017-I

1. The *Carlos Hilado Memorial State College*, through the *Corporate Budget for the Contract of 2019 approved by the governing Board*, intends to apply the sum of **TWO MILLION SIX HUNDRED SEVENTY-THREE THOUSAND THREE HUNDRED NINETY PESOS & 02/100 (Php 2,673,390.02) ONLY** being the Approved Budget for the Contract (ABC) to payments under the contract for **ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The *Carlos Hilado Memorial State College* now invites bids for **ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER (LABOR AND MATERIALS) – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL** pursuant to the technical specifications indicated in the Terms of Reference to be provided. Completion of the Works is required within **Ninety (90) calendar days upon receipt of Notice to Proceed**. Bidders should have completed, within ten (10) years from the date of submission and receipt of bids, 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 the non-discretionary “pass/fail” criterion as specified in the 2016, Revised Implementing Rules and Regulations (IRR) of Republic Act 9184, otherwise known as the “Government Procurement Reform Act”.

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

4. Interested bidders may obtain further information from **CARLOS HILADO MEMORIAL STATE COLLEGE** and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M.

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

6. The CHMSC will hold a **Pre-Bid conference** on **9:30 A.M., October 25, 2019** at **CHMSC Conference Room, 4/F Administration Bldg. Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental**, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat at the address below on or before **9:00 A.M., November 11, 2019**, all bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 18**.

Bid opening shall be on **9:30 A.M., November 11, 2019** at **CHMSC Conference Room, 4/F Administration Bldg. Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental**. Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address below. Late bids shall not be accepted.

8. The Carlos Hilado Memorial State College reserves the right to reject any and all bids, declare a failure of bidding, or not to award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

9. For further information, please refer to:

MA. KRISTINA G. MEDALLA
Head, BAC Secretariat
Carlos Hilado Memorial State College
Brgy. Zone I, Mabini St.,
Talisay City, Negros Occidental
Telefax No. (034)712-8404

RECEIVED
BY: [Signature] DATE: OCT 18 2019
OFFICE OF THE BAC SECRETARIAT



Section III. Bid Data Sheet

Notes on the Bid Data Sheet

This Section is intended to assist the CHMSC in providing the specific information in relation to corresponding clauses in the ITB included in Section II, and has to be prepared for each specific procurement.

The CHMSC should specify in the BDS information and requirements specific to the circumstances of the CHMSC, the processing of the procurement, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the Bids. In preparing this Section, the following aspects should be checked:

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

Bid Data Sheet

ITB Clause	
1.1	<p>The Procuring Entity is CARLOS HILADO MEMORIAL STATE COLLEGE.</p> <p>The name of the Contract is ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL.</p> <p>The identification number of the Contract is: 6565096/CHMSC 19-029-1017-1</p>
2	<p>The Funding Source is:</p> <p>The Government of the Philippines (GoP) through the 2019 Corporate Budget of the College approved by the governing Board, in the amount of TWO MILLION SIX HUNDRED SEVENTY-THREE THOUSAND THREE HUNDRED NINETY PESOS & 02/100 (Php 2,673,390.02) ONLY.</p> <p>The name of the Project is: ESTABLISHMENT OF APPLIED GEOGRAPHIC INFORMATION SYSTEM (GIS) RESEARCH CENTER – ALIJIS CAMPUS, BRGY. ALIJIS, BACOLOD CITY, NEGROS OCCIDENTAL.</p>
3.1	No further instructions.
5.1	No further instructions.
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4 (a)	No further instructions.
5.4(b)	For this purpose, similar contracts shall refer to Building (vertical building), and completed within the period stated in the Invitation to Bid.
8.1	<p>“Subcontracting is allowed.”</p> <p>The following works may be subcontracted:</p> <ol style="list-style-type: none"> 1. Mechanical System and Fire Protection 2. Electrical Works, Fire Alarm System

Bidders shall submit all the required documents for all the bidders to employ for infrastructure projects specified in

8.2 The prospective subcontractors, it Clause 12

reference for this Project on:

The Procuring Entity will hold a pre-bid conference

	DATE: October 25, 2019 TIME: 9:30 A.M. VENUE: CHMSC Conference Room, 4/F Administration Building, Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental														
10.1	The Procuring Entity's address is: CARLOS HILADO MEMORIAL STATE COLLEGE Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental ROSALINDA S. TUVILLA, LLB BAC Chairperson Tel. No. (034) 712-8404 chmsc_bacsec@yahoo.com														
10.4	No further instructions.														
12.1	In the submission of bids, the first envelope (Technical Proposal) shall contain all the required documents for infrastructure projects under Section 25.2(b) of the IRR of R.A. 9184 and the following additional documents: <ol style="list-style-type: none"> 1. Construction Methods; 2. List of construction personnel, to be assigned to the contract to be bid, with their complete qualification and experience data and; 3. Value engineering analysis of construction method. 														
12.1(a)(iii)	PCAB Registration/PCAB License SMALL B (up to 15M)														
12.1(b)(ii.2)	The minimum work experience requirements for key personnel are the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Key Personnel</th> <th style="width: 40%;">General Experience</th> <th style="width: 30%;">Relevant Experience (years)</th> </tr> </thead> <tbody> <tr> <td>1. Project Engineer</td> <td>Registered Civil Engineer</td> <td>5</td> </tr> <tr> <td>2. Foreman</td> <td>High School</td> <td>5</td> </tr> <tr> <td>3. Construction Safety and Health Personnel</td> <td>College Graduate</td> <td>3</td> </tr> </tbody> </table>			Key Personnel	General Experience	Relevant Experience (years)	1. Project Engineer	Registered Civil Engineer	5	2. Foreman	High School	5	3. Construction Safety and Health Personnel	College Graduate	3
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1. Project Engineer	Registered Civil Engineer	5													
2. Foreman	High School	5													
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12.1(b)(iii.3)	The minimum major equipment requirements are the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"><u>Equipment</u></th> <th style="width: 20%;"><u>Capacity</u></th> <th style="width: 40%;"><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>									
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	<ol style="list-style-type: none"> 1. Cutting Outfit 0.80 cu.m. 1 2. Bar Bender 10 cu.m. 1 3. Bar Cutter 1 4. Welding Machine 1 5. Service Vehicle 1 6. Grinder 1
13.1	<p>The Bidder shall:</p> <ol style="list-style-type: none"> 1. Fill in the prices for all items of the works described in the Summary of Bids. 2. Prepare the Detailed Unit Price Analysis (DUPA) to cover all the items in the works which upon the judgement of the Contractor are necessary for the completion of the scope of works defined by the Drawings and Technical Specifications. 3. The Bidder shall be responsible that all the items described on the drawings. Contractor shall not claim for payment of works on items specified on the drawings but not included on the DUPA unless approved in writing by the Procuring Entity. 4. The Bidder must ensure that the total price included the Summary of Bids prescribed in Clause 15.2.1 shall not be more than the allowable Approved Budget for the Contract (ABC). In the event that the said total calculated cost on the Summary of Bids shall be more than the ABC, the bid shall be automatically rejected.
13.1(b)	<p>This shall include all of the following documents:</p> <ol style="list-style-type: none"> 1) Bid prices in the Bill of Quantities; 2) Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and 3) Cash flow by quarter or payment schedule.
13.2	<p>The Approved Budget for the Contract (ABC) is TWO MILLION SIX HUNDRED SEVENTY-THREE THOUSAND THREE HUNDRED NINETY PESOS & 02/100 (Php 2,673,390.02) ONLY.</p> <p>Any bid with a financial component exceeding this amount shall not be accepted.</p>
14.2	No further instructions.
15.4	No further instructions.
16.1	The bid prices shall be quoted in Philippine Pesos.

