



Republic of the Philippines
Department of Agriculture
Philippine Center for Postharvest Development and Mechanization
Science City of Muñoz, Nueva Ecija, Philippines
Telephone Nos. 09328696837 (Sun); 09178130852 (Globe) loc. 141/142/143/144;
Email add.: amp@philmech.gov.ph

REQUEST FOR QUOTATION

RFQ No. : 23-05-449
PR No. : 23-05-E-303

Please quote your lowest price on the item/s listed below, subject to the General Conditions on the last page, stating the shortest time of delivery and submit your quotation duly signed by your representative not later than May 29, 2023.

The Philippine Center for Postharvest Development and Mechanization (PHilMech) reserves the right to reject any or all bids/quotations, to refuse to make an award for any item/s due to budget limitation, procurement regulations, or other similar valid causes and to waive any formality not affecting the substance of the bid as the interest of the government may require. It further assumes no responsibility whatsoever to compensate or indemnify suppliers for any expense/s incurred in the preparation of their quotation/s.


MAY 22 2023
RAYMUND JOSEPH P. MACARANAS
Authorized Official

Buyer/Canvasser

ITEM NO.	QTY.	UNIT	ITEM AND DESCRIPTION		UNIT PRICE	TOTAL PRICE
			Per Request	Offer/Brand/Model		
1	1	lot	Supply of Labor nad Materials for Renovation of FMFOD Office for Mindanao Cluster A Office Address: DA-NMACLRC, Malaybalay City, Bukidnon *See attached additional documents -plans and drawings with specifications -bill of quantities -scope of works *Secure Certificate of Site Inspection upon submission of quotation			

Delivery Period : _____
Price validity : _____
Warranty : _____
Terms of Payment : _____



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Telephone Nos. 09328696837 (Sun); 09178130852 (Globe) loc. 272/276;
Email add.: philmech.svp2@gmail.com

REQUEST FOR QUOTATION

General Conditions

1. The Approved Budget for the Contract (ABC) is 366,752.86.
2. Specifications herein provided are the minimum requirements of the PHilMech. Hence a supplier must not offer lower specifications than required.
3. Supplemental information shall be indicated/attached in the price quotation to reflect the complete specifications e.g., brand name, model, pictures/brochures of the offer.
4. Quotation must be inclusive of all costs and applicable government taxes, including delivery charges.
5. Award of the contract shall be made to the lowest complying/responsive bid/offer.
6. Price validity shall be forty five (45) calendar days from the deadline of submission of quotation.
7. For those with ABCs above Fifty Thousand Pesos (PhP50,000.00), suppliers shall submit copies of the following documents in support of their quotation, to wit:

- | | | |
|-------------------------------------|------|--|
| <input checked="" type="checkbox"/> | 7.1 | Current Mayor's/Business Permit |
| <input type="checkbox"/> | 7.2 | DTI/SEC Certificate of Registration |
| <input checked="" type="checkbox"/> | 7.3 | BIR Certificate of Registration |
| <input type="checkbox"/> | 7.4 | PhilGEPS Registration Certificate (Platinum) all pages |
| <input type="checkbox"/> | 7.5 | Omnibus Sworn Statement |
| <input type="checkbox"/> | 7.6 | Income/Business Tax Return |
| <input type="checkbox"/> | 7.7 | Professional License/Curriculum Vitae (Consulting Services) |
| <input checked="" type="checkbox"/> | 7.8 | PCAB License (Infra.) |
| <input type="checkbox"/> | 7.9 | Net Financial Contracting Capacity (NFCC) |
| <input type="checkbox"/> | 7.10 | Documents required as stated in the Technical Specifications |
| <input type="checkbox"/> | 7.11 | Others |

8. Supplier shall be responsible for the source/s of its goods/services/equipment, and which shall be in accordance with the schedule and specifications of the RFQ or PO. Failure of the supplier to comply with this provision shall be ground for cancellation of the award or purchase order issued to the supplier.
9. Payment shall be made only upon completion and acceptance by the PHilMech.
10. Supplier warrants that all goods/services/equipment to be provided are of acceptable industry standard.
11. Delivery period shall be indicated in the quotation. A penalty of 1/10 of one percent for every day of delay shall be charged as liquidated damages on the undelivered items/services.
12. Payment shall be made upon inspection and acceptance of delivery subject to prior submission of sales invoice/delivery receipt and other requirements as maybe necessary
13. In conformity with the Direct Payment Scheme via bank debit system, please credit/deposit payment to:
Name of Bank: _____
Bank Branch: _____
Account Name: _____
Account No.: _____

After having carefully read and accepted the General Conditions attached to the Request for Quotation, I/We quote you on the item/s at prices indicated above.

Printed name and signature of Authorized Representative

Designation: _____

Company Name: _____

Business Address: _____

~~PhilGEPS Registration No.:~~ _____

TIN: _____

Contact No/s.: _____

Email Address: _____



Republic of the Philippines
 Department of Agriculture
 Philippine Center for Postharvest Development and
 Mechanization

BILL OF QUANTITIES

PROJECT TITLE:	Supply of Labor and Materials for Renovation of FMFOD Office for Mindanao Cluster A
PROJECT ID NO.:	AD-INFRA-2023-005
PROJECT LOCATION:	DA Northern Mindanao Agricultural Crops and Livestock Research Complex (DA-NMACLRC), Malaybalay City, Bukidnon

