

Project Title	Contractor	Contract Amount	Notice of Award	Contract/P.O. Number	Contract/P.O. Date	Notice to Proceed
Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism Software for the Publication Office	Libtech Source Philippines, Inc.	₱ 1,284,864.00	17-Jul-2023	GD 2023-06-063	19-Jul-2023	19-Jul-2023
Procurement of Yearbook and Graduation Picture Package for the 2023 Graduating Class	Andy's Studio	₱ 1,102,916.00	11-Aug-2023	GD 2023-07-081	22-Aug-2023	22-Aug-2023
Supply and Delivery of Cloud-based Antivirus Software (700) Licenses of the University	American Technologies, Inc.	₱ 1,251,927.00	11-Sept-2023	23-09-0351	18-Sept-2023	18-Sept-2023
Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center	Pinnacle Technologies, Inc.	₱ 2,480,000.00	22-Sept-2023	23-09-0373	19-Oct-2023	19-Oct-2023
Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023	Xitrix Computer Corporation (LOT 1)	₱ 2,265,000.00	22-Sept-2023	23-09-0377 23-09-0378 23-09-0379	19-Oct-2023	19-Oct-2023
Supply and Delivery of Uniform Package for the 2023 SCUAA National Games - NCR Delegation	Gameville Corporation	₱ 2,038,950.00	26-Sept-2023	23-09-0370	27-Sept-2023	27-Sept-2023
Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment	Builtrade Construction Supplies (LOT 2 and LOT 4)	₱ 665,419.80	20-Nov-2023	23-11-0427	04-Dec-2023	04-Dec-2023
Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server	Pinnacle Technologies, Inc.	₱ 1,988,000.00	28-Nov-2023	23-12-0470	19-Dec-2023	19-Dec-2023

Supply, Delivery, and Some Installation of Some Acquisition of Equipment of the Teaching Excellence Training Laboratory	Pinnacle Technologies, Inc.	₱ 4,888,000.00	18-Dec-2023	23-12-0486	05-Jan-2024	05-Jan-2024
Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment	Amellar Solutions (LOT 1, LOT 2, and LOT 4)	₱ 4,268,000.00 ₱ 2,679,999.75	18-Dec-2023	23-12-0487 23-12-0490	29-Dec-2023 29-Dec-2023	29-Dec-2023 29-Dec-2023
	Xitrix Computer Corporation (LOT 3)	₱ 3,396,000.00	18-Dec-2023	23-12-0488	29-Dec-2023	29-Dec-2023
Supply, Delivery and Installation of Audio Equipment for Various University Venues	Microdata Systems and Management, Inc.	₱ 3,765,000.00	19-Dec-2023	23-12-0476	27-Dec-2023	27-Dec-2023
Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (School Building Component)	Global-V Builders Co.	₱ 4,295,179.73	18-Dec-2023	CW 2023-10-132	29-Dec-2023	29-Dec-2023
Repair and Improvement of Worship Space	Gammaa A. Builders	₱ 3,333,001.14	18-Dec-2023	CW 2023-10-133	19-Jan-2024	19-Jan-2024
Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023	Power Mac Center, Inc. (LOT 1 and LOT 4)	₱ 464,994.00 ₱ 924,940.00	04-Jan-2024	24-01-0002 24-01-0004	31-Jan-2024	31-Jan-2024
	Machine and Computer World, Inc. (LOT 2 and LOT 3)	₱ 995,150.00	03-Jan-2024	24-01-0001	06-Feb-2024	06-Feb-2024



**PURCHASE REQUEST  
PHILIPPINE NORMAL UNIVERSITY  
AGENCY**

Department: FMSS  
Section:

PR No. \_\_\_\_\_  
SAI No. \_\_\_\_\_

21-Nov-23  
Date:

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Purpose: Resumption of Construction of the National Center for Teacher Education (NCTE) Building (formerly the PNU Convention Center and Training Center) - Phase 2

Requested by:

Approved by:

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_

John P. Natividad  
Director

DR. BERT J. TUGA  
President

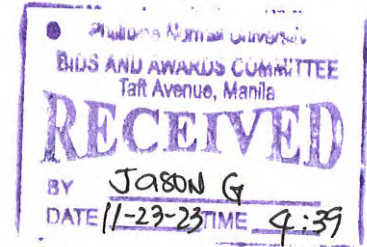
Date

21/11/2023

Name of Project: **Construction of the National Center for Teacher Education (NCTE) Building (formerly the PNU Convention Center and Training Center) - PHASE 2**

Location: **PNU MAIN CAMPUS**

Subject: **SCOPE OF WORKS**



**GENERAL:**

The Work consists of supervision, supply of materials, labor, and equipment, as well as all other items and services required to finish the Project. The Work must be fully executed and completed by the Contractor in a professional manner with the highest level of workmanship.

The Contractor must abide by all applicable laws, city ordinances, government regulations, and other legal obligations. He is accountable for any injuries to people or damage to property that may result from carrying out the Work. He is expected to study the details, confirm all dimensions on site, and bring to the attention of the Engineer any discrepancy for clarification.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.
4. PCAB Category C & B with specialization/classification of waterproofing small b and electrical works small b.
5. This shall include all the following documents during bid opening:
  - a. Bid prices in the Bill of Quantities;
  - b. 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;
  - c. Detailed Unit Price Analysis (DUPA); and
  - d. Cash flow by quarter or payment schedule
6. The Contractor shall employ the following Key Personnel:
  - a. Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials

Engineer. Bidder shall submit during bid opening the photocopy of PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.

7. Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.
8. The bidder shall submit a technical data sheet and evidences (in the form of manufacturer sales literature/catalogs/brochures). The technical data sheet and evidences shall be part of the criteria for evaluation.
9. The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS) during bid opening. A certificate of site inspection will be given to the bidder/s who procured the bid documents.
10. Subcontracting is allowed subject to the compliance with the RA9184 requirements.

## **II. STRUCTURAL WORKS**

### **A. Site Preparation Works**

1. Removal of laitance and other concrete imperfections and loose waterproofing materials at fourth floor.
2. Repair/refurbishment of temporary enclosures on top of stairways
3. Disposal of debris and site cleanup.

## **III. ARCHITECTURAL WORKS**

### **A. Floor Levelling/Topping Works**

1. Application of 40 to 70mm thick floor topping/cement screed, complete with welded wire mesh reinforcements from second floor to fourth floor.

### **B. Tile Works**

1. Supply and installation of 600 x 600mm polished porcelain tiles on classrooms using heavy-duty tile adhesive.

### **C. Waterproofing Works at 4F**

1. Complete surface preparation works prior to application of waterproofing.
2. Supply and application of bituminous primer.
3. Supply and application of torch-applied waterproofing membrane.

## **IV. ELECTRICAL WORKS**

1. Supply and installation of electrical roughing-ins.

2. Supply and installation of electrical wiring devices: switches and outlets.
3. Supply and installation of electrical wires and cables.
4. Supply and installation of panel boards and boxes
5. Supply and installation of lighting fixtures
6. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. No-Load, and Full Load Test Result
  - c. Continuity Test Result
  - d. Live test Result
7. As-built electrical drawings showing the updated electrical system.