16.3	No further instructions.
17.1	Bids will be valid until March 10, 2020 (120 calendar days upon the date of bid opening).
18.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> 1. The amount of not less than Php 53,467.80 (2% of ABC), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; 2. The amount of not less than Php 133,669.50 (5% of ABC) if bid security is in Surety Bond.
18.2	The bid security shall be valid until March 10, 2020 (120 calendar days upon the date of bid opening).
20.3	Each Bidder shall submit one (1) original and two (2) copies of the first and second components of its bid. Hard Copy and Soft Copy in PDF Format of the same documents.
21	<p>The address for submission of bids is:</p> <p>The Bids and Awards Committee Carlos Hilado Memorial State College Brgy. Zone 1, Mabini St. Talisay City, Negros Occidental</p> <p>The deadline for submission of bids is:</p> <p>DATE: November 11, 2019 TIME: 9:00 A.M.</p>
24.1	<p>The place of bid opening is:</p> <p>The Bids and Awards Committee Carlos Hilado Memorial State College Brgy. Zone 1, Mabini St. Talisay City, Negros Occidental</p> <p>The date and time of bid opening is:</p> <p>DATE: November 11, 2019 TIME: 9:30 A.M.</p>
24.2	No further instructions.
24.3	No further instructions.

27.3	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
27.4	No further instructions.
28.2	<p>Bidders have the option to submit manually filed tax returns or tax returns filed through the Electronic Filing and Payments System.</p> <p><i>Note: The latest income and business tax returns are those within the last six (6) months preceding the date of bid submission.</i></p>
31.4(f)	<p>Additional contract documents relevant to the Project:</p> <ol style="list-style-type: none"> 1) Construction Schedule/GANTT Chart (MS Project Format) & 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 7) Statement of Cash Flow & Payment Schedule 8) Soft Copy of all submitted documents in PDF File (submit in CD) 9) Organizational Chart

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the Section III. Bid Data Sheet, the clauses in this Section are intended to assist the CHMSC in providing contract-specific information in relation to corresponding clauses in the GCC.

The provisions of this Section complement the GCC, specifying contractual requirements linked to the special circumstances of the CHMSC, Philippines, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- (a) Information that complements provisions of Section IV. General Conditions of Contract must be incorporated.
- (b) Amendments and/or supplements to provisions of Section IV. General Conditions of Contract, as necessitated by the circumstances of the specific project, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of Section IV. General Conditions of Contract should be incorporated herein.

Special Conditions of Contract

GCC Clause	
1.17	The Intended Completion Date is 90 calendar days upon receipt of the Notice to Proceed <i>NOTE: The contract duration shall be reckoned from the start date</i>

The non-availability of any of the key personnel for construction from the project site will be subject to penalty/deduction from the next billing:

No.	Key Personnel	Amount of Deduction per Day of Non-appearance
1	Project Engineer	Php1,000.00
2	Foreman	Php700.00
3	Construction Safety & Health Personnel	Php700.00

The following condition will be ground for withholding of payment for the next billing.

1. Poor Supervision and inaction of the concerned contractor to the items and points included on Project Manager's Instruction (PMI's), Site Observation Reports (SOR's), Official Letters and other form of instructions and reports related to any observed non-conformity and non-compliance to the relevant clauses of the contract and the technical specifications – Php1,000.00/point.
2. Prescribed (PPE's) Personal Protective Equipment
 - 2.a No safety hats – Php500.00/worker/day of occurrence
 - 2.b No safety shoes – Php500.00/worker/day of occurrence
 - 2.c Non-availability or improper use of the body harness and other life-saving equipment on site – Php500.00/worker/day of occurrence.
 - 2.d Cigarette butts found inside the site premises – Php100.00/butts.
3. Implementation of critical works without permit such as concrete pouring, installation of devices, wires and conduits without prior samples and approval and other forms of work – Php10,000.00/point.
4. Non-submission of reports such as but not limited to, Daily Reports and Look Ahead Schedules– Php. 1,000.00/day of occurrence and delay.
5. Non-submission of brochures and samples of materials prior to installation at site and installation of unapproved materials – Php. 10,000/point.
6. Non-availability of pledge equipment and manpower at site. – Php. 1,000.00/day of occurrence.

The Contractor should show proof of remittances to SSS, BIR, Philhealth and other government agencies for any of the deductions being imposed from its personnel.

The non-availability of any of the key personnel for construction from the project site will be subject to penalty/deduction from the next billing:

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	<i>NOTE: The names of the Key Personnel and their designation shall be filled out by winning contractor prior to contract signing.</i>
7.4(c)	No further instructions.
7.7	No further instructions.
8.1	No further instructions.
10	The site investigation reports are:
12.3	No further instructions.
12.5	In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.
13	All partners to the joint venture shall be jointly and severally liable to the Procuring Entity.
18.3(h)(i)	No further instructions.
21.2	The Arbiter is the Court with appropriate jurisdiction to carry out alternative dispute resolution proceedings to be resorted to only upon exhaustion of remedies under the procurement manuals, rules and regulations.
29.1	No dayworks are applicable to the contract.
31.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within fifteen (15) days of delivery of the <i>Notice of Award</i>
31.3	The period of Program of Work updates is every fifteen (15) days. The amount to be withheld for late submission of an updated Program of Work is FIFTEEN THOUSAND PESOS (Php15,000.00) only. Other relevant rules and regulations as well as communication protocol shall be discussed during the pre-bid conference and shall form part of the contract. Copy of which given to the contractor on the date for the conduct of the pre-construction conference.
34.3	The Funding Source is the Government of the Philippines.
39.1	The amount of the advance payment is fifteen (15%) percent of the Contract Price, representing mobilization fund. The full mobilization fund shall be recouped from the regular billing of the contractor up to and until 50% of the contract amount are paid to the contractor.
40.1	Materials and equipment delivered on the site but not completely put in place shall be included for payment, in so far as it complies with

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40.1	Materials and equipment delivered on the site but not completely put in place shall be included for payment, in so far as it complies with

	applicable standards and passed the appropriate tests at authorized testing centers.
51.1	<p>The date by which operating and maintenance manuals are required during the commissioning of each of the equipment to be installed by the contractor.</p> <p>The date by which "as built" drawings are required will be before the processing of the occupancy permit or fifteen (15) calendar days from the final handing over whichever comes earlier.</p>
51.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is TWENTY-FIVE THOUSAND PESOS (Php25,000.00) ONLY for each requirement.



Republic of the Philippines
**CARLOS HILADO MEMORIAL
 STATE COLLEGE**
 Negros Occidental

PROJECT TITLE:
 ESTABLISHMENT OF APPLIED
 GEOGRAPHICAL INFORMATION SYSTEM
 (GIS) RESEARCH CENTER

ENDORSED BY:

 EDWINA H. BUJALA, Ph.D.
 CAMPUS DIRECTOR

CHECKED BY:

 ARGENIO NICOLAS CABRERERA, Ph.D.
 DIRECTOR

RECOMMENDING APPROVAL:

 ANTONIO L. DEZA, Ph.D., Ph.D.
 PRESIDENT OF ADMINISTRATION

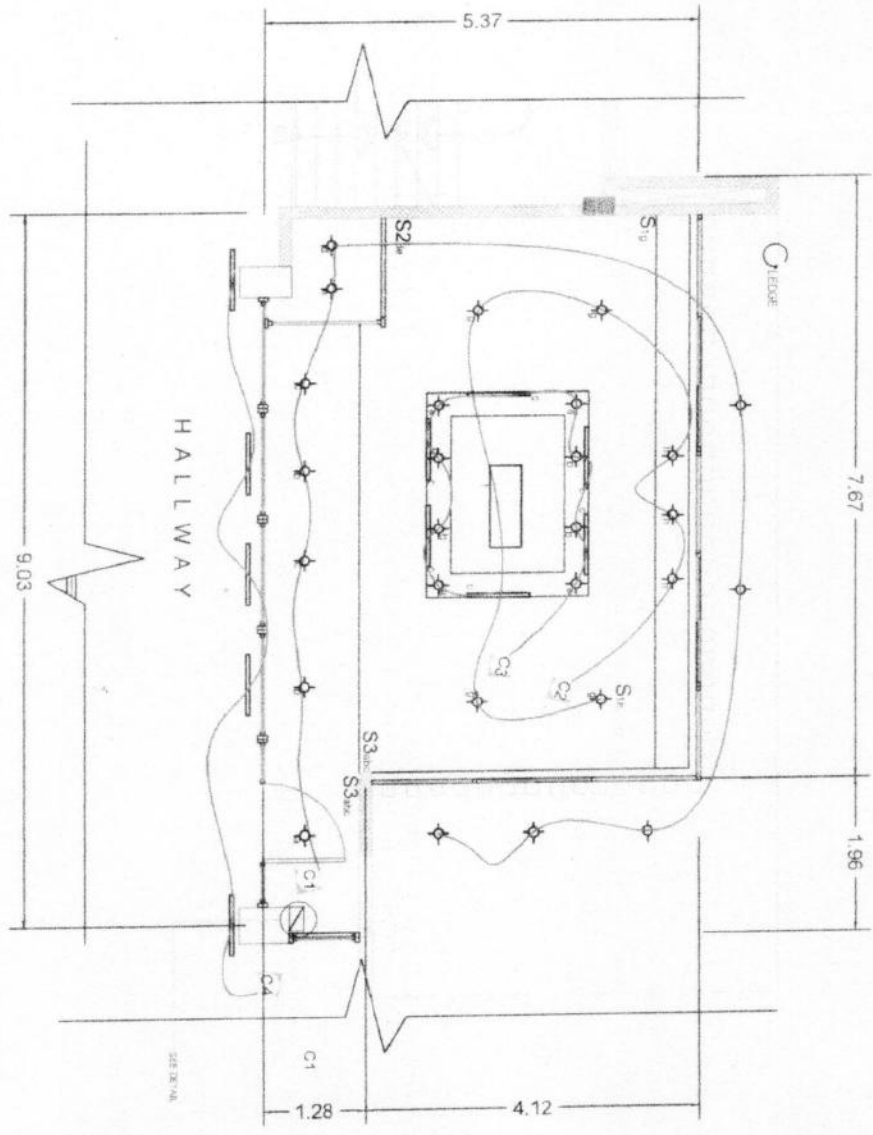
APPROVED:

 RENATO M. SOROLLA, Ph.D.
 PRESIDENT

DESIGNED BY:

 L. ALVAREZ
 ELECTRICAL ENGINEER

CLO ELECTRICAL LAYOUT PLAN
 SCALE 1:30



- LEGEND:**
- ◆ CEILING LIGHT OUTLET
 - 18 LED TUBE 18 WATTS
 - ▭ LED CEILING CHANDELIER LIGHTING (40 WATTS)
 - CONVENIENCE OUTLET
 - ⊕ AIR CONDITIONER OUTLET
 - REF REFRIGERATOR OUTLET
 - ☐ PANEL BOARD
 - CIRCUIT LINE
 - ⚡ SINGLE POLE SWITCH
 - ⚡ 2 GANG SWITCH
 - ⚡ 3 GANG SWITCH
 - ⚡ CIRCUIT HOME RUN
 - ⚡ SERVICE ENTRANCE
 - (M) KILOWATT HOUR METER
 - (SD) SMOKE DETECTOR
 - (CB) CIRCUIT BREAKER
 - (EL) EMERGENCY LIGHT OUTLET
 - (FP) FIRE ALARM
 - (MP) MANUAL PULL
 - (BS) BELL WITH STROBE LIGHT



Logo: 12x16
CARLOS HILADO MEMORIAL STATE COLLEGE
 Negros Occidental

PROJECT TITLE
 ESTABLISHMENT OF APPLIED GEOSPATIAL INFORMATION SYSTEM (GIS) RESEARCH CENTER

ENDORSED BY:

 EDWYN H. BERNAL, Ph.D.
 CHAIRMAN, DIRECTOR

CHECKED BY:

 ARMAND T. SOBERRERA, Ph.D.
 ASST. CHAIRMAN, DIRECTOR

RECOMMENDING APPROVAL:

 RENATO M. SOBOLLA, Ph.D.
 VICE PRESIDENT FOR ADMINISTRATION

APPROVED:

 FERNANDO V. PINEDA, Ph.D.
 ASST. CHAIRMAN, DIRECTOR

PROJECT NO.: 100-100-100-100
DATE: 10/10/2010

E 2

CO ELECTRICAL LAYOUT PLAN

SCALE 1:30



- LEGEND:**
- ◆ CEILING LIGHT OUTLET
 - 18 LED TUBE 18 WATTS
 - LED CEILING CHANDLIER LIGHTING (40 WATTS)
 - CONVENIENCE OUTLET
 - AC AIR CONDITIONER OUTLET
 - REF REFRIGERATOR OUTLET
 - PS PANEL BOARD
 - CIRCUIT LINE
 - S1 SINGLE POLE SWITCH
 - S2 2 GANG SWITCH
 - S3 3 GANG SWITCH
 - ⚡ CIRCUIT HOKE RUN
 - ⚡ SERVICE ENTRANCE
 - M KILOWATT HOUR METER
 - SD SMOKE DETECTOR
 - CB CIRCUIT BREAKER
 - EL EMERGENCY LIGHT OUTLET
 - FA FIRE ALARM
 - MP MANUAL PULL
 - ⚡ BELL WITH STROBE LIGHT