Item No.	Description	QTY (A)	UNIT (B)	UNIT COST (C)	MATERIAL COST (A x C) (D)	LABOR COST (E)	TOTAL COST (D + E) (F)
I	Siteworks						
A.	a.Demolition/ Chipping of wall and floor tiles		sqm				
B.	Disposal of Debris		lot				
						<i>Sub-Total:</i>	
II	Tileworks						
A.	12"x12" Vinyl Tiles		pc				
B.	Vinyl Adhesive		gal				
C.	12"x12" Floor/Wall Tiles		pc				
D.	Portland Cement		bag				
E.	Washed Sand		cu.m.				
F.	Tile Adhesive		bag				
G.	Tile Grout		pack				
H.	Tile Cutter Disc		pc				
						<i>Sub-Total:</i>	
III	Ceiling Works						
A.	Ficem Board on Metal Furring		sq.m.				
B.	Scaffolding Rental		lot				
						<i>Sub-Total:</i>	
IV	Doors and Windows						
A.	Panel Door 0.7x2.1 (Storage)		unit				
B.	PVC Panel Door 0.7x2.1 (CR)		unit				
C.	Alum. Framed Panel Door 0.8x2.1		sq.m.				
D.	W5, Alum. Framed Sliding Window 1.0x1.2		sq.m.				
E.	Door knob lever type		set				
F.	Door Hinge		pc				
						<i>Sub-Total:</i>	
V.	Electrical Works						
A.	2.0mmsq THHN wire		roll				
B.	3.5mmsq THHN wire		roll				
C.	22.0mmsq THHN wire		mtr				
D.	Single Switch		set				
E.	2-gang switch		set				
F.	3-gang switch		set				
G.	Convenience Outlets		set				
H.	Pinlights 4" dia. with LED bulb		pc				
I.	Ceiling Light		unit				
J.	1/2" dia PVC Conduit		pc				
K.	PVC junction box		pc				
L.	PVC utility box		pc				
M.	Flexihose conduit 1/2" dia		mtr				
N.	Electrical Tape		roll				
O.	PB 60AT mccb, 5-30A, 3-20AT CB		unit				
						<i>Sub-Total:</i>	
VI.	Plumbing Works						
A.	Water Closet		set				
B.	Lavatory		unit				
C.	Faucet		unit				
D.	Angle valve		unit				
E.	Twin Angle valve		unit				
F.	Supply Hose		unit				
G.	Spray Hose for Bidet		unit				
H.	Floor Drain Strainer		unit				
I.	Gate Valve 1/2" dia.		unit				

	J.	Water Supply Line (ppr pipe)		lot			
	K.	Sanitary Line		lot			
							Sub-Total:
VII.		Carpentry Works					
	A.	Metal Stud		pc			
	B.	Ficem Board		pc			
	C.	Blind Rivet		box			
							Sub-Total:
VIII.		Painting Works					
	A.	Semi-gloss Latex		sq.m			
	B.	Flatwall Enamel		sq.m			
	C.	Scaffolding Rental		lot			
	D.	Other Consumables		lot			
							Sub-Total:
		Total Direct Cost					
	A.	Direct Cost					
	B.	Indirect Cost (_____ % of A)					
	C.	Contractor's Profit Margin (_____ % of A)					
	D.	VAT (5% A+B+C)					
	E.	Total Project Cost (A+B+C+D)					
	In words						

Prepared by:

(Name of Contractor)

Reviewed by:

JERRY F. ABELLANOZA

Acting Chief, Administrative Division

Recommending Approval:

OFERO A. CAPARINO, Ph.D.

OIC Assistant Director, INFRACOM Chair

Approved:

DIONISIO G. ALVINDIA, Ph.D.

Director IV



SCOPE OF WORK

PROJECT TITLE: Supply of Labor and Materials for Renovation of FMFOD Office for Mindanao Cluster A

PROJECT ID NO.: AD-INFRA-2023-005

PROJECT LOCATION: DA Northern Mindanao Agricultural Crops and Livestock Research Complex (DA-NMACLRRC), Malaybalay, Bukidnon

Technical Specification

I. GENERAL

- a. The Contractor shall furnish all materials, equipment, tools, apparatus, appliances, accessories, transportation, labor and supervision required for the complete construction of the subject project, as shown on the drawings and called for in these specifications, ready for use.
- b. All Contractor submitting the proposal for this project shall first conduct site inspection/ examination. All proposal shall take into consideration all such conditions that may affect the work under this contract. The specifications and plans shall form part as one.
- c. The contractor shall coordinate the works with all parties to ensure proper phasing or comply with the approved schedule of work. The contractor shall engage under him, a registered Engineer or Architect to supervise the work.
- d. No alteration or additional work that will result in an additive or deductive cost change from the Contract shall be allowed without the approval of the end-user.
- e. Existing conditions of the work site shall be documented by the contractor and photos shall be taken before commencement of work to ensure such status. Any damage on the areas due to contractor's on-going work shall be restores at his expense.
- f. The contractor shall provide a complete copy of "As Built Plans" of the project/unit concerned which shall include all the civil, architectural, plumbing, electrical and other related layouts in 20" x 30" original sheets. It should be properly drawn indicating all the specifications, layouts, tables and necessary data. Final "As Built plans" shall be submitted in 20" x 30" tracing sheets, 3 blueprints with signature of project engineer and an electronic Autocad drawing file.
- g. The contractor shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials on a weekly basis. After the completion of all works, restore all areas that were damaged as affected by the construction works and leave the site clean to the satisfaction of the Project Inspection or his representative and End-user.
- h. All materials removed from the unit shall be properly documented prior to the turn-over to the End-user for proper safe keeping.

II. Scope of Work

- a. Siteworks
 - i. Demolition/ Chipping of wall, floor tiles in comfort room
 - ii. Disposal of debris
 - iii. Removal/ demolition of damaged/ worn out ceiling boards and wood framing
- b. Tileworks
 - i. Installation of 12" x 12" vinyl tiles at the area being renovated
 - ii. Installation of 12" x 12" floor and wall tiles at the comfort room
- c. Ceiling Works
 - i. Furnish all ceiling finishes, equipped with fixing accessories in accordance with Plan and/or shop drawings and as herein specified
 - ii. Replacement of the damaged/ worn out ceiling board and framing using 4' x 8' fiber cement board on metal furring, puttied, sanded and ready to receive paint primer coating
 - iii. Provision of necessary accessories and framing for proper installation
- d. Installation of Doors and Windows
 - i. Replacement of the panel door (0.70m x 2.10m) at Storage Room and PVC panel door (0.70m x 2.10m) at comfort room
 - ii. Installation of aluminum framed panel door (0.80m x 2.10m) at the entrance and aluminum framed sliding window (1.0m x 1.2m) at the designated locations
- e. Electrical Works
 - i. All works shall be done in accordance with the requirements of the latest edition of the Philippine National Code and National Safety Code.
 - ii. Installation of electrical fixtures including convenience outlet, pin light 4" dia with LED bulb, ceiling lights
 - iii. Rough-in electrical conduit
- f. Plumbing Works
 - i. Replacement of plumbing fixtures which includes the water closet with bidet, lavatory, faucet
 - ii. Re-alignment of water supply line
- g. Carpentry Works
 - i. Installation of dry wall
- h. Painting Works
 - i. Furnish all paints, enamels, varnishes and other products to be used including labor, tools and equipment necessary for a complete repainting job.
 - ii. Color shall be selected and approved by the management before the application.
 - iii. Main color of the structure shall conform same as the existing
 - iv. All painted surfaces shall have a minimum of two coats at 20 square meter per gallon.
 - v. Number of coats, where specified, is minimum
- i. Clearing of site for final inspection

III. INSPECTION

- a. During implementation of the project and any time prior to the approval of the Final Report, the Contract shall permit the management to inspect, at any reasonable time, the property, all work done, labor performed and materials furnished in connection with the activities with the scope of work.