#### **SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

#### **V. SPECIFICATIONS**

##### **V.1 Waterproofing Membrane**

Application of Bituminous Primer Materials	<p>The following supplies should be utilized when applying bituminous primer:</p> <ul style="list-style-type: none"> <li>• Bituminous Primer</li> <li>• Roller Brush with Handle and Tray</li> <li>• 4" Paint Brush</li> </ul> <p><b>Modified Bituminous Primer</b></p> <p>Asphalt mixed with modifiers to guarantee the aging properties with increased resistance to hot and cold temperatures and to give the membrane strong adherence.</p> <p>A material which can be exposed to the sun, it should be treated with fine granulated mineral finish a factory applied during production. The core should be reinforced by non-woven polyester mat which stretches up to 30%. This feature allows the membrane to accommodate thermal shocks and excessive roof movement, a burn off film that can act as a heat gauging device. See physical</p>
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	properties below:	
	Reinforce (Nonwoven Polyester)	180 gm/sq.m.
	Softening Point	143°C
	Flow Resistance	120°C
	Cold Flexibility	-5°C
	Watertightness	60Kpa
	Water Vapor Transmission	13.30/sq.m
	Tensile Strength	300N / 5cm
	Elongation at break	>46%
	Tear Resistance	140 N
	Modified Asphalt	APP and ABS
	Surface Finish	Granular and Mineral
	Graduated Surface (Thickness)	4.0 mm
	Mineral Surface (Weight)	4.5 kg/sq.m.
	Protective Coatings	Water based fixing varnish that dries to a transparent finish Drying time at 20° at 1 hour; Application temperature at +5° C +35° C
	Roll Size	1m width x 10 length
	Color	As per approved sample

Application of Top Layer Membrane	<ul style="list-style-type: none"> <li>• Torch-apply one layer of membrane 4 mm. Each side and end lap joint should be spaced apart from the preceding layer's joints. Maintaining the 100 mm side lap and 150 mm end lap via end lap alignment results in a more aesthetically pleasing finished appearance.</li> <li>• After the membrane installation is complete; all exposed perimeter edges must be sealed by the installation of pressure seal.</li> </ul>
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V.2 The following materials below shall conform to the Bureau of Philippine Standards of the Department of Trade and Industry (DTI-BPS). The bidder shall provide technical data sheets and evidences for the following items:

- Tiles
- Electrical Wires
- Circuit Breaker
- PVC

**VI. The bidder shall have equipment and tools to be supported with a proof of ownership with certification of availability of the equipment from the owner for the duration of the project. Below are the equipment and tools:**

1. Gondola as lifting materials and equipment
2. Inverter Welding Machine 200A
3. Laser Leveling
4. Boom truck 2.8t Capacity
5. Mini Dump truck 4200 capacity

*Structural and Architectural Works*

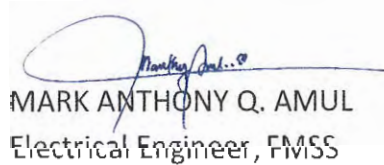
Prepared by:



ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

*Electrical Works*

Prepared by:



MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Submitted by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS

Project: Construction of the National Center for Teacher Education (NCTE) Building (formerly the PNU Convention Center and Training Center)  
- PHASE 2  
PNU Main Campus

Subject: BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST		TOTAL UNIT COST	AMOUNT
				MATERIAL	LABOR & EQUIPMENT		
<b>I</b>	<b>GENERAL REQUIREMENTS</b>						
1.0	Mobilization	1.00	lot	-	-	100,000.00	100,000.00
2.0	Temporary Facilities	1.00	lot	-	-	120,000.00	120,000.00
3.0	Safety and Security	1.00	lot	-	-	200,000.00	200,000.00
	<b>Subtotal (General Requirements)</b>						<b>420,000.00</b>
<b>II</b>	<b>STRUCTURAL WORKS</b>						
1.0	Site Preparation Works						
1.01	Removal of laitances and other concrete imperfections, including loose waterproofing materials	1.00	lot	-	-	66,760.00	66,760.00
1.02	Repair/refurbishment of temporary enclosures on top of stairways to fix water leaks and other issues	2.00	sets	-	-	41,650.00	83,300.00
1.03	Disposal of debris and site cleanup	1.00	lot	-	-	84,750.00	84,750.00
	<b>Subtotal (Structural Works)</b>						<b>234,810.00</b>
<b>III</b>	<b>ARCHITECTURAL WORKS</b>						
1.0	Floor Levelling/Topping (40 to 75mm thick, verify) (Including welded wire mesh reinforcement: Ø6mm wire diameter, 150 x 150mm mesh hole)						
1.01	Fourth Floor (4F)	887.80	m²	683.50	300.00	983.50	873,151.30
1.02	Third Floor (3F)	887.80	m²	683.50	300.00	983.50	873,151.30
1.03	Second Floor (2F)	887.80	m²	683.50	300.00	983.50	873,151.30
1.04	Mezzanine	-	m²	683.50	300.00	983.50	-
2.0	Tile Works (submit technical data sheet or evidences)						
2.01	3F Classrooms: 600mm x 600mm polished porcelain tiles (on heavy-duty tile adhesive)	655.90	m²	1,215.00	400.00	1,615.00	1,059,278.50
2.02	2F Classrooms: 600mm x 600mm polished porcelain tiles (on heavy-duty tile adhesive)	655.90	m²	1,215.00	400.00	1,615.00	1,059,278.50
3.0	Waterproofing Works at 4F (submit technical data sheet or evidences)						
3.01	Torch-applied waterproofing membrane, 4.5 kg/sq.m., granulated, complete with bituminous primer	887.80	sq.m.	725.00	325.00	1,050.00	932,190.00
	<b>Subtotal (Architectural Works)</b>						<b>5,670,200.90</b>
<b>III</b>	<b>ELECTRICAL WORKS</b>						
	<b>Ground Floor</b>						
1.0	<b>Roughing-ins</b>						
1.01	20 mm Ø PVC pipe	75.00	pcs	141.00	42.30	183.30	13,747.50
1.02	4" x 4" Octagonal Junction box (metal) ga.16	45.00	pcs	57.00	17.10	74.10	3,334.50
1.03	2" x 4" Utility box (metal) ga.16	20.00	pcs	45.00	13.50	58.50	1,170.00
1.04	Square box ga. 16	10.00	pcs	86.00	25.80	111.80	1,118.00
2.0	<b>Wires and Cable (submit technical data sheet or evidences)</b>						
2.01	3.5 sqmm THHN Stranded Wire 150m/box	20.00	box	5,250.00	1,575.00	6,825.00	136,500.00
2.02	22.0 sqmm THHN Stranded Wire	150.00	lm	298.00	89.40	387.40	58,110.00
3.0	<b>Wiring Devices (submit technical data sheet or evidences)</b>						
3.01	One-Gang Single Switch Wide Series	6.00	set	199.50	59.85	259.35	1,556.10
3.02	Two-Gang Single Switch Wide Series	5.00		284.00	85.20	369.20	1,846.00
3.03	Three-Gang Single Switch Wide Series	4.00	set	332.00	99.60	431.60	1,726.40
3.04	One-Gang Outlet	22.00	set	199.50	59.85	259.35	5,705.70
3.05	Duplex Convenience Outlet Wide Series	23.00	set	430.00	129.00	559.00	12,857.00
3.06	GFCI Outlet	1.00	set	2,500.00	750.00	3,250.00	3,250.00
3.07	Hand Dryer Outlet	3.00	set	320.00	96.00	416.00	1,248.00