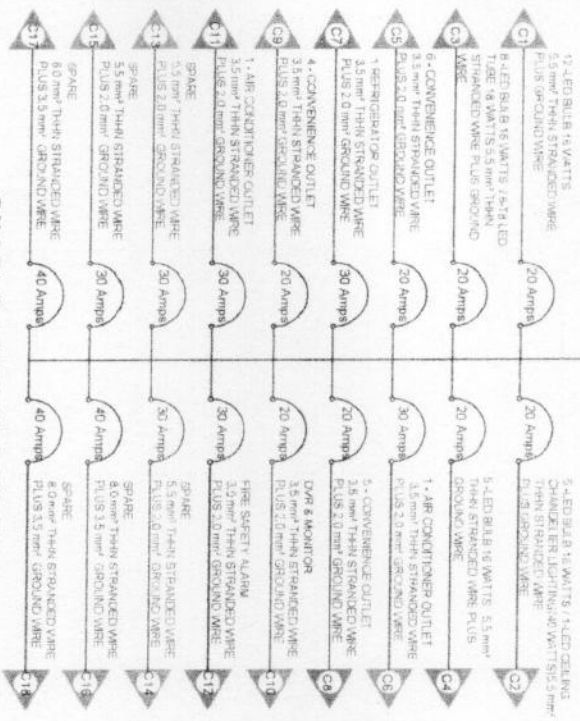
ELECTRICAL SPECIFICATIONS

1. ALL ELECTRICAL WORKS AND INSTALLATION SHALL CONFORM WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE REPUBLIC ACT NO. 7920, RULES AND REGULATIONS OF THE NATIONAL AND LOCAL CIVIL AUTHORITIES AND IN CONSONANT WITH THE UTILITY COMPANY.
2. THE ELECTRICAL INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF THE DULY LICENSED ELECTRICAL ENGINEER AS PROVIDED IN THE RA NO. 7920.
3. THE MAIN SERVICE ENTRANCE CONDUCTOR SHALL BE 32 mm² THIN COPPER WIRE IN PLUS 8.00 mm² THIN GROUND WIRE 1/2 DIA. CONDUIT.
4. THE MAIN CIRCUIT BREAKER SHALL BE 80 AMPERES, MOLDED CASE CIRCUIT BREAKER 220 VOLTS, 3 POLES AS INDICATED IN THE SCHEDULE OF LOADS AND SINGLE LINE DIAGRAM. EACH CIRCUIT PROTECTION SHALL HAVE A CIRCUIT BREAKER WITH 25 KAIC. THE AMPACITY RATING IS INDICATED IN THE SCHEDULE OF LOADS.
5. THE SIDES OF THE BRANCHES CONDUCTORS SHALL BE IN ACCORDANCE WITH THE TABULATED SCHEDULE OF LOADS AND PLACED INSIDE A RIGID STEEL CONDUIT. ALL WIRES SHALL BE THW OR THHN.
6. REVISIONS, ALTERATION IN THE DESIGN SHALL BE DONE WITH THE PRIOR APPROVAL OF THE DESIGNING ELECTRICAL ENGINEER AND THE OWNER. ANY LOAD NOT FOUND IN THE ELECTRICAL PLAN HAS NOT BEEN CONSIDERED IN THE DESIGN.
7. ALL MATERIALS SHALL BE BRAND NEW AND UL LISTED.

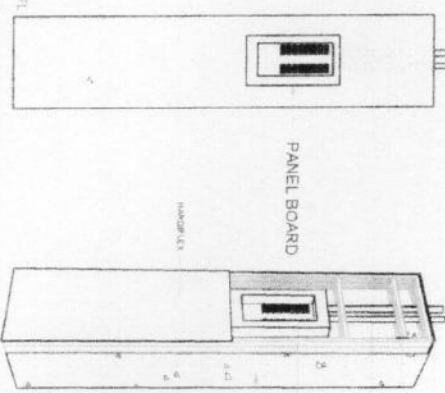
M

USE 3-25mm² THIN PLUS 8.0mm² THIN GROUND WIRE IN 1" PVC PIPE INSTALLED ABOVE CEILING

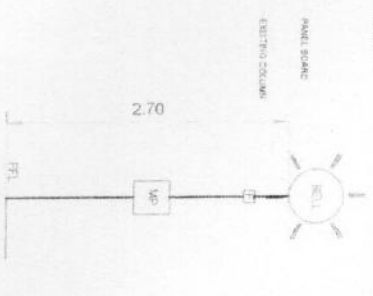
100 AIT 150 AF 3P 220V BOLT ON TYPE IN NEMA POWDER COATED PANEL BOARD



CIRCUIT BREAKING MOUNTING DETAIL



MANUAL PULL STATION W/ BELL & STROBE LIGHT



LEGEND:

- ◆ CEILING LIGHT OUTLET
- ◆ LED TUBE 14 WATTS
- ◆ LED CEILING CHANDELIER LIGHTING 40 WATTS
- CONVENIENCE OUTLET
- 1-AMP CONVENTOR OUTLET
- REFRIGERATOR OUTLET
- PANEL BOARD
- SINGLE POLE SWITCH
- 2-POLE SWITCH
- 3-POLE SWITCH
- CIRCUIT BREAKER
- SERVICE ENTRANCE
- M METER
- SMOKE DETECTOR
- CIRCUIT BREAKER
- EMERGENCY LIGHT OUTLET
- MANUAL PULL
- BELL WITH STROBE LIGHT



<p>Carlos Hilado Memorial State College Negros Occidental</p>	<p>PROJECT TITLE: ESTABLISHMENT OF APPLIED GEOSPATIAL INFORMATION SYSTEM (GIS) RESEARCH CENTER</p> <p>ENDORSED BY: <i>[Signature]</i> EDWIN H. BURDA, PH.D. PROJECT COORDINATOR / ASSIST. CAMPUS EXECUTIVE DIRECTOR</p>	<p>CHECKED BY: <i>[Signature]</i> JERICO MENDOZA, SCORNERPENA, PH.D. DIRECTOR</p>	<p>RECOMMENDING APPROVAL: <i>[Signature]</i> RICARDO M. SOROLLA, PH.D. VICE PRESIDENT FOR ADMINISTRATION</p>	<p>APPROVED: <i>[Signature]</i> RICARDO M. SOROLLA, PH.D. VICE PRESIDENT FOR ADMINISTRATION</p>	<p>DATE: _____</p>
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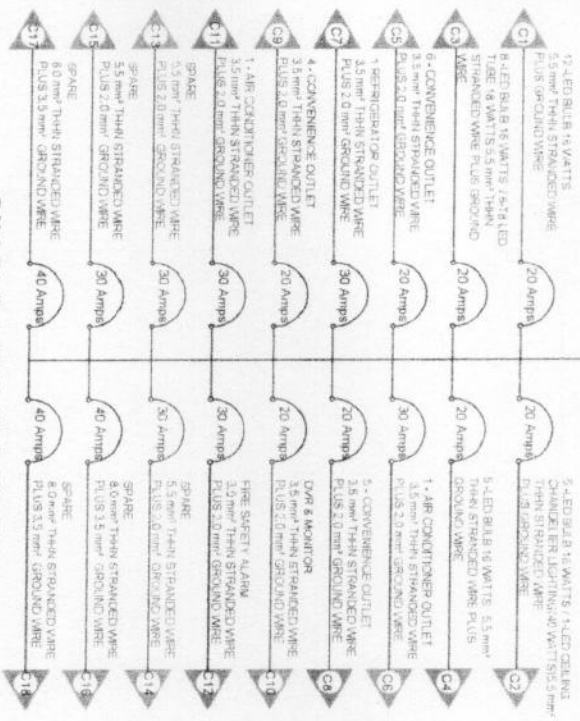
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7. ALL MATERIALS SHALL BE BRAND NEW AND UL LISTED.

M

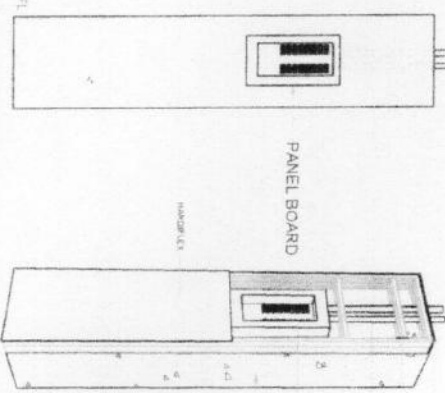
USE 3-25mm² THIN PLUS 8.0mm² THIN GROUND WIRE IN 1" PVC PIPE INSTALLED ABOVE CEILING

100 AIT 150 AF 3P 220V BOLT ON TYPE IN NEMA POWDER COATED PANEL BOARD



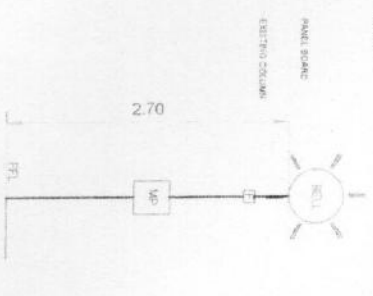
SINGLE LINE DIAGRAM

CIRCUIT BREAKING MOUNTING DETAIL



PERSPECTIVE

MANUAL PULL STATION W/ BELL & STROBE LIGHT



LEGEND:

- ◆ CEILING LIGHT OUTLET
- ◆ 15 LED TUBE 14 WATTS
- ◆ LED CEILING CHAMBER LIGHTING (40 WATTS)
- CONVENIENCE OUTLET
- AIR CONDITIONER OUTLET
- REFRIGERATOR OUTLET
- PANEL BOARD
- SINGLE POLE SWITCH
- 2 GANG SWITCH
- 3 GANG SWITCH
- CIRCUIT BREAKER
- SERVICE ENTRANCE
- M METER
- SMOKE DETECTOR
- CIRCUIT BREAKER
- EMERGENCY LIGHT OUTLET
- MANUAL PULL
- BELL WITH STROBE LIGHT



PROJECT TITLE: ESTABLISHMENT OF APPLIED GEOSPATIAL INFORMATION SYSTEM (GIS) RESEARCH CENTER
ENDORSED BY: EDWIN H. BURDA, PH.D.
PROJECT COORDINATOR: ALAN CARMELO BACARDI, CITY PLANNING DIRECTOR

CHECKED BY: JERICO MENDOZA, SCORNERPENA, PH.D.
RECOMMENDING APPROVAL: MAURICIO V. CANA, JR., PH.D.
APPROVED: RENATO M. SOROLLA, PH.D.