IV. WORK AREA PROTECTION

- a. Before painting in any section of the building, use drop sheets and masking tape wherever necessary to protect finished work or other surfaces liable to damage during painting.

V. MANPOWER REQUIREMENTS

- a. The contractor shall assign trained personnel and supervisors who are competent to execute all works in a workmanlike manner and shall do all the necessary works related to the project.
- b. The contractor shall not withdraw from the site until PHILMECH representative has agreed that no further work is necessary at the time.

VI. STANDARD OF WORKMANSHIP, MATERIALS AND PERFORMANCE

- a. The contractor shall execute all works in a neat and workmanlike manner and shall do all necessary works whether it is clearly specified in these specifications.
- b. All materials shall be new and shall conform to the Technical Specifications. All materials shall be the standard product of reputable manufacturer and shall bear the name of the manufacturer.
- c. All materials shall be subject to inspection and approval of PHILMECH management. All materials and equipment installed without prior approval of the management shall be at the risk of rejection.

VII. TERMS OF PAYMENT

- a. Payment of 100% of the Contract amount will be made after issuance by PHilMech of Certificate of Completion and Acceptance and submission of all required documents. Payment is subject to applicable taxes.
- b. When the contractor fails to satisfactorily deliver goods within the specified delivery schedule, inclusive of duly granted time extensions, if any, the contractor shall be liable for damages for the delay and shall pay the procuring entity liquidated damages, an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery, for every day of delay until such goods are finally delivered and accepted by the procuring entity concerned.

VIII. RESPONSIBILITIES DURING PROJECT IMPLEMENTATION

- a. PHilMech authorized personnel shall observe all the works during the project implementation.

- b. In the implementation of work, PHilMech or its representative shall not be responsible for any accident of the contractor's employee or laborers. Likewise, the management shall not be responsible for any loss or damage of materials, tools, equipment delivered on the job site. Damages on the PHilMech properties and equipment caused by the contractor shall be replace/repared at its own expense to the satisfaction of the PHilMech management. In the event of failure of repair and/or replacement of the same, the management shall deduct the cost of such repairs from the payment due to the contractor.

IX. WARRANTY AND AFTER-SALES SERVICE REQUIREMENTS

- a. All works shall be guaranteed against defects or workmanship for a period of one (1) year upon the issuance of Certificate of Completion and Acceptance of the completed goods by the PHilMech.

X. SAFETY

- a. Contractor is responsible and shall continue management and implementation of a safety and health program throughout construction.
- b. Contractor shall provide all Personal Protective Equipment for the workers as per the requirement of the site. Work will be stopped in case the proper protection equipment is not found with the workers and the lapse of time shall be at the Contractor's expense. Contractor will not leave the work site in an unsafe condition or any other condition that might cause injury to personnel, damage to existing work, plants or equipment.
- c. Any equipment or work considered dangerous shall be immediately discontinued.

XI. SITE CONDITION

- a. The contractor shall leave the premises clean, neat and orderly. All stains, spots, blemishes, soil dirt shall be removed from all finished work. All excess materials, soils, used containers, tools equipment and supplies shall be move out of the PHilMech premises during the progress of work and upon completion of the said project.

XII. DURATION

- a. The Contractor shall substantially complete the project on a timely schedule and in an expeditious manner for a period of **45 calendar days** from the effective date.

Note: The foregoing list of items of works does not in anyway limit the responsibility of the Contractor to perform all the other works necessary for the completion of the project.

Prepared by:

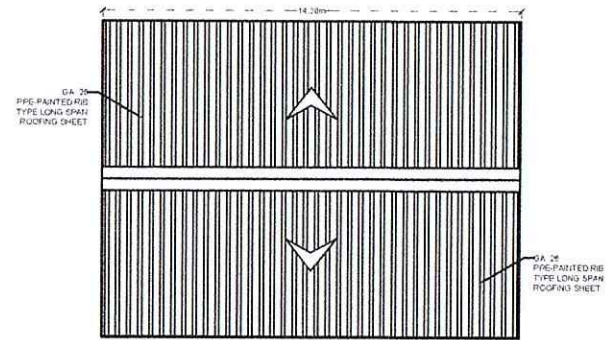
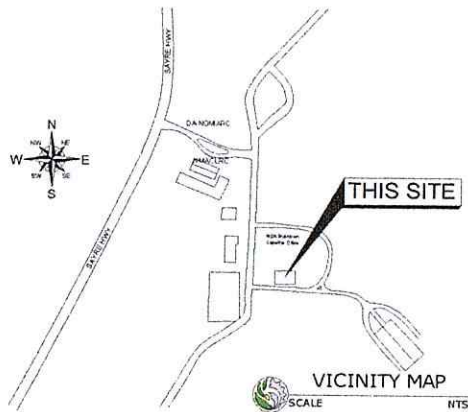
JENO JULIUS C. GARCIA
Admin Officer III, AD-BMTSS

Reviewed by:

JERRY F. AVELLANOZA
Acting Chief, Administrative Division

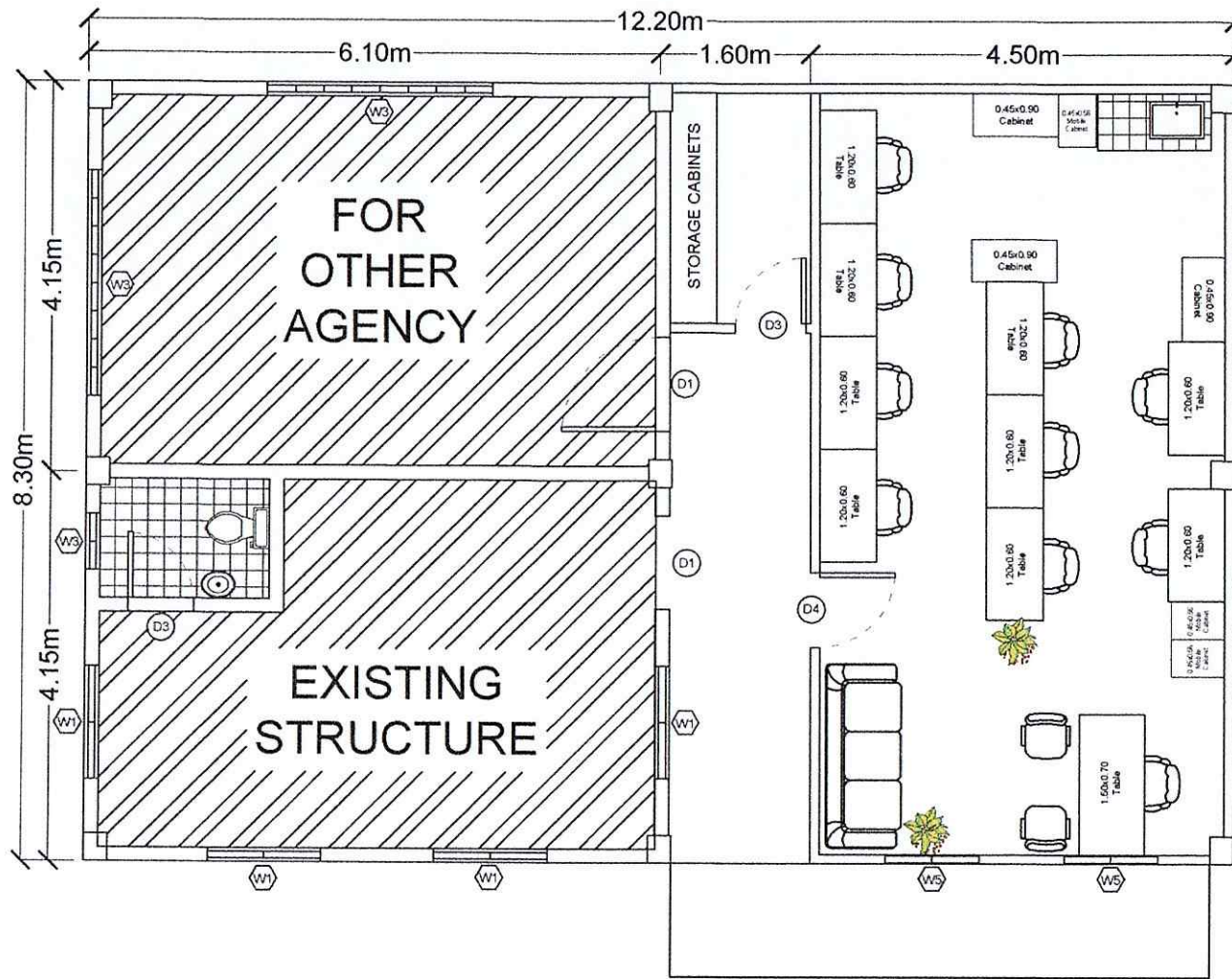


PERSPECTIVE
SCALE NTS



SITE DEVELOPMENT PLAN
SCALE NTS

	ARCHITECT / CIVIL ENGINEER:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	R.A. 9006 SECTION 20 DRAWINGS AND SPECIFICATIONS ONLY PRINTED, FORWARDED OR SELLER IN THE PROMOTION OF GOODS ARE THE PROPERTY OF THE ARCHITECT OR ANY PERSON, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DRAWINGS FOR THE USE IN THE EXECUTION OF AND FOR OTHER PROJECTS OR BUILDINGS HEREIN SPECIFIED, PARTLY OR IN WHOLE. IPR IDENTICAL DE CASE NO. 89 PROTECTION OF INTELLECTUAL PROPERTY NOT GRANTED IN THIS WORK OF ART. ARCHITECTURE, MODELS AND DESIGN ARE CREATIVE AND CONSIDERED AS PART OF THE INTELLECTUAL PROPERTY OF THE AUTHOR ONLY PROTECTED UNDER P.D. 49.	SHEET COVENTS: AS SHOWN	
	DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLRC), MALAYBALAY CITY, BUKIDNON	ERIC JENO JULIUS C. GARCIA ARCHITECT	JERRY F. AUSTIN ACTING CHIEF, ADMINISTRATIVE DIVISION	DR. ERIC A. CARRASCO, ET AL. CHIEF ASSISTANT DIRECTOR	DIOPRESO G. ALVENDIA, PH.D. DIRECTOR IV				



FLOOR PLAN
SCALE 1:75



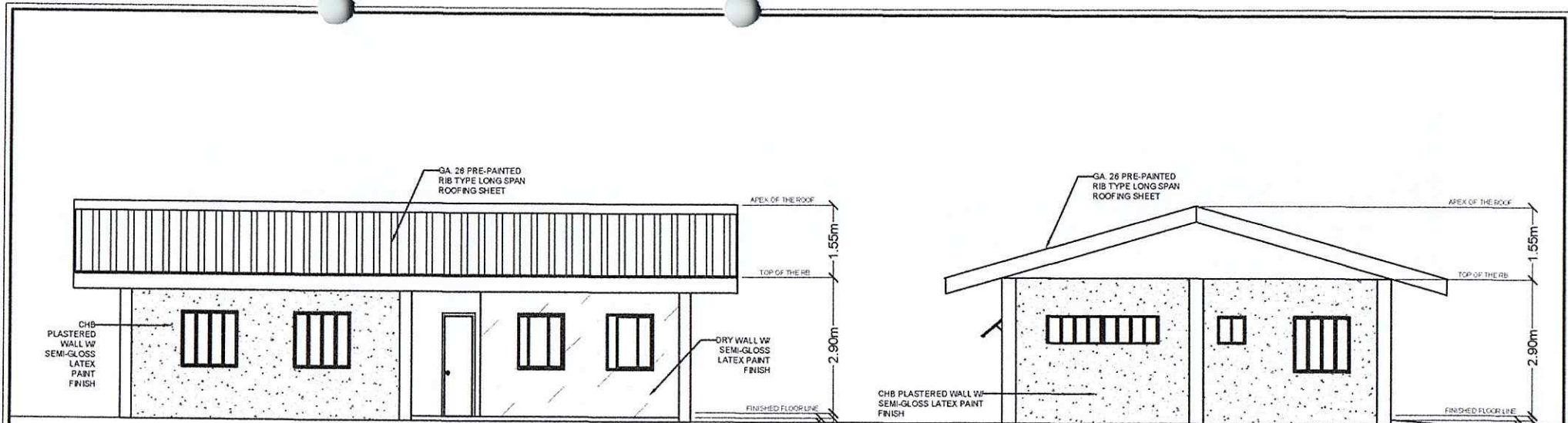
ARCHITECT / CIVIL ENGINEER	PROJECT TITLE:
	PROPOSED RENOVATION OF PHILMECH LIAISON OFFICE FOR MINDANAO CLUSTER A
	PROJECT LOCATION:
	DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLRC), MALAYBALAY CITY, BUKIDNON

PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:
<i>[Signature]</i> ERNEST JENO JULIUS L. BARRICA ARCHITECT	<i>[Signature]</i> HERNAN AVELLANOSA ACTING GROUP MANAGER, PLANNING DIVISION	<i>[Signature]</i> OFERIO A. CAPARISUA, ENR. OIC ASSISTANT DIRECTOR	<i>[Signature]</i> DIONISIO G. ALVINDIA, PH.D. DIRECTOR IV

R.A. 9206 SECTION 20
INVESTIGATES AND INSPECTATIONS EMPLOYED...
PROTECTION OF INTELLECTUAL PROPERTY NUMBER 14, 152, 153, 154, AND ARCHITECTURE, MODELS AND DESIGN ARE CREATED AND CONSIDERED AS PART OF THE INTELLECTUAL PROPERTY OF THE AUTHORITY PROTECTED UNDER R.A. 9206

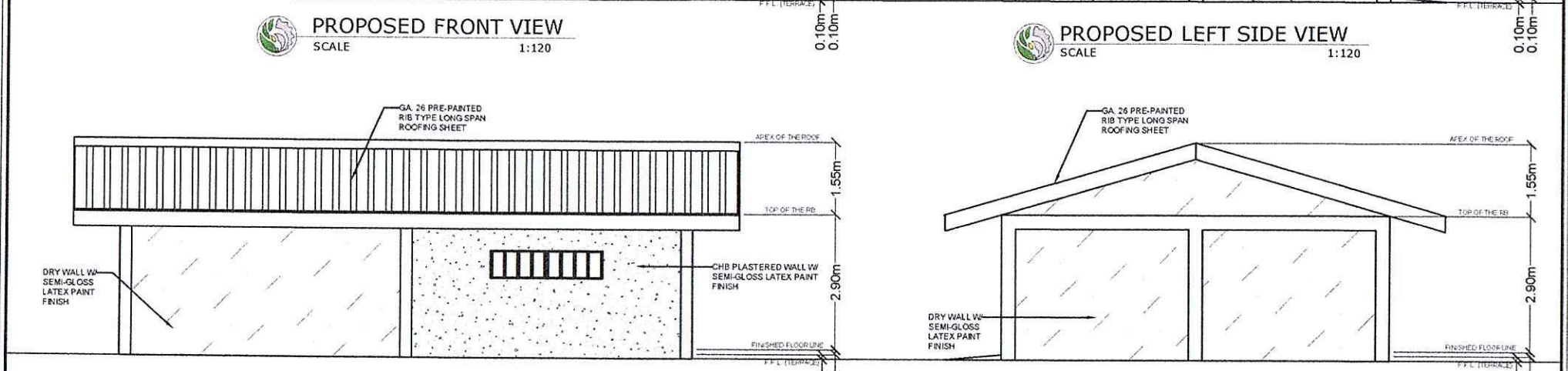
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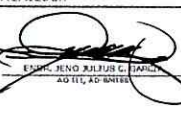
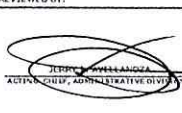
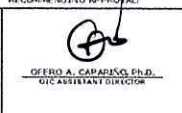
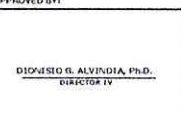
 **PROPOSED FRONT VIEW**
SCALE 1:120

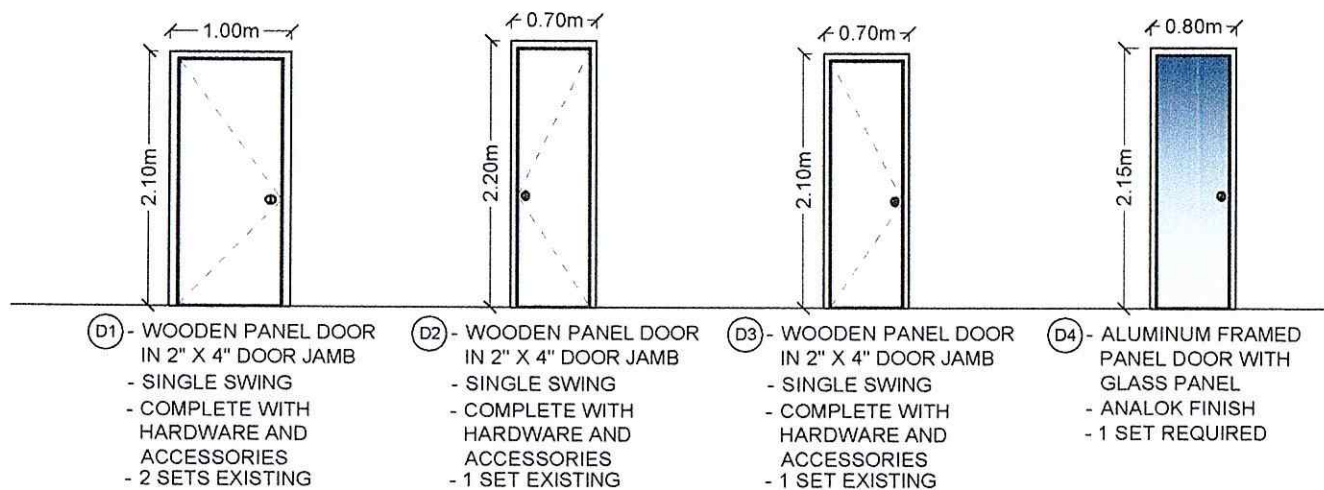
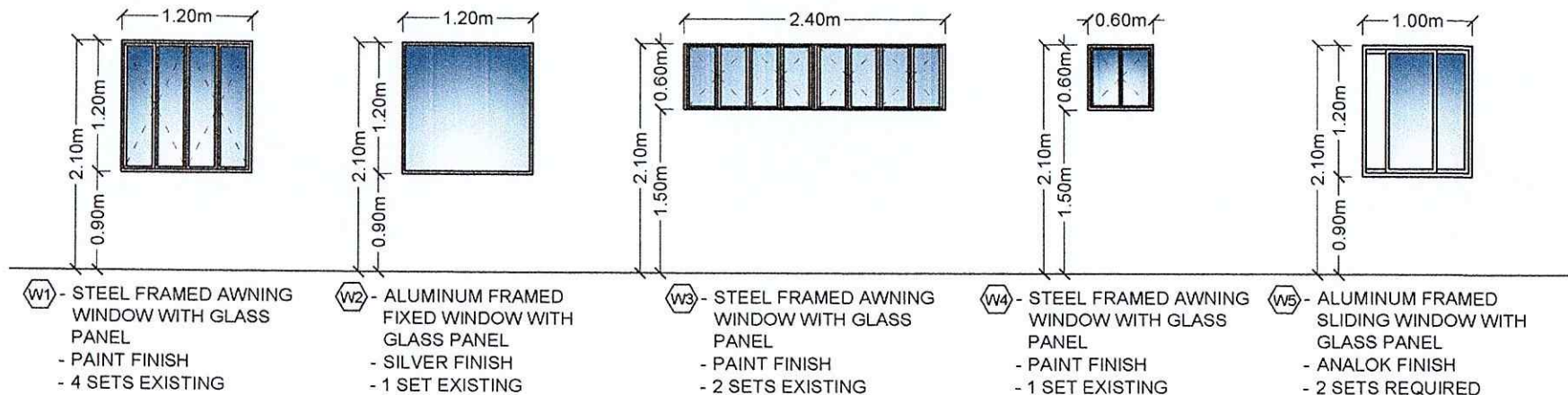
 **PROPOSED LEFT SIDE VIEW**
SCALE 1:120