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST		TOTAL UNIT COST	AMOUNT
				MATERIAL	LABOR & EQUIPMENT		
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet or evidences)</b>						
4.01	Lighting Panel 1 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	95,325.00	28,597.50	123,922.50	123,922.50
	Main:80AT,3P, 240 Volts, 60Hz,100 AF, 15 KAIC MCB						
	Branches:18						
	15-20AT 2P, 240 Volts, 10 KAIC 60 Hz,MCB						
4.02	Power Panel 1 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	104,325.00	31,297.50	135,622.50	135,622.50
	Main:80AT,3P, 240 Volts, 60Hz,100 AF, 15 KAIC MCB						
	Branches:20						
	17-20AT 2P, 240 Volts, 10 KAIC 60 Hz, MCB						
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet or evidences)</b>						
5.01	2 x 18 Watts LED Pinlight DL	89.00	set	1,399.75	419.93	1,819.68	161,951.08
5.02	1 x 18 Watts LED Tubular Light Box type (DL)	28.00	set	1,099.75	329.93	1,429.68	40,030.90
5.03	2-18 Tubular LED in Troffer Type Fixture	8.00	set	2,620.00	786.00	3,406.00	27,248.00
5.04	1200 mm LED Cove Lights T5 WW	128.00	set	895.50	268.65	1,164.15	149,011.20
5.05	2 X10 Watts LED Emergency Light	12.00	pcs	1,999.75	599.93	2,599.68	31,196.10
5.06	Exhaust FanCeiling Mounted 12"	5.00	pcs	1,950.00	585.00	2,535.00	12,675.00
5.07	LED Exit Light	5.00	pcs	1,599.75	479.93	2,079.68	10,398.38
	<b>Mezzanine</b>						
<b>1.0</b>	<b>Roughing-ins</b>						
1.01	20 mm Ø PVC pipe	100.00	pcs	141.00	42.30	183.30	18,330.00
1.02	4" x 4" Octagonal Junction box (metal) ga.16	50.00	pcs	57.00	17.10	74.10	3,705.00
1.03	2" x 4" Utility box (metal) ga.16	30.00	pcs	45.00	13.50	58.50	1,755.00
1.04	Square box ga. 16	10.00	pcs	86.00	25.80	111.80	1,118.00
<b>2.0</b>	<b>Wires and Cable (submit technical data sheet or evidences)</b>						
2.01	3.5 sqmm THHN Stranded Wire 150m/box	25.00	box	5,250.00	1,575.00	6,825.00	170,625.00
2.02	8.0 sqmm THHN Stranded Wire	100.00	lm	102.00	30.60	132.60	13,260.00
2.03	38.0 sqmm THHN Stranded Wire	75.00	lm	498.00	149.40	647.40	48,555.00
<b>3.0</b>	<b>Wiring Devices (submit technical data sheet or evidences)</b>						
3.01	One-Gang Single Switch Wide Series	5.00	set	199.50	59.85	259.35	1,296.75
3.02	Two-Gang Single Switch Wide Series	15.00		284.00	85.20	369.20	5,538.00
3.03	One-Gang Outlet	35.00	set	199.50	59.85	259.35	9,077.25
3.04	Duplex Convenience Outlet Wide Series	113.00	set	430.00	129.00	559.00	63,167.00
3.05	GFCI Outlet	1.00	set	2,500.00	750.00	3,250.00	3,250.00
3.06	Hand Dryer Outlet	4.00	set	320.00	96.00	416.00	1,664.00
3.07	Floor Mounted Outlet	10.00	set	3,899.75	1,169.93	5,069.68	50,696.75
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet or evidences)</b>						
4.01	Lighting Panel Mezzanine Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	72,300.00	21,690.00	93,990.00	93,990.00
	Main:40AT,3P, 240 Volts, 60Hz,50 AF, 15 KAIC MCB						
	Branches:16						
	13-20AT 2P, 240 Volts, 10 KAIC 60 Hz, MCB						
4.02	Power Panel 1 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	111,325.00	33,397.50	144,722.50	144,722.50
	Main100AT,3P, 240 Volts, 60Hz,100 AF, 15 KAIC MCB						
	Branches:20						
	19-20AT 2P, 240 Volts, 10 KAIC 60 Hz, MCB						
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet or evidences)</b>						
5.02	2 x 18 Watts LED Pinlight DL	66.00	set	1,399.75	419.93	1,819.68	120,098.55
5.03	1 x 18 Watts LED Tubular Light Box type (DL)	14.00	set	1,099.75	329.93	1,429.68	20,015.45
5.04	1-18 Tubular LED in Troffer Type Fixture	103.00	set	2,050.00	615.00	2,665.00	274,495.00
5.05	2 X10 Watts LED Emergency Light	22.00	pcs	1,999.75	599.93	2,599.68	57,192.85
5.06	Exhaust FanCeiling Mounted 12"	4.00	pcs	1,950.00	585.00	2,535.00	10,140.00
5.07	LED Exit Light	9.00		1,599.75	479.93	2,079.68	18,717.08
	<b>2nd and 3rd Floor</b>						
<b>1.0</b>	<b>Roughing-ins</b>						
1.01	20 mm Ø PVC pipe	120.00	pcs	141.00	42.30	183.30	21,996.00
1.02	4" x 4" Octagonal Junction box (metal) ga.16	50.00	pcs	57.00	17.10	74.10	3,705.00
1.03	2" x 4" Utility box (metal) ga.16	30.00	pcs	45.00	13.50	58.50	1,755.00
1.04	Square box ga. 16	10.00	pcs	86.00	25.80	111.80	1,118.00