DATE: 10/10/2023

PROJECT NO.: 100-2023-001

DATE: 10/10/2023
PROJECT NO.: 100-2023-001
3



State of the Philippines
CARLOS HILADO MEMORIAL STATE COLLEGE
 Negros Occidental

PROJECT TITLE: ESTABLISHMENT OF APPLIED GEOMATICAL INFORMATION SYSTEM (GIS) RESEARCH CENTER
 PROJECT LOCATION: ALAB CAMPUS, BACOLOD CITY
 ENCLOSED BY: EDWIN H. BUONIA, Ph.D.
 CHAIRMAN/DIRECTOR

CHECKED BY: [Signature]
 FERRICO V. GARCIA, Ph.D.
 DIRECTOR FOR ADMINISTRATION

RECOMMENDING APPROVAL: [Signature]
 ANTONIO L. ORSOLA, Ph.D.
 VICE-PRESIDENT FOR ADMINISTRATION

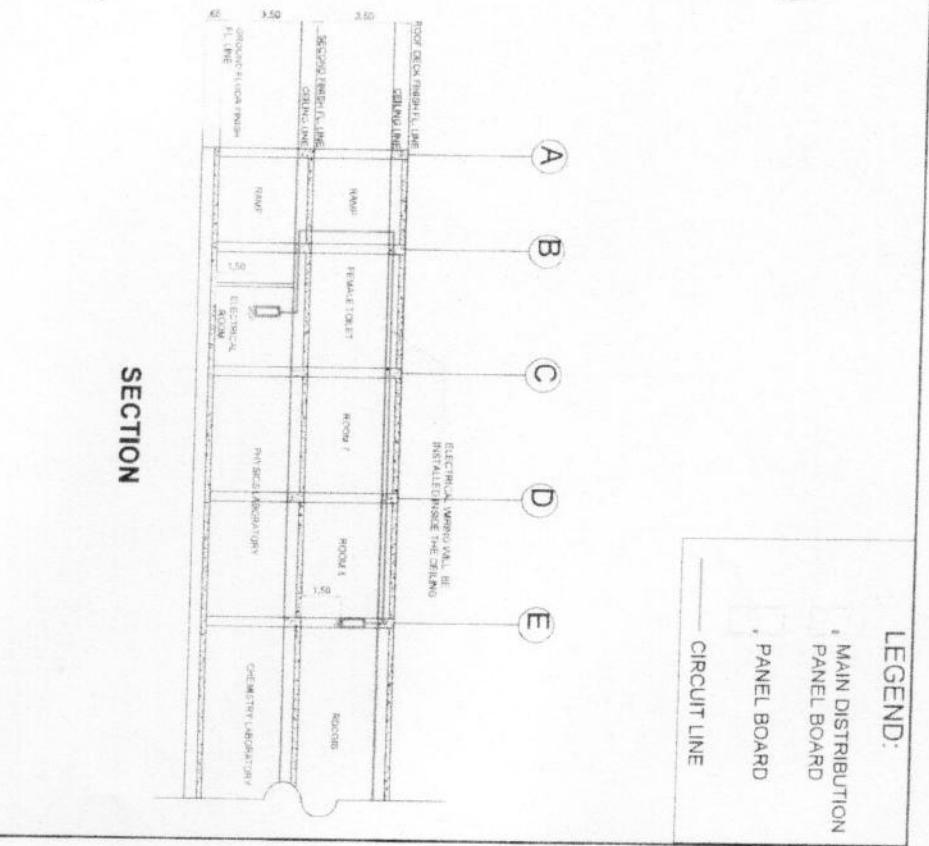
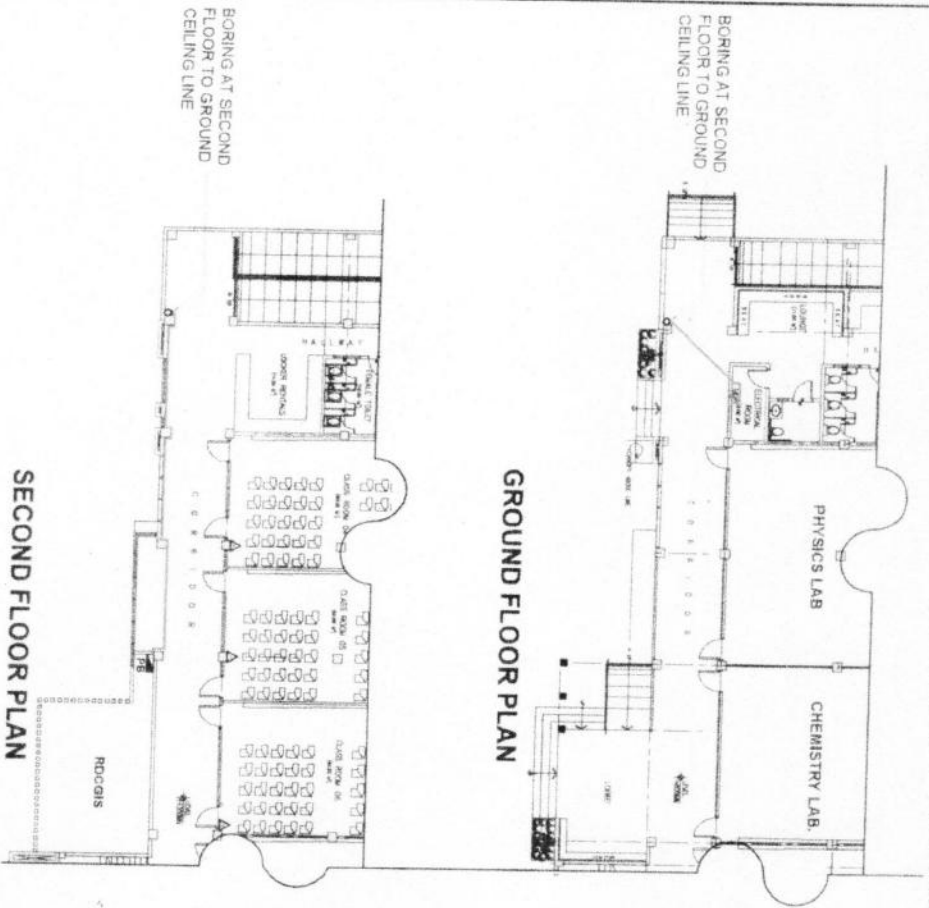
APPROVED: [Signature]
 REVATI M. SOROLLA, Ph.D.
 DEAN