 **PROPOSED REAR VIEW**
SCALE 1:120

 **PROPOSED RIGHT SIDE VIEW**
SCALE 1:120

	ARCHITECT / CIVIL ENGINEER:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	R.A. 7266 SECTION 20 DRAWINGS AND SPECIFICATIONS DELIVERED, FORWARDED OR ISSUED AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF BUREAU OF AGRICULTURE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS, FOR THE USE IN THE EXECUTION OF AND FOR OTHER PROJECTS OF BUREAU OF AGRICULTURE IS STRICTLY PROHIBITED. VIOLATION OF THIS PROVISION SHALL BE PENALIZED. PRESIDENTIAL DECREE NO. 96 PROTECTION OF INTELLECTUAL PROPERTY RIGHTS AUTHORITY IN THE WORKS OF ART, ARCHITECTURE, SCULPTURE AND DESIGN ARE CREATIVE AND CONSIDERED AS PART OF THE INTELLECTUAL PROPERTY OF THE AUTHOR/DRAWN/DESIGNER/INVENTOR.	SHEET CONTENTS: AS SHOWN	
	PROJECT LOCATION: DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLR), MALAYBALAY CITY, BUKIDNON	PREPARED BY:  E. J. RENO JULIUS G. DAPERA A.O. III, ARCHITECT	REVIEWED BY:  JEROME B. MANALANDA A.O. III, ARCHITECT	RECOMMENDING APPROVAL:  OFERIO A. CAPARANG, PH.D. OIC ASSISTANT DIRECTOR	APPROVED BY:  DIONISIO G. ALVINDIA, PH.D. DIRECTOR IV				



SCHEDULE OF DOORS AND WINDOWS

SCALE

1:60



ARCHITECT / CIVIL ENGINEER	PROJECT TITLE:
	PROPOSED RENOVATION OF PHILMECH LIAISON OFFICE FOR MINDANAO CLUSTER A
	PROJECT LOCATION:
	DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLR), MALAYBALAY CITY, BUKIDNON

PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. JENO JULIUS C. GARCIA AD. III, AD. BMSK	JERRY F. AYELLANO ACTING CHIEF, ADMINISTRATIVE DIVISION	GERO A. CAPIRISO, PH.D. DIC ASSISTANT DIRECTOR	DIONISIO G. ALVINDIA, PH.D. DIRECTOR IV

PREPARED BY: ENGR. JENO JULIUS C. GARCIA
AD. III, AD. BMSK

REVIEWED BY: JERRY F. AYELLANO
ACTING CHIEF, ADMINISTRATIVE DIVISION

RECOMMENDING APPROVAL: GERO A. CAPIRISO, PH.D.
DIC ASSISTANT DIRECTOR

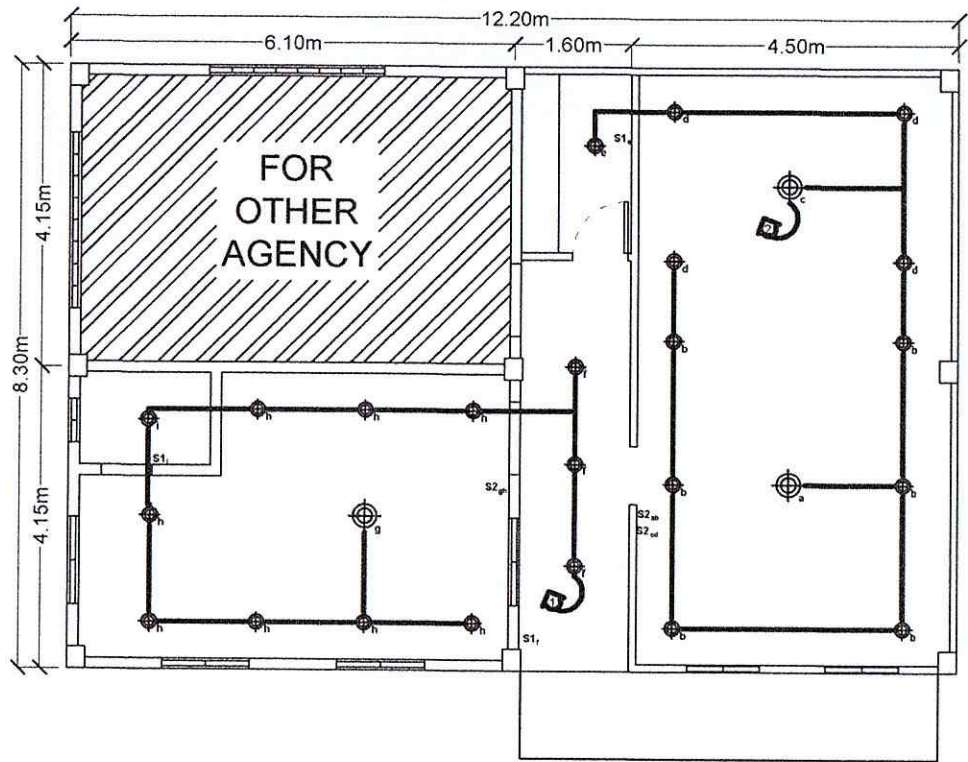
APPROVED BY: DIONISIO G. ALVINDIA, PH.D.
DIRECTOR IV