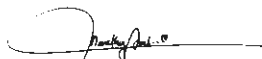
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST		TOTAL UNIT COST	AMOUNT
				MATERIAL	LABOR & EQUIPMENT		
<b>2.0</b>	<b>Wires and Cable (submit technical data sheet or evidences)</b>						
2.01	3.5 sqmm THHN Stranded Wire 150m/box	40.00	box	5,250.00	1,575.00	6,825.00	273,000.00
2.02	8.0 sqmm THHN Stranded Wire	260.00	lm	102.00	30.60	132.60	34,476.00
2.03	22.0 sqmm THHN Stranded Wire	230.00	lm	298.00	89.40	387.40	89,102.00
2.04	400 sqmm THHN Stranded Wire	150.00	lm	976.00	292.80	1,268.80	190,320.00
<b>3.0</b>	<b>Wiring Devices (submit technical data sheet or evidences)</b>						
3.01	One-Gang Single Switch Wide Series	2.00	set	199.50	59.85	259.35	518.70
3.02	Two-Gang Single Switch Wide Series	24.00	set	284.00	85.20	369.20	8,860.80
3.03	Three-Gang Single Switch Wide Series	2.00	set	332.00	99.60	431.60	863.20
3.04	One-Gang Outlet	46.00	set	199.50	59.85	259.35	11,930.10
3.05	Duplex Convenience Outlet Wide Series	80.00	set	430.00	129.00	559.00	44,720.00
3.06	Hand Dryer Outlet	12.00	set	320.00	96.00	416.00	4,992.00
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet or evidences)</b>						
4.01	Lighting Panel 2&3 Circuit Breakers (Bolt-On Miniature Type)	2.00	assy	75,325.00	22,597.50	97,922.50	195,845.00
	Main:50AT,3P, 240 Volts, 60Hz,50 AF, 15 KAIC MCB						
	Branches:18						
	14-20AT 2P, 240 Volts, 10 KAIC 60 Hz,MCB						
4.02	Power Panel 2&3 Circuit Breakers (Bolt-On Miniature Type)	2.00	assy	106,325.00	31,897.50	138,222.50	276,445.00
	Main:80AT,3P, 240 Volts, 60Hz,100 AF, 15 KAIC MCB						
	Branches:16						
	1-50AT 3P,12-20AT 2P 240 Volts, 10 KAIC 60 Hz, MCB						
4.03	Distribution Panel 2 (DPE-2) Circuit Breakers MCCB	1.00	assy	298,654.00	89,596.20	388,250.20	388,250.20
	Main:500 AT,3P, 240 Volts, 60Hz,100 AF, 20 KAIC MCCB						
	Branches:10						
	5-80AT 3P 15 KAIC,1-60AT 3P 15 KAIC, 240 Volts, 60 Hz, MCCB						
	2-30AT 3P 15 KAIC,1-100AT 3P 15 KAIC, 240 Volts, 60 Hz, MCCB						
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet or evidences)</b>						
5.01	2 x 18 Watts LED Pinlight DL	70.00	set	1,399.75	419.93	1,819.68	127,377.25
5.02	1 x 18 Watts LED Tubular Light Box type (DL)	26.00	set	1,099.75	329.93	1,429.68	37,171.55
5.03	1-18 Tubular LED in Troffer Type Fixture	224.00	set	2,050.00	615.00	2,665.00	596,960.00
5.04	Exhaust FanCeiling Mounted 12"	12.00	pcs	1,950.00	585.00	2,535.00	30,420.00
5.05	Industrial Orbit Fan 18" Blade	80.00	set	2,899.75	869.93	3,769.68	301,574.00
5.06	2 X10 Watts LED Emergency Light	30.00	pcs	1,999.75	599.93	2,599.68	77,990.25
5.07	LED Exit Light	4.00		1,599.75	479.93	2,079.68	8,318.70
<b>6</b>	<b>Miscellaneous</b>						
6.01	Electrical Tape	100.00	pcs	65.00	19.50	84.50	8,450.00
6.02	G.I. pull wire	20.00	kgs	75.00	22.50	97.50	1,950.00
6.03	butane gas	10.00	pcs	120.00	36.00	156.00	1,560.00
6.04	torch head	3.00	pcs	750.00	225.00	975.00	2,925.00
6.05	hacksaw blade	5.00	pcs	115.00	34.50	149.50	747.50
6.06	1" Black Screw	20.00	box	250.00	75.00	325.00	6,500.00
6.07	# 6 Plastic Tox	20.00	box	150.00	45.00	195.00	3,900.00
6.08	Drill Bit	5.00	pcs	150.00	45.00	195.00	975.00
6.09	4" Concrete Cutting Disc	10.00	pcs	750.00	225.00	975.00	9,750.00
6.1	Consumables	1.00	lot	10,000.00	3,000.00	13,000.00	13,000.00
<b>7</b>	<b>Testing and Commissioning</b>						
7.01	Testing and Commissioning	1.00	lot	-	-	60,000.00	60,000.00
	<b>Subtotal (Electrical Works)</b>						<b>4,903,100.28</b>
	<b>TOTAL DIRECT COST</b>						<b>11,228,111.18</b>
	<b>INDIRECT COST</b>						
	OCM						1,296,973.34
	Contractor's profit						864,648.89
	VAT						1,606,768.01
	<b>TOTAL COST</b>						<b>14,996,501.42</b>

Structural and Architectural Works  
Prepared by:


Electrical Works  
Prepared by:

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST		TOTAL UNIT COST	AMOUNT
				MATERIAL	LABOR & EQUIPMENT		

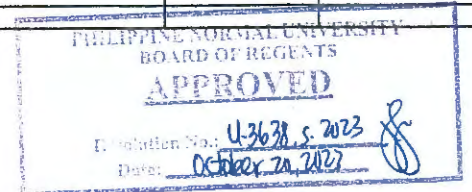
  
 ALFREDO G. ALARCON, JR.  
 Civil Engineer, FMSS

  
 ALFREDO G. ALARCON, JR.  
 Civil Engineer, FMSS

Recommended by:

  
 PROF. JOHN P. NATIVIDAD  
 Director, FMSS

Code (PAP)	Procurement Program/Project	PMO/End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated/Actual Budget (Php)			Remarks (brief description of Program/Activity/Project)
					Advertisement/Posting of IB/REI	Submission/Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	CO	
B. LOCALLY FUNDED PROJECTS													
C	Maintenance and Other Operating Expenses (MOOE)												
1	Construction of the National Center for Teacher Education (NCTE) Building (formerly the PNU Convention Center and Training Center) - Phase 2	OP	YES	Public Bidding/AMP	4th Quarter 2023		Jan-Feb 2024 (based on release of GAA 2024)		GAA	15,000,000.00		15,000,000.00	
2	Higher Education Research and Innovation Project	VPRPQA	No	Public Bidding/AMP	1st -4th Quarter				GAA	3,000,000.00	3,000,000.00		
	Other Maintenance and Operating Expenses												
3	Capacity Development on Futures Thinking and Strategic Foresight				1st -4th Quarter								
	Research Exploration and Development Expenses	VPA	No	Public Bidding/AMP					GAA	2,000,000.00	2,000,000.00		
Sub Total-Locally-Funded Projects										20,000,000.00	5,000,000.00	15,000,000.00	
C. EXTERNAL FUNDED PROJECTS													
1	Funding for RCTQ	VPRPQA			1st -4th Quarter								
	(Equipment -IT Laptop, desktop, and other computing device, furniture and appliances, Office supplies, materials, Travel airfare, transportation and insurance expenses, Training, workshop and related events supplies, with food and hotel accommodation services, rental of vehicles, communication expenses such as prepaid cards, repair and maintenance.		No	Public Bidding/AMP					TL	5,000,000.00	5,000,000.00		
2	Linking Standards and Quality Practice (LisQUP)	VPA	No	Public Bidding/AMP	1st -4th Quarter				TL	20,000,000.00	15,000,000.00	5,000,000.00	
	Office Equipment												
	Office Supplies												
	Training Expenses - Venues												
	Communication Expenses - call cards												
	Subscription Expense - video conferencing and others												
	Other Supplies and Materials												
3	DOST (NRCP) Policy Analysis of the K to 12 Assessment for Quality Reform Efforts	VPRPQA	No	Public Bidding/AMP	1st -4th Quarter				TL	700,000.00	700,000.00		
	Office Equipment												
	Office Supplies												
	Training Expenses - Venues												
	Communication Expenses - call cards												
	Subscription Expense												
	Other Supplies and Materials												



## AGENCY

~~23102041~~

Department: FMSS  
Section:

PR No. \_\_\_\_\_  
SAI No. \_\_\_\_\_

13/5/2022  
Date:

[illegible]

Purpose: Repair, Improvement, and Maintenance for Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment

Requested by:

Approved by:

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_

JOHN P. NATIVIDAD

Director

DR. BERT J. TUGA

President

Date \_\_\_\_\_

13/5/2021



## **Electrical Scope of Works**

Project: Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment

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Location: PNU, TAFT MANILA

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### **DIVISION 1**

### **Electrical Works General Requirement**

#### **GENERAL DESCRIPTION**

All work covered in this contract shall be executed in the highest form of workmanship and quality of materials. The Contractor shall be responsible to check all the numbers and units as may be indicated in the Drawings or Specifications and shall supply and install the actual required units called for.