PREPARED BY: [Signature]
 FERRICO V. GARCIA, Ph.D.
 DIRECTOR FOR ADMINISTRATION

DATE: [Blank]
 TIME: [Blank]
 PLACE: [Blank]

PROJECT NO. **E 4**

SCHEDULE OF LOADS											
CKT NO.	LOAD DESCRIPTION	DEVICES	WATTS	VOLTAGE	AB AMPS	BA AMPS	CA AMPS	3Φ	CIRCUIT PROTECTION	CONDUCTOR SIZE	CONDUIT SIZE
C1	LED BULB 16 WATTS	12	240	220	1.09				20 AMPS	5.5 mm ² THW WIRE	20 mmØ PVC PIPE
C2	LED BULB 16 WATTS	6	190	220	0.73				20 AMPS	6.5 mm ² THW WIRE	20 mmØ PVC PIPE
C3	LED BULB 16 WATTS	14	280	220		1.27			20 AMPS	5.5 mm ² THW WIRE	20 mmØ PVC PIPE
C4	LED BULB 18 WATTS	5	100	220		0.45			20 AMPS	3.5 mm ² THW WIRE	20 mmØ PVC PIPE
C5	CONVENIENCE OUTLET	6	2160	220		9.62			20 AMPS	3.5 mm ² THW WIRE	20 mmØ PVC PIPE
C6	AIRCONDITIONER OUTLET	1	1500	220			6.82		30 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C7	REFRIGERATOR OUTLET	1	700	220		3.18			30 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C8	CONVENIENCE OUTLET	5	1800	220		8.18			20 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C9	CONVENIENCE OUTLET	4	1440	220			6.56		20 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C10	DVR AND MONITOR	1	1000	220		4.55			20 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C11	AIRCONDITIONER OUTLET	1	1500	220		6.82			30 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C12	FIRE SAFETY ALARM	1	1000	220			4.55		30 AMPS	3.5 mm ² THW WIRE +2.0 mm ² GROUND WIRE	20 mmØ PVC PIPE
C13	SPARE		2000	220		9.10			30 AMPS		
C14	SPARE		2000	220		9.10			30 AMPS		
C15	SPARE		2000	220			9.10		30 AMPS		
C16	SPARE		4000	220		18.20			40 AMPS		
C17	SPARE		4000	220			18.20		40 AMPS		
C18	SPARE		4000	220		18.20			40 AMPS		
TOTAL & BIGGEST LOAD: 1731.35					45.03	45.56	45.21				
TOTAL = 4669.179 x 1.25											
Work = 98.74 Amp. use 100 Amp											



- LEGEND:
- MAIN DISTRIBUTION PANEL BOARD
 - PANEL BOARD
 - CIRCUIT LINE

ELECTRICAL MAIN POWER LAYOUT PLAN

SCALE 1:30



Carlos Hilado Memorial
STATE COLLEGE
Negros Occidental

PROJECT TITLE
ESTABLISHMENT OF APPLIED
GEOGRAPHICAL INFORMATION SYSTEM
(GIS) RESEARCH CENTER

ENDORSED BY:
EDWIN H. BUONA, Ph.D.
CAMPUS DIRECTOR

CHECKED BY:
FERRIS MENDOZA, Ph.D.
DIRECTOR OF GIS

RECOMMENDING APPROVAL:
ANTONIO L. DEBAYLA, Ph.D., TR.
VICE PRESIDENT FOR ADMINISTRATIVE AFFAIRS

APPROVED:
BENJAMIN SOROLLIA, Ph.D.
VICE PRESIDENT FOR ADMINISTRATION

REVIEWED BY:
FERRIS MENDOZA, Ph.D.
DIRECTOR OF GIS

DATE: 10/15/2010
DRAWN BY: [Signature]
E 5



Division of Information Systems
CARLOS HILADO MEMORIAL STATE COLLEGE
 Higher Education

PROJECT TITLE:
 ESTABLISHMENT OF APPLIED GEOGRAPHICAL INFORMATION SYSTEM (GIS) RESEARCH CENTER

ENDORSED BY:
[Signature]
 EDWIN H. BUQUIA, Ph.D.
 CAMPUS DIRECTOR

CHECKED BY:
[Signature]
 FREDRICK M. S. COBARRERA, Ph.D.
 DIRECTOR, GIS

RECOMMENDING APPROVAL:
[Signature]
 ALFONSO DEBASA, Ph.D., TR.
 CHIEF, RESEARCH CENTER FOR ADMINISTRATIVE SERVICES

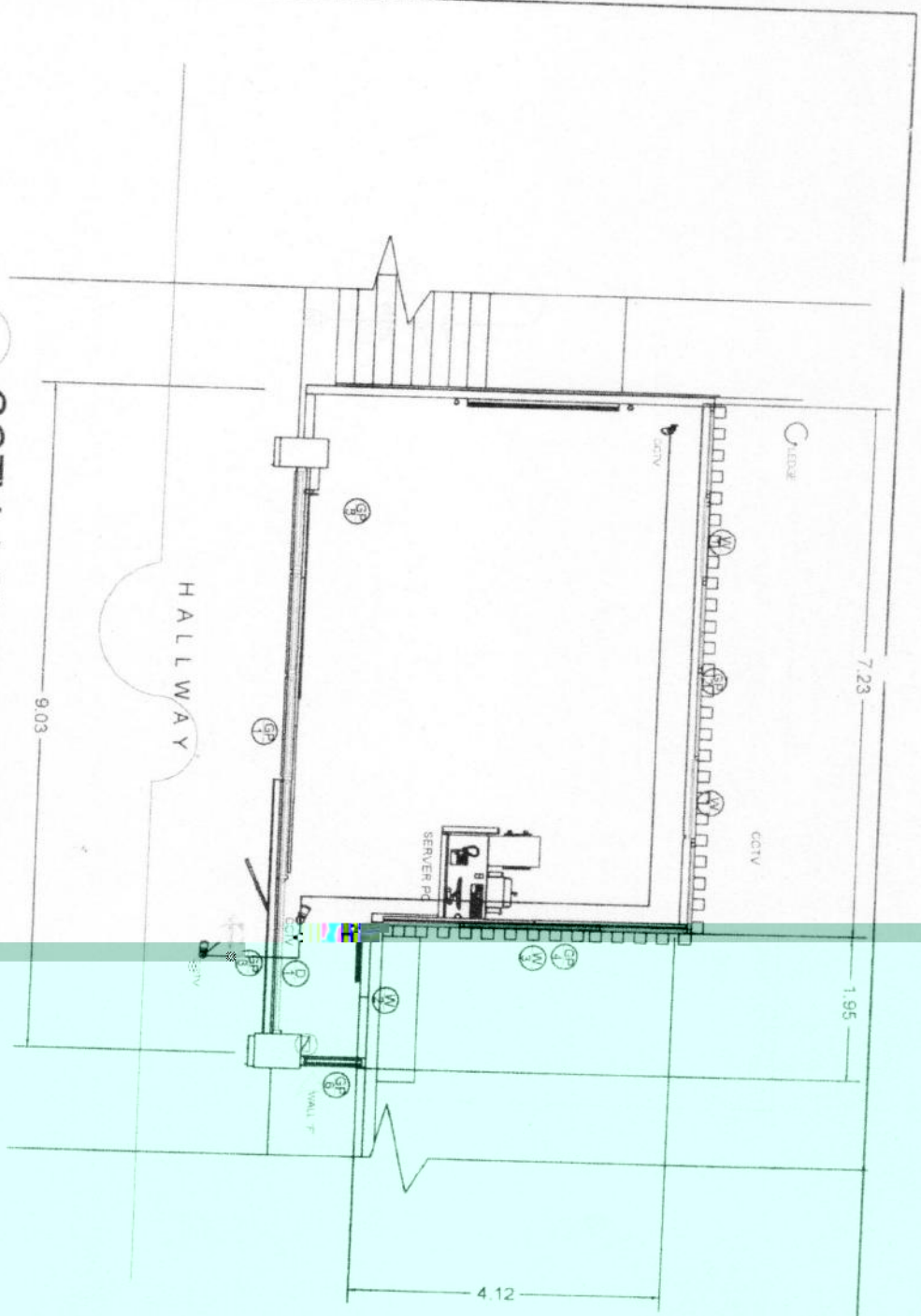
APPROVED:
[Signature]
 BENJAMIN M. SOROLLIA, Ph.D.
 CHIEF, RESEARCH CENTER