R.A. 9206 SECTION 20
DRAWINGS AND SPECIFICATIONS SHALL BE PREPARED OR REVISIONS THEREOF SHALL BE MADE BY THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHORITY OF SAID DOCUMENT FOR THE USE IN THE EXECUTION OF AND FOR OTHER PROJECTS OR BUILDING WORKS UNLESS SPECIFICALLY STATED OTHERWISE.

PRESIDENTIAL DECREE NO. 49
PROTECTION OF INTELLECTUAL PROPERTY RIGHTS
NOVEMBER 19, 1988 (RA 9003)
ARCHITECTURE, MODELS AND DRAWINGS ARE CREATIONS AND CONSIDERED AS PART OF THE INTELLECTUAL PROPERTY OF THE AUTHOR AND PROTECTED UNDER P.D. #8.

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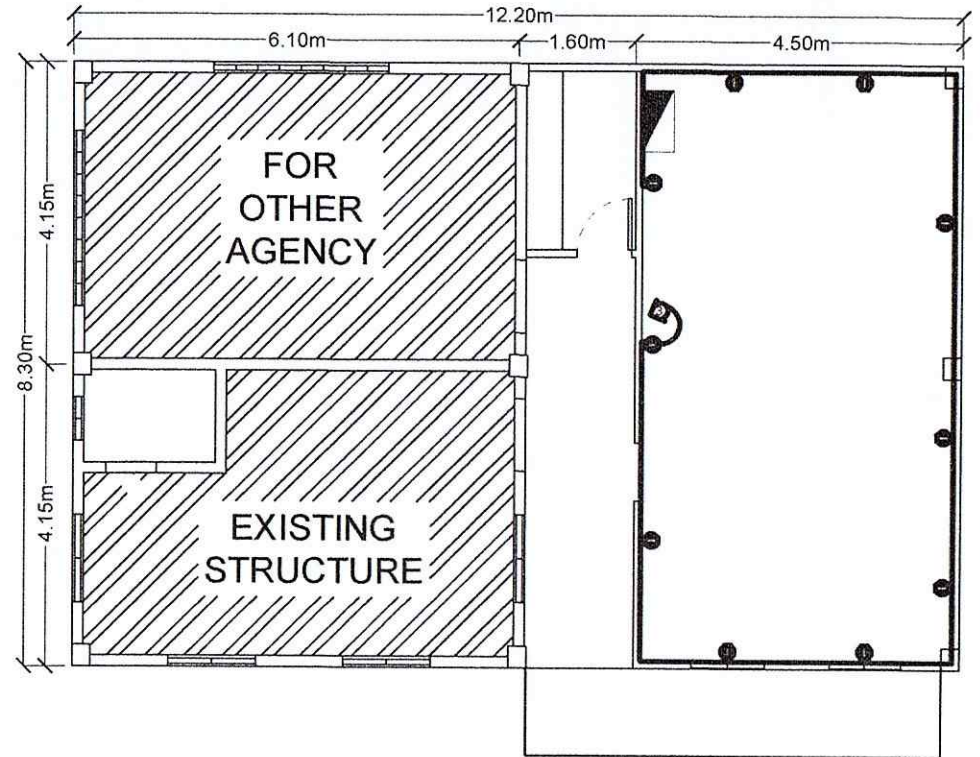
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LIGHTING LAYOUT PLAN

SCALE

1:100



POWER LAYOUT PLAN

SCALE

1:100



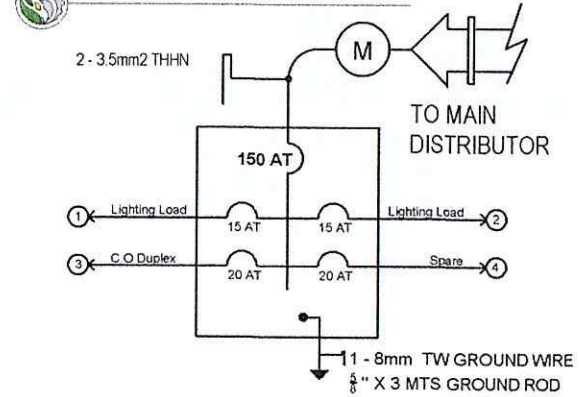
ELECTRICAL ENGINEER: PROJECT TITLE: PROPOSED RENOVATION OF PHILMECH LIAISON OFFICE FOR MINDANAO CLUSTER A PROJECT LOCATION: DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLRRC), MALAYBALAY CITY, BUKIDNON	PREPARED BY: ENGR. JENO JULIUS C. GARCIA AD III, ADM OFFICE	REVIEWED BY: JERRY F. ASUNCION ACTING CHIEF, ADMINISTRATIVE DIVISION	RECOMMENDING APPROVAL: OFELIO A. CAPARISON, Ph.D. OIC ASSISTANT DIRECTOR	APPROVED BY: DIONISIO G. ALVINZIA, Ph.D. DIRECTOR IV	R.A. 9206 SECTION 20 DIMENSIONS AND SPECIFICATIONS SHALL BE SHOWN AND STAMPED OR SEALED AS PERMITTED BY SERVICE AND THE PROJECTS UNLESS FOR ANY REASON, WITHOUT THE EXPRESS CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS FOR THE USE IN THE REVISIONS OF AND FOR OTHER PROJECTS OR BUILDINGS UNLESS A RESCINDING ORDER IS ISSUED. PRESIDENTIAL DECREE NO. 49 PROTECTION OF INTELLECTUAL PROPERTY RIGHTS IN DESIGN AND ART ARCHITECTURAL, ENGINEERING AND DESIGN ARE CREATED AND CONSIDERED AS PART OF THE INTELLECTUAL PROPERTY OF THE AUTHOR EXCEPT WHERE SHOWN OTHERWISE.	SHEET CONTENTS: AS SHOWN <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; flex-direction: column; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> E1 </div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> 5 </div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> 6 </div> </div>
	ELECTRICAL ENGINEER: PROJECT TITLE: PROPOSED RENOVATION OF PHILMECH LIAISON OFFICE FOR MINDANAO CLUSTER A PROJECT LOCATION: DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLRRC), MALAYBALAY CITY, BUKIDNON	PREPARED BY: ENGR. JENO JULIUS C. GARCIA AD III, ADM OFFICE	REVIEWED BY: JERRY F. ASUNCION ACTING CHIEF, ADMINISTRATIVE DIVISION	RECOMMENDING APPROVAL: OFELIO A. CAPARISON, Ph.D. OIC ASSISTANT DIRECTOR	APPROVED BY: DIONISIO G. ALVINZIA, Ph.D. DIRECTOR IV	SHEET CONTENTS: AS SHOWN <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> E1 </div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> 5 </div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> 6 </div> </div>

LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	NO. OF OUTLETS	WATTS	VOLTS	AMPS	CKT PROTECTION	WIRE SIZE	CONDUIT
1	LIGHTING OUTLET	13	1300	220	5.90	15	2-3.5mm ² THHN	15 MM \varnothing
2	LIGHTING OUTLET	13	1300	220	5.90	15	2-3.5mm ² THHN	15 MM \varnothing
3	CONVENIENCE OUTLET	10	1000	220	4.55	20	2-3.5mm ² THHN	15 MM \varnothing
4	SPARE	1	1500	220	6.81	20	2-3.5mm ² THHN	15 MM \varnothing
TOTAL			5,100		23.16	70	2-3.5mm² THHN	

IT = 23.16 A
 IL = [IT + 25% (HIGHEST MOTOR CURRENT)]
 IL = [23.16 + 25% (12)] x 85% D.F. = 22.24 A
 USE: 2 - 3.5mm² THHN AS MAIN SERVICE ENTRANCE AS STANDARD
 PB 60AT mccb, 5-30A, 3-20AT CB (1 $\frac{1}{4}$ ") RSC WITH ENTRANCE CAP

LOAD DIAGRAM



ELECTRICAL NOTES :

- ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS & SPECS, AND THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, ITS RULES & REGULATIONS, OF THE LOCAL ENFORCING AUTHORITY & THE REQUIREMENTS OF THE LOCAL POWER COMPANY, THE ELECTRICAL WORK SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED PROFESSIONAL ELECTRICAL ENGINEER.
- ALL WIRES SHALL BE COPPER & THERMOPLASTIC INSULATED TYPE " THHN " UNLESS OTHERWISE INDICATED USE PHELPS DODGE OR COLUMBIA BRAND.
- THE CONTRACTOR SHALL VERIFY & ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.
- ALL FEEDERS & BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED AS INDICATED ON THE PLANS BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL HOMERUN CONDUITS.
- ANY DISCREPANCY IN LOCATION & RATINGS OF EQUIPMENT AND/OR APPARATUS TO BE INSTALLED SHALL BE VERIFIED WITH THE OWNER OR HIS AUTHORIZED REPRESENTATIVE & CHANGES SHALL BE MADE ACCORDINGLY.
- ALL MATERIALS & EQUIPMENT TO BE USED & INSTALLED SHALL BE BRAND NEW, OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE INTENDED.
- ALL POWER & CONVENIENCE OUTLETS SHALL BE GROUNDING TYPE.
- THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS
 - LIGHT SWITCHES - 1.40 M. ABOVE FINISH FLOOR LINE
 - CONVENIENCE OUTLETS - 0.30 M ABOVE FINISH FLOOR LINE
 - TELEPHONE OUTLETS - 0.30 M. ABOVE FINISH FLOOR LINE
 - PANELBOARDS & CABINETS - 1.40 M. ABOVE FINISH FLOOR LINE
 - CABLE TV OUTLET- 0.30 M. ABOVE FINISH FLOOR LINE

ELECTRICAL LEGENDS :

- PANEL BOARD
- DUPLEX CONVENIENCE OUTLET
- SERVICE ENTRANCE (INDICATE THE NUMBER OF CONDUCTOR, SIZE TYPE AND VOLTAGE)
- SERVICE KILOWATT-HOUR METER
- CEILING LIGHT
- PINLIGHT
- SINGLE SWITCH
- TWO GANG SWITCH
- THREE GANG SWITCH
- GROUND
- CIRCUIT HOMERUN

	ELECTRICAL ENGINEER:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	P.A. SOME SECTION 20 DRAWINGS AND SPECIFICATIONS DATE ISSUED: SHOWN ON SHEETS AS SUPPLEMENT OF SERVICE ARE THE PROPERTIES UNLESS FOR ANY REASON, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR LICENSEE AND DOCUMENTS FOR THE USE IN THE EXECUTION OF AND FOR OTHER PROJECTS OR BUILDING, HEREIN SPECIFIED SHALL BE IN WHOLE.	SHEET CONTENTS: AS SHOWN	<div style="border: 2px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="font-size: 24px; font-weight: bold;">E2</div> <div style="margin: 0 5px;">/</div> <div style="font-size: 24px; font-weight: bold;">66</div> </div>
	PROPOSED RENOVATION OF PHILMECH LIAISON OFFICE FOR MINDANAO CLUSTER A PROJECT LOCATION: DA NORTHERN MINDANAO AGRICULTURAL CROPS AND LIVESTOCK RESEARCH COMPLEX (DA-NMACLR), MALAYBALAY CITY, BUKIDNON	ENR. ENO JULIUS C. GARCIA AD III, AD-SHSS	JESSE AVILA ACTING CHIEF, ADMINISTRATIVE DIVISION	DR. ERIC A. CAPIRANO, Ph.D. OIC ASSISTANT DIRECTOR	DIONISIO G. ALVINDIA, Ph.D. DIRECTOR IV	PRESENTATIONAL DESIGN NO. 00 PROTECTION OF INTELLECTUAL PROPERTY, NO. 000000 IN 000000 OF 000000 ARCHITECTURE, INTERIOR DESIGN AND CONSTRUCTION AND CONSTRUCTION AS PART OF THE INTELLECTUAL PROPERTY OF THE OFFICE IS PROTECTED UNDER PD. 00			