### **DIVISION 2**

### **Mobilization and Demobilization**

#### **2.1 EXAMINATION OF SITE**

The contractor shall visit the site of the works and examine the premises so as to fully understand all of the existing conditions relative to the works. No increase in cost of extension in performance time will be considered for failure to know its conditions.

#### **2.2 CLEANING**

- A. Upon completion of work, remove and dismantle from the site the Contractor's materials, equipments/tools, temporary facilities and debris.
- B. Leave premises clean and orderly after completion of the Contract Work.

### **DIVISION 3**

### **BASIC MATERIALS AND METHODS**

#### **A. General Description**

All works shall be in accordance with the governing Codes and Regulations and with the Specifications, except those were same shall conflict with such codes, etc. which latter shall then govern.

#### **B. Work Included**

Under this division, provide all labor, materials and equipment and perform all the work necessary for the complete execution of all the Electrical Work in accordance with the drawings and contract and as herein specified or both except as otherwise excluded, and which, without excluding the generality of the foregoing, shall include not limited to the following principal items of work:

##### **1.1 Furnish and Install the Following:**

- i. All conduits and wiring as shown on plans.
- ii. All circuit breakers, panel boards, disconnect and other protective devices as required on plan.
- iii. A complete lighting system to include conduits, wiring and wiring devices.
- iv. All lighting fixtures as specified on the plans.
- v. All wiring and conduit system for power.'
- vi. All wiring devices, junction boxes, pull boxes, wire gutters, and wiring supports necessary for the complete work of the electrical system.

##### **1.2 Perform all termination of the electrical system.**

- 1.3 Perform chiseling, concreting, boring holes on concrete or masonry and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
- 1.4 Complete testing of the electrical system.

**C. Codes, Inspections**

- 1.1 The work under this contract is to be installed according to the requirements of the latest edition of the Philippine Electrical Code, the rules and regulations of the local authorities and the requirements of local power company.

**D. Record Drawings**

The Contractor shall, during the progress of work, keep and careful record of all changes where the actual installation differs from that shown on the Contract Drawings. These drawings shall be submitted to the Engineer for approval.

**E. Guarantees**

- 1.1 The Contractor shall guarantee that the electrical systems are free from all shorts, grounds and from defective workmanship and materials and will remain so for a period of one year from date of acceptance of work. The Contractor, at his own expense, shall remedy any defect, appearing within aforementioned period.
- 1.2 The Contractor shall indemnify and save harmless the Owner and the Engineer from against and all liabilities for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor or any of his Subcontractors, including any and all expense legal or otherwise, which maybe incurred by the Owner, or the Engineer in the defense of any claim, action or suit.

**F. Workmanship**

- 1.1 The work throughout shall be executed in the best and the most thorough manner under the direction of the Contractor and to the satisfaction of the Owner and Engineer who will jointly interpret the meaning of the drawings and specifications and shall have the authority to reject any work or materials which, in their judgment, are not in full accordance therewith.

**G. Standard Materials**

- 1.1 All materials shall be new and shall conform to the standards of the Underwriter's Laboratories Inc., USA, USASI, NEMA, ICEA, UL, ISO and ASTM in every case where such standards have been established for the particular type of material in question.
- 1.2 The Contractor/ Engineer shall submit samples of any materials for approval

**H. Installation Requirements**

- 1.1 Approval of Materials  
All electrical materials shall be new and shall meet the requirements and shall bear the inspection label wherever standards have been established
- 1.2 Ground Test  
The entire installation shall be free from improper grounds and from short circuit. These shall be made in the presence of representative of the Owner. In no case shall the insulation resistance be less than that allowed by the Regulation for Electrical Equipment of Buildings. Failure shall be corrected in a manner satisfactory to the Engineer.
- 1.3 Performance Test  
It shall be the responsibility of the Contractor to test the electrical installation for proper operational conditions.

**I. Wires and Cables**

- 1.1 All wires shall be copper soft drawn and annealed, shall be of 99% conductivity, shall be smooth and true of a cylindrical form and shall be within 1% of the actual size called.



- 1.2 Wires and Cables for power and lighting system shall be plastic insulated for 600 volts working pressure type "THHN", Phelps dodge brand or approved equal.
- 1.3 All wires 3.5mm sq. or larger shall be stranded.
- 1.4 For lighting and power systems no wire smaller than 3.5mm sq. shall be used unless otherwise specified.
- 1.5 Provide color-coding for all feeder and branch circuit conductors. Color shall be green for grounding conductors and white neutrals.
- 1.6 Provide grounding conductor for the whole electrical system. Minimum grounding conductor size shall be 3.5mm sq. Unless otherwise specified.

**J. Conduits**

- 1.1 No wire shall be pulled into any conduit until the conduit system smaller 15mm diameter electric trade size nor shall have more than four (4) 90 degree bends in any one run and where necessary, pull boxes shall be provided.
- 1.2 No wire shall be pulled into any conduit until the conduit system is complete in all details, in the case of concealed work until all rough plastering or masonry has been completed and, in the case of exposed work until the conduit work has been completed in every detail.
- 1.3 All pipes and fittings in exposed work shall be secured by means of metal clips, which shall be held in place by means of machine screw. All pipes on exposed work shall be run at right angles to parallel in the surrounding walls. No diagonal runs shall be allowed and all bends and offsets shall be avoided as much as possible. Conduits in all cases shall be run perfectly straight and true, and satisfactory to the Engineer. Conduits shall be supported at 1 meter intervals maximum.

**K. Junction and Pull Boxes**

Junction and pull boxes shall be provided as indicated or as required for facilitating the pulling of wires and cables. Location shall approve by the Engineer.

**L. Wall Switches, Outlets and Plates**

- 1.1 Wall switches shall be rated at 10-15 amperes, 250 volts. Switches and outlets shall be flush mounting type. Appropriate samples shall be submitted prior to purchase of wall switches, outlets and faceplates.
- 1.2 All utility boxes intended for switch and outlet devices shall be specially designed to receive the particular type of switch and outlet device to be mounted and shall be submitted prior to purchase of wall devices to be mounted and should be deep enough to accept and fit the total numbers of conductors required as per drawings.