PREPARED BY:
[Signature]
 FREDRICK M. S. COBARRERA, Ph.D.
 CAMPUS DIRECTOR

CCTV LAYOUT PLAN

SCALE

1:30



LEGEND:

- PANEL BOARD
- CIRCUIT LINE
- CCTV



Republic of the Philippines
CARLOS HILADO MEMORIAL STATE COLLEGE
 Talisay City, Negros Occidental
 Telefax No.: (034) 712-8404

PROJECT OF REFERENCE : 6565096/CHMSC 19-029-1017-I
 NAME OF PROJECT : Establishment of Applied Geographic Information System (GIS)
 Research Center (Labor and Materials)
 LOCATION OF THE PROJECT : CHMSC-ALIJIS CAMPUS, BACOLOD CITY

Scope of Works of RDGIS Research Center Infrastructures :

- Ceiling Works (Joist and Covering)
- Cladding Works (Frames and Covering)
- Painting Works (Including Existing Structure)
- Glass works (Glass Partition Doors and Windows)
- Steel Works (Steel Bracket)
- SAFETY GRILLS with DOORS
- Electrical Works
- Window Treatment
- Installation of Signages
- Mechanical Works

* Other recommendation

Note: All Design & Plans Should be referred to the identified parameters.

*****Nothing follows*****

BILL OF QUANTITIES - BOQ								
Item no.	Description of Works	Qty	Unit	Material Cost		Labor Cost		Total Amount Contract
				Unit Cost	Material Sub-total Cost	Unit Cost	Labor Sub-Total Cost	
Labor and Materials for RDGIS Research Center Infrastructures								
1.0	GENERAL REQUIREMENTS							
1.1	Safety Occupational Hazards		lot					
1.2	As-Built Plans		lot					
	Sub-total, 1.0 (GENERAL REQUIREMENTS)							
2.0	Architectural Works							
2.1	Ceiling Works (Joist and Covering)							
2.1.1	Metal Furring (1"x2"x5.00)		lgnth					
2.1.2	Hardilite (1/8"x4"x8')		pcs					
2.1.3	Expansion Bolt 1/2"		pcs					
2.1.4	A&B Marine Epoxy		gals					
2.1.5	Paint primer (white) Premium		gals					
2.1.6	ABC GYPSUM PUTTY		gals					
2.1.7	Sand paper # 60		pcs					
2.1.8	Sand paper # 120		pcs					
2.1.9	Paint Roller Foam 7" w/ Pan		sets					
2.1.10	Blind Revits (1/8"x3/4") 1000/box		box					
2.1.11	Drill Bit 9/64		pcs					
2.1.12	Concrete Drill Bit 5/31		pcs					
2.1.13	Other Consumables Items		lot					

2.2	Cladding Works (Frames and Covering)							
2.2.1	Metal Furring (1"x2"x5.00)		lgnth					
2.2.2	Hardilite (1/8"x4'x8')		pcs					
2.2.3	A&B Marine Epoxy		gals					
2.2.4	ABC GYPSUM PUTTY		gals					
2.2.5	Paint primer (white) Premium		gals					
2.2.6	Blind Revits (1/8"x3/4") 1000/box		box					
2.2.7	Drill Bit 9/64		pcs					
2.2.8	Concrete Drill Bit 5/32		pcs					
2.2.9	Sand paper # 60		pcs					
2.2.10	Sand paper # 120		pcs					
2.2.11	Paint Roller Foam 7" w/ Pan		sets					
2.2.12	Other Consumables Items		lot					
	Sub-total							
2.3	Painting Works (Including Existing Structure)							
2.3.1	Semi Gloss latex Paint (Beige)		gals					
2.3.2	Semi Gloss latex Paint (Flicker Flame)		gals					
2.3.3	Semi Gloss latex Paint (Faint Silver)		gals					
2.3.4	Semi Gloss latex Paint (medium gray)		gals					
2.3.5	Semi Gloss latex Paint (Lighting green)		gals					
2.3.6	Latex Paint Wall Primer (White)		gals					
2.3.7	Paint Thinner (premium)		gals					
2.3.8	Paint Brush 4"		pcs					
2.3.9	Paint Brush 2"		pcs					
2.3.10	Paint Roller Foam 7" w/ Pan		sets					
2.3.11	Baby Paint Roller Foam		pcs					
2.3.12	Paint Roller Foam 7" Refill		pcs					
2.3.13	Putty Knife		pairs					
2.3.14	Forporated Tape		rolls					
2.3.15	A&B Marine Epoxy		gals					
2.3.16	Concrete Putty		gals					
2.3.17	Other Consumables Items		lot					
	Sub-total							

2.4	Glass works (Glass Partition Doors and Windows)						
2.4.1	Fix Glass with 2 sets Sliding window(6mm Reflective Bronze Glass) 94" x 282"		set				
2.4.2	Fix Glass with 1 sets Sliding window (6mm Reflective Bronze Glass) 94" x 162"		set				
2.4.3	Fix Glass service area (6mm Reflective Bronze Glass) 0.65m x 1.30m		set				
2.4.4	Fix Glass service area (6mm Reflective Bronze Glass) 2.84m x 1.45m		set				
2.4.5	Fix Glass side(6mm Reflective Bronze Glass) 2.75m x 0.90m		set				
2.4.6	Fix Glass Partition (6mm Reflected Bronze Glass) 105" x 57"		set				
2.4.7	Fix glass with Single swing glass door (Bronze Glass) 105" x 208"		lot				
2.4.8	Table Top Glass Covering .6x1.2m.(Note: see actual table size)		lot				
	Sub-total						
2.5	Steel Works (Steel Bracket)						
2.5.1	1/4" x 1" x 1" Angle Bars		lngh				
2.5.2	12mm Ø DSB		lngh				
2.5.3	Welding Rod E6013		box				
2.5.4	Bolt and nut		pcs				
2.5.5	Zinc Chromate		gals				
2.6	SAFETY GRILLS with DOORS						
2.6.1	1"x1"x20' Square Tube		lngh				
2.6.2	1.5"x1.5"x20' Square Tube		lngh				
2.6.3	2"x2"x20' Square Tube		lngh				
2.6.4	Heavy Duty Steel Hinges		set				
2.6.5	Magnetic Flat Door Stoper		pcs				
2.6.6	Welding Rod E6013		box				
2.6.7	Full Gloss Enamel Paint (Black)		gals				
2.6.8	Zinc Chromate		gals				
2.6.9	Paint Thinner (premium)		gals				
2.6.10	Body Filler		qrt				