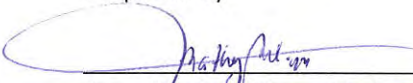
**DIVISION 4**

**SUBMITTALS**

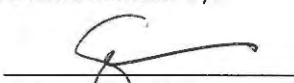
- 4.1 Insulation Test Result, No-Load and Full Load Test Result, Ground Test Results/Report
- 4.2 As-Built Plans in 20"x 30" Tracing Paper and (5) copies of Blue Print signed and sealed by a Professional Electrical Engineer
- 4.3 AutoCAD file of As-built Plan in USB

**END OF SCOPE OF WORKS**

Prepared by:

  
**Engr. Mark Anthony Q. Amul**  
Registered Electrical Engineer  
PRC Reg. No. 0074155

Recommended by:

  
**John P. Natividad**  
Director, FMSS

Name of Project: **REPAIR AND RENOVATION OF 3F CLASSROOMS**  
3F ITL High School Building

Subject: **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II. STRUCTURAL AND ARCHITECTURAL WORKS**

**III. 3F AND 4F CLASSROOMS**

**A. Demolition and Disposal Works**

1. Demolition of masonry walls and cutting out for new doorways.
2. Removal of wooden partitions and ceilings, including all attachments.
3. Removal of doors and windows.
4. Removal of floor toppings and loose wall cement plasters and finishes.
5. Disposal of debris and site cleanup.



**B. Masonry Works**

1. CHB laying on door and window slots along hallways.
2. Plastering/re-plastering and repair of new and existing masonry walls.
3. Floor topping and leveling works.

**C. Partition Works**

1. Installation of drywall partitions: fiber cement boards on light gage metal framing, both faces, complete with rockwool insulations and rubber wall bases.

**D. Ceiling Works**

1. Installation of ceiling on classrooms: fiber cement boards on light gage metal framing, complete with cornices.
2. Installation of ceiling on hallways: fiber cement boards on light gage metal framing, complete with cornices.

**E. Painting/Repainting Works**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. Floor painting using rubberized floor paint or water based acrylic epoxy paint.
3. Painting/repainting of interior masonry and fiber cement board surfaces using acrylic latex paint.
4. Painting of fiber cement board ceiling using textured paint top coated with acrylic latex paint.
5. Painting of non-structural steel and wood finishes using alkyd enamel paints.

**F. Glass Works**

1. Supply and installation of classroom doors; tempered glass in anolok aluminum frame with heavy-duty hardware.
2. Supply and installation of windows; tempered glass in anolok aluminum frame, 9-leaf awning-type.
3. Supply and installation of magnetic glassboards; tempered glass complete with frames and mounting boards, with adjustable marker trays and holders.

### **SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

### **SPECIAL NOTES AND REQUIREMENTS:**

1. Since the project will be done inside the premises of the school, the Contractor is required to maintain good relations with all the people they may interact with.
2. The Contractor shall keep the job site safe and clean at all times in accordance with the standard construction safety and housekeeping procedures.
3. In general all unsuitable and or excess materials shall be disposed of regularly. Stockpile of the said excess materials inside the building shall not be allowed. The method of discharge shall meet the school and building regulations.

### **TECHNICAL SPECIFICATIONS**

#### **GENERAL NOTES:**

1. The Contractor is expected to review the specifications and to verify all measurements and dimensions at the site. In case of discrepancy in details and dimensions; it shall be brought to the attention of the Engineer for clarification.
2. All works shall be done in the best workmanship manner and in accordance with the local practice of highest industry-accepted standards.
3. All materials shall be subject to approval. The Contractor shall submit the material technical data and/or samples appropriately.

#### **DEMOLITION WORKS**

1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary for the demolition works as described in the Scope of Works.

2. Execute demolition works in such a manner as to ensure the protection of adjacent properties against damage.
3. Remove, as it accumulates, debris resulting from demolition. Woods and other combustible materials must not be burned on site.

## **FIBER CEMENT BOARD**

1. Submittals
  - a. Material Technical Data
  - b. Samples:
    - i. Two 300mm square boards of each required type.
    - ii. Two 300mm long of each type of metal furring.
2. Materials: Unless otherwise necessary, materials shall be supplied by only one manufacturer.
  - a. Fiber cement board:
    - i. Thickness: 4.5mm for ceiling, squared edges
    - ii. Fire rating: more than 2 hours
    - iii. See table for Physical Properties
  - b. Suspension members for ceiling:
    - i. Hangers: Galvanized hangers, approximately 2.7mm diameter soft steel wire or minimum 6mm diameter threaded rods shall be used.
    - ii. Carrying channel: Cold-rolled galvanized channels, 1.0mm thk, 38mm depth shall be used.
    - iii. Furring channels: Cold-rolled galvanized steel channels, 0.5mm thk, minimum 19mm flange depth shall be used.
  - c. Fasteners: For all applications involving drywall, comply with the manufacturer's recommendations.
3. Installation:
  - a. General:
    - i. Install all materials and systems in accordance with the manufacturer's instructions unless otherwise shown or directed.
    - ii. Install the maximum practical lengths of fiber cement or plasterboard to span ceiling with a minimum number of end butt joints.
    - iii. Apply pressure to the surface of wallboard while fastener is being driven to ensure that wallboard will be secured tightly to the supporting frame.

b. Ceiling:

- i. Provide hangers and inserts necessary to support suspended ceilings, giving attention to the correct location and alignment.
- ii. Provide frames for all openings with furring strips so that recessed items shall finish flush with the ceiling, unless otherwise shown on drawings.
- iii. Provide sufficient hangers on each side of lighting fixtures, diffusers, and other similar items.
- iv. Secure furring channels to primary suspension runners/carrying channels by appropriate clips. Space furring channels at 0.40m on centers or as recommended by the wallboard manufacturer, whichever is smaller.

4. Quality Control Verification Items:

- a. Sample, type, specification, dimension, color pattern, appearance, and dryness of material in comparison with the sample.
- b. Method and sequence of installation.
- c. Reference mark and layout
- d. Spacing, alignment, plumbness, deformation (if any)
- e. Detail of connection.
- f. Fastening condition of boards.
- g. Cleaning of exposed surfaces.
- h. Protection.

## **PAINTING AND REPAINTING WORKS**

1. Submittals

- a. Material Lists
- b. Material Technical Data
- c. Manufacturer' Standard Color Chart
- d. Samples:
  - i. Two representative samples of each finish coat on 200mm x 200mm palettes.

2. Painting System

- a. Concrete, Cement Plaster

Surface preparation:

Application of neutralizer and cleaning



Prime coat:	Flat latex, cementitious skim coat or cement paint putty
Topcoat:	Acrylic latex paint
Color and sheen:	Refer to approved sample
b. Fiber Cement Substrates	
Surface preparation:	Patching holes and other minor imperfections
Prime coat:	Flat latex, gypsum joint compound
Topcoat:	Acrylic latex paint
Color and sheen:	Refer to approved sample
c. Metal Surfaces	
Surface preparations:	SP-3 Surface Preparation Standards
Prime coat:	Red oxide metal primer
Topcoat:	Alkyd based paint
Color and sheen:	Refer to approved sample
d. Wood Surfaces	
Surface preparations:	Sanding, dusting, and cleaning
Prime coat:	Flatwall enamel, glazing putty
Topcoat:	Alkyd based paint
Color and sheen:	refer to approved sample
e. Repainting of Concrete and Cement Plaster	
Surface preparations:	Remove all loose and unsuitable paint and lightly sand smooth painted surfaces.
Prime coat:	Flat latex, cementitious skim coat or cement paint putty
Topcoat:	Acrylic latex paint
Color and sheen:	Refer to approved sample

### 3. Quality Control Verification Items:

- a. Extent, classification, method, sequence of painting work.
- b. Type, property, specification, tone, color, luster in comparison with approved sample.
- c. Preparation of substrate and cleaning method.

- d. Applicability and condition of equipment.
- e. Weather at the time of painting.
- f. ~~Number of coats and duration between coatings.~~
- g. Quality and condition of paint as to tone, color, luster, evenness, etc.
- h. Appearance of loose or any unsuitable paint and foreign materials.
- i. Protection from paint drop

#### **4. Execution**

- a. Examine substrates and conditions, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- b. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
- c. Apply paints according to manufacturer's written instructions.
- d. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- e. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- f. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- g. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- h. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and re-finishing, as approved by Engineer, and leave in an undamaged condition.

#### **Additional Requirements and Documents to be Submitted on Bid Opening:**

- The bidder/s must conduct an onsite inspection of the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category C and D

- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of the latest PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- If the bidder is existing contractor of PNU, the contractor must secure a certificate of no slippage.
- Subcontracting is allowed subject to compliance with the RA9184 requirements.

Prepared by:



ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

Recommended by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS

Project: PROPOSED SMART CLASSROOMS  
 Location: 3F ITL HS Building  
 Subject: BILL OF QUANTITIES

Date: 4/26/2022

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
I	<b>GENERAL REQUIREMENTS</b>				
1.00	Mobilization and demobilization	1.00	lot	30,000.00	30,000.00
2.00	Construction Health and Safety	1.00	lot	30,000.00	30,000.00
3.00	Temporary facilities	1.00	lot	25,000.00	25,000.00
	<b>Subtotal (General Requirements)</b>				<b>85,000.00</b>
II	<b>STRUCTURAL AND ARCHITECTURAL WORKS</b>				
1.00	<b>Demolition and Disposal Works</b>				
1.01	Demolition of masonry walls and cutting out for new doorways	1.00	lot	12,000.00	12,000.00
1.02	Removal of wooden partitions and ceilings, including all attachments	1.00	lot	17,500.00	17,500.00
1.03	Removal of doors and windows	1.00	lot	15,500.00	15,500.00
1.04	Removal of floor toppings and loose wall finishes	1.00	lot	23,500.00	23,500.00
1.05	Disposal of debris and site cleanup	1.00	lot	43,250.00	43,250.00
2.00	<b>Masonry Works</b>				
2.01	CHB laying, complete with 10mm rebars (on existing window and door slots along hallways)	35.90	sq.m.	550.00	19,745.00
2.02	Plastering and repair works	93.00	sq.m.	130.00	12,090.00
2.03	Floor topping/leveling	228.70	sq.m.	180.00	41,166.00
2.04	Labor and equipment	1.00	lot	29,200.00	29,200.00
3.00	<b>Partition Works</b>				
3.01	6mm thk Fiber cement board on 75 x 0.6mm light gage metal framing spaced at 0.40m, DF	83.60	sq.m.	870.00	72,732.00
3.02	Rockwool insulation, 50mm x 60kg/cu.m.	83.60	sq.m.	645.00	53,922.00
3.03	Rubber wall base, 100mm (classrooms only)	120.00	l.m.	150.00	18,000.00
3.04	Labor and equipment	1.00	lot	50,630.00	50,630.00
4.00	<b>Ceiling Works</b>				
4.01	Ceiling at Classrooms: 4.5mm thk fiber cement board on light gage metal framing	225.30	sq.m.	560.00	126,168.00
4.02	Cornice, 1" x 4"	126.30	l.m.	140.00	17,682.00
4.03	Ceiling at Hallway: 4.5mm thk fiber cement board on light gage metal framing	105.30	sq.m.	530.00	55,809.00
4.04	Cornice, 1" x 4"	107.50	l.m.	140.00	15,050.00
4.05	Labor and equipment	1.00	lot	75,150.00	75,150.00
5.00	<b>Painting/Repainting Works</b>				
5.01	Rubberized floor paint or acrylic epoxy paint on flooring, complete with crack repair and puttying	224.30	sq.m.	330.00	74,019.00
5.02	Gloss/semi-gloss latex on masonry and fiber cement board finishes	602.80	sq.m.	180.00	108,504.00
5.03	Textured paint on ceiling	330.60	sq.m.	300.00	99,180.00
5.04	Quick-drying enamel on window grilles	1.00	lot	4,500.00	4,500.00
5.05	Labor and equipment	1.00	lot	114,450.00	114,450.00
6.00	<b>Glass Works</b>				
6.01	Classroom Doors: 6.0mm thk tempered glass door in anolok aluminum frame, 0.90 x 2.10m, swing in/swing out, with heavy-duty hardware	4.00	sets	21,500.00	86,000.00
6.02	windows: 6.0mm thk tempered glass in anolok aluminum frame, 9-leaf awning-type, 1.80 x 1.50m, complete with steel grilles	10.00	sets	30,250.00	302,500.00