2.6.12	Sand paper # 120		pcs					
2.6.13	Other Consumables Items		lot					
	Sub-total							
	TOTAL of Architectural Works							
2.7	ELECTRICAL WORKS							
	Panel Board Bolt on Type in NEMA1 Powder coated							
	MAIN CIRCUIT BREAKER							
2.7.1	: 100AT/100AF, 3P.400V		assy					
	20 BRANCHES:							
	7 -30AT/50AF,2P							
	8 -20AT/50AF,2P							
	3 -40AT/50AF,2P							
2.7.2	Ground Rod with 8.0mm ² in 1 1/2" dia conduit (grounding wires and connector)		lot					
2.7.3	MDP Breaker 100 AT/120 AF (Good Quality)		assy					
2.7.4	Gutter Box Specifications: External Height: 300mm External Width: 400mm External Depth: 210mm External Dimensions: 300x400x210mm Body Material: Steel IP Rating: IP66 Door Lock Type: Single Lock System External Mounting Type: Bracket Internal Mounting Type: Panel Standards Met: RoHS Compliant		pc					
2.7.5	PVC Base Moulding Specifications: Material: PVC Color: White Series: Compact Data Dimensions: W=50mm x D=140mm x L=3m		lgth					
	Sub-total							
2.8	WIRES AND CABLES							
2.8.1	3.5 mm ² THHN Stranded		roll					
2.8.2	8.0 mm ² THHN Stranded		roll					
2.8.3	5.5 mm ² THHN Stranded		roll					
2.8.4	2.0 mm ² THHN Stranded		roll					
	Sub-total							
2.9	CONDUITS							
2.9.1	Junction Box		pcs					
2.9.2	Utility Box		pcs					
2.9.3	Elec Pull Box 10x10" (GOOD QUALITY)		pcs					
2.9.4	1" Ø PVC Pipe		lgth					
2.9.5	PVC Connector 1"		pcs					
2.9.6	PVC Elbow 1" Ø		pcs					
2.9.7	EMT Elbow 1 1/2" Ø		pcs					

2.9.8	EMT Elec. Pipe 1 1/2" Ø		lgnth				
2.9.9	G.I Tie Wire		kgs				
	Sub-total						
2.10	ELECTRICAL OUTLET/ SWITCHES						
2.10.1	Pop Up Floor Electrical Socket Box (2gang) Aluminum		sets				
2.10.2	Two Gang Outlet (Flush Type) Good Quality		set				
2.10.3	Three Gang Outlet (Flush Type) Good Quality		set				
2.10.4	Aircon Outlet Heavy Duty (Flush Type)		set				
2.10.5	Refrigerator Outlet Heavy Duty (Flush Type)		set				
	Sub-total						
2.11	Electrical Raceway/Tray						
2.11.1	1/4" x 1" x 1" Angle Bars		lgnth				
2.11.2	12mm Ø DSB		lgnth				
2.11.3	Welding Rod E6013		box				
2.11.4	EXP Bolt and nut		pcs				
2.11.5	Full Gloss Enamel Paint (Black)		gals				
2.11.6	Zinc Chromate		gals				
2.11.7	Steel Brush		pcs				
2.11.8	Sand paper # 60		pcs				
2.11.9	PVC Elec. pipes 1/3" Ø		lgnth				
2.11.10	PVC Elec. pipes 1" Ø		lgnth				
2.11.11	PVC Elec. pipes 2" Ø		lgnth				
	Sub-total						
2.12	LIGHTING FIXTURES						
2.12.1	LED Bulb 16w day light, with pen light holder(6" dia black rim)		sets				
2.12.2	LED T8 18w set, with holder and bracket		sets				
2.12.3	LED strip light RGB Lighting Décor with remote and converter @ 5m.		sets				
2.12.4	LED Rectangular Ceiling Fixture 33.46"/41.33" Long 58W/80W High Output LED Frame Ceiling Lighting in White		sets				
2.12.5	Automatic Rechargeable Emergency LED Light		unit				
	Sub-total						
	Sub-total, 3.0 (ELECTRICAL WORKS)						
2.14	SIGNAGES						
2.14.1	Single Face Lighted Sign Backlighted (INTERIOR)						
	2.62FTX2.6FTX2" ,STAINLESS, 3D BUILD UP LETTERS, GAUGE 18 IN HAIRLINE FINISH, 3M PHOTOGRAPHIC PRINTING FOR LOGO GRAPHICS, LIGHTED USING LED MODULE COOL DAYLIGHT, TRANSFORMER, CIRCUIT BREAKER, WIRE, ETC, FABRICATION DELIVERY & INSTALLATION		lot				

2.14.2	Single Face Lighted Sign Backlighted (INTERIOR) LOGO		lot				
2.14.3	Backlighted LED FANAPLEX (EXTERIOR) LOGO		lot				
	Sub-total						
2.15	MECHANICAL WORKS						
2.15.1	Equipment and Supplies						
2.15.2	<p>Split type inverter units 1.5 TR Wall Mounted Airconditioning Unit</p> <p>Specifications: Nominal Capacity: 2HP Cooling Capacity: 5,815-21,050kJ/h Refrigerant: R410A Rated Current: 1.8-10.2A Rated Power: 400-1900W Indoor Unit Dimension(W x D x H): 990x218x315mm Outdoor Unit Dimension(W x D x H): 800 x 330 x 554mm Warranty: 5 years on compressor 1 year on other parts</p> <p>Includes: Labor, Materials, Testing and Commissioning - Proper Installation of AC unit(ACCU and AHU) - Installation of Circuit Breaker with enclosure at ACCU - Installation of piping, includes white tape and rubber insulation - Installation of wiring - Installation of drainage system of AHU - Fabrication and Installation of bracket and grills for the AHU/Outdoor Unit - Vacuuming of System - Charging of Refrigerant - Preventive Maintenance of AHU and ACCU</p> <p>Note: Supplier must proceed to actual site location during the quotation for the Ocular Inspection and Coordinate with the PPDM Coordinator (CHMSC- Alijis Campus) for the actual location of AHU, ACCU and actual of Piping and electrical wires.</p>		unit				
	Sub-total						
2.16	Miscellaneous Works		lot				
	Total for Labor and Materials for RDGIS Research Center Infrastructures						
4.0	FURNITURES, FIXTURES and ACCESSORIES						
4.1	Office Cubicles Workstation with Glass partition, tables, shelvings, drawers and storage steel Cabinet with lock and 2 sets of high back mesh office chair - black (Pls. see sample design)		set				
4.2	10 Seater Conference table size 18' x 12', (Black and Gray) with 10 sets of High Back Mesh Upholstery Office Chair-Black (Pls. see sample design)		set				

4.3	Office Single Cubicles workstation partition with tables cover partition and 1 sets of High Back Mesh Upholstery Office Chair-Black (Pls. see sample design)		set					
4.4	High Chair-Black (Pls. see sample design)		set					
4.5	Office High table (Pls. see sample design)		set					
4.6	4 Drawer Steel Filing Cabinet (Dark Gray) L-456mm W620mm H1331mm.		set					
4.7	Coffee Cart with compartment, Contemporary style, Dark Gray (Pls. see sample design)		set					
4.8	Modular steel cabinet with lock system.80x.30x1.50m. (BLACK/GRAY)		set					
4.9	42" LED Smart TV set. With wall bracket set.		set					
4.1	Bulletin Board with Glass Cover and Led Lightings		set					
5.0	WINDOW TREATMENT							
5.1	Supply and install-Full Length Vertical Window Blinds (Textile) for Office with Complete Accessories, Color Dark Grey (Verify window dimension on site)		lot					
5.2	Total for furnitures, fixtures and accessories							-

A. TOTAL DIRECT COST of INFRASTRUCTURES	-
B. CONSUMABLES	-
C. SUPERVISION and ADMINISTRATION	-
D. VAT (12% of Item A)	-
E. TOTAL COST of INFRASTRUCTURES	-
F. TOTAL DIRECT COST of FURNITURE AND FIXTURES	-
G. TOTAL INDIRECT COST (Item D-F)	-
GRAND TOTAL PROJECT COST	-