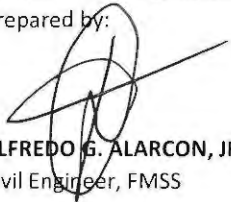


6.03	Magnetic glassboards: 4.80 x 1.20m x 6mm thk, tempered, complete with frames and mounting boards; with adjustable marker trays and holders	4.00	sets	75,153.60	300,614.40
	<b>Subtotal (Structural and Architectural Works)</b>				<b>1,788,861.40</b>
<b>III</b>	<b>ELECTRICAL AND MECHANICAL WORKS</b>				
<b>1.00</b>	<b>Roughing-ins</b>				
1.01	40 mm Φ IMC pipe (submit technical data sheet)	6.00	pcs	2,170.00	13,020.00
1.02	25 mm Φ IMC pipe (submit technical data sheet)	6.00	pcs	1,410.00	8,460.00
1.03	40 mm Φ IMC pipe locknut with bushing	6.00	pcs	115.00	690.00
1.04	25 mm Φ IMC pipe locknut with bushing	6.00	pcs	56.00	336.00
1.05	25 mm Φ PVC pipe	100.00	pcs	112.50	11,250.00
1.06	20 mm Φ PVC pipe	300.00	pcs	75.50	22,650.00
1.07	15 mm Φ flexible metal	100.00	lm	65.40	6,540.00
1.08	4" x 4" metal junction box ga. 16	100.00	pcs	57.50	5,750.00
1.09	2" x 4" metal utility box ga. 16	90.00	pcs	45.30	4,077.00
1.10	metal square box ga. 16	20.00	pcs	65.25	1,305.00
1.11	20 mm Φ PVC male adaptor w/ locknut	450.00	pcs	15.50	6,975.00
1.12	25 mm Φ PVC male adaptor w/ locknut	80.00	pcs	25.50	2,040.00
1.13	15 mm Φ connector w/ locknut and bushing	120.00	pcs	17.50	2,100.00
1.14	3/8" full thread rod	50.00	pcs	250.00	12,500.00
1.15	3/8" nut and washer	500.00	pcs	7.50	3,750.00
1.16	3/8" grip anchor	250.00	pcs	12.00	3,000.00
1.17	U-bolt 1/2 with nuts and washers	500.00	pcs	15.00	7,500.00
1.18	U-bolt 3/4 with nuts and washers	200.00	pcs	20.00	4,000.00
1.19	2"x2" angle bar	10.00	pcs	750.00	7,500.00
1.20	welding rod	5.00	kgs	120.00	600.00
1.21	G.I. pull wire #16	5.00	kgs	135.00	675.00
1.22	butane gas	10.00	pcs	85.00	850.00
1.23	torch head	2.00	pcs	750.00	1,500.00
1.24	40 mm Φ Two Hole EMT Clamp	18.00	pcs	37.66	677.88
1.25	25 mm Φ Two Hole EMT Clamp	100.00	pcs	22.50	2,250.00
1.26	20 mm Φ Two Hole EMT Clamp	200.00	pcs	17.50	3,500.00
1.27	hacksaw blade	7.00	pcs	50.00	350.00
1.28	Labor	1.00	lot	40,153.76	40,153.76
<b>2.00</b>	<b>Wires and Accessories (submit technical data sheet)</b>				
2.01	30sqmm THHN Stranded Wire	55.00	lm	222.17	12,219.35
2.02	22sqmm THHN Stranded Wire	55.00	lm	175.00	9,625.00
2.03	5.5sqmm THHN Stranded Wire	8.00	roll	8,770.00	70,160.00
2.04	3.5 sqmm THHN Stranded Wire	28.00	roll	5,250.00	147,000.00
2.05	Electrical Tape	25.00	pcs	30.00	750.00
2.06	Labor	1.00	lot	71,926.31	71,926.31
<b>3.00</b>	<b>Wiring Devices (submit technical data sheet)</b>				
3.01	One-Gang Single Switch Wide Series	3.00	set	151.50	454.50
3.02	Two-Gang Single Switch Wide Series	1.00	set	242.40	242.40
3.03	Three-Gang Single Switch Wide Series	2.00	set	332.40	664.80
3.04	One-Gang Three Way Switch Wide Series	2.00	set	282.00	564.00
3.05	Two-Gang Three Way Switch Wide Series	2.00	set	352.50	705.00
3.06	Three-Gang Three Way Switch Wide Series	8.00	set	435.30	3,482.40
3.07	GFCI Outlet	2.00	set	2,500.00	5,000.00
3.08	Aircon Outlet	8.00	set	320.00	2,560.00
3.09	One-Gang Convenience Outlet Wide Series	18.00	set	250.00	4,500.00
3.10	Duplex Convenience Outlet Wide Series	29.00	set	300.00	8,700.00
3.11	Labor	1.00	lot	8,061.93	8,061.93
<b>4.00</b>	<b>Panels and Boxes (submit technical data sheet)</b>				
4.01	LP3(Miniature type CB)	1.00	assy	38,000.00	38,000.00
	Main: 70AT,3P,10KAIC				-
	Branches: 12-20AT, 2P,10 KAIC				-
4.02	PP3(Miniature type CB)	1.00	assy	42,000.00	42,000.00

	Main: 100AT,3P,20KAIC				-
	Branches: 12-40AT, 2P 10 KAIC				-
4.03	Pullbox	1.00	set	3,500.00	3,500.00
4.04	NEMA 3R with 40 Ampere Breaker	8.00	Set	650.00	5,200.00
4.05	Labor	1.00	lot	26,610.00	26,610.00
<b>5.00</b>	<b>Lighting Fixture and Ceiling Equipment (submit technical data sheet)</b>				-
5.01	2-18 Tubular LED in Recessed Troffer Type Fixture	32.00	set	2,800.00	89,600.00
5.02	1-18 Tubular LED in Recessed Troffer Type Fixture	18.00	set	2,180.00	39,240.00
5.03	LED Emergency Light 6V	9.00	set	2,500.00	22,500.00
5.04	Lighted Exit Sign	2.00	set	1,500.00	3,000.00
5.05	Labor	1.00	lot	26,610.00	26,610.00
<b>6.00</b>	<b>IT/ Data Outlets</b>				-
<b>6.10</b>	<b>Roughing-ins</b>				-
6.1.1	20 mm Ø PVC pipe	100.00	pcs	75.50	7,550.00
6.1.2	PVC Junction Box with Cover	10.00	pcs	35.00	350.00
6.1.3	PVC Utility Box	15.00	pcs	35.00	525.00
6.1.4	20 mm Ø PVC Adapter with Locknut	50.00	pcs	15.50	775.00
6.1.5	3/8" Full Thread Rod	20.00	pcs	250.00	5,000.00
6.1.6	3/8" Nuts with Washers	90.00	pcs	7.50	675.00
6.1.7	U-bolt 1/2 with nuts and washers	100.00	pcs	15.00	1,500.00
6.1.8	2"x 2" angle bar	7.00	pcs	750.00	5,250.00
6.1.9	welding rod	2.00	kgs	120.00	240.00
6.1.10	G.I. Pull Wire	3.00	kgs	135.00	405.00
6.1.11	Butane Gas /Can	2.00	can	85.00	170.00
6.1.12	Torch Head	1.00	pcs	750.00	750.00
<b>6.20</b>	<b>Cables</b>				-
6.2.1	CAT6 UTP Cable (submit technical data sheet)	2.00	box	11,500.00	23,000.00
<b>6.30</b>	<b>IT EQUIPMENT &amp; DEVICE</b>				-
6.3.1	Single Port Data Outlet	8.00	set	750.00	6,000.00
6.3.2	Labor	1.00	lot	15,657.00	15,657.00
<b>7.00</b>	<b>ACCU (submit technical data sheet)</b>				-
7.01	2.5 HP Wall Mounted Inverter Type AC	8.00	unit	43,000.00	344,000.00
	Supply and Installation of all standard accessories, labor and materials, electrical refrigerant piping insulation and drain materials				
	Testing and Commissioning				
	<b>Subtotal (Electrical and Mechanical Works)</b>				<b>1,228,722.33</b>
	<b>TOTAL DIRECT COST</b>				<b>3,102,583.73</b>
	<b>INDIRECT COST</b>				
	OCM				452,637.56
	Contractor's profit				301,758.37
	VAT				462,837.56
	<b>TOTAL PROJECT COST</b>				<b>4,319,817.22</b>

Structural and Architectural Works

Prepared by:


  
**ALFREDO G. ALARCON, JR.**  
 Civil Engineer, FMSS

Electrical and Mechanical Works

Prepared by:

  
**ENGR. MARK ANTHONY AMUL**  
 Registered Electrical Engineer, FMSS

Recommended by:

  
**JOHN R. NATIVIDAD**  
 Director, FMSS

# DETAILED UNIT PRICE ANALYSIS (DUPA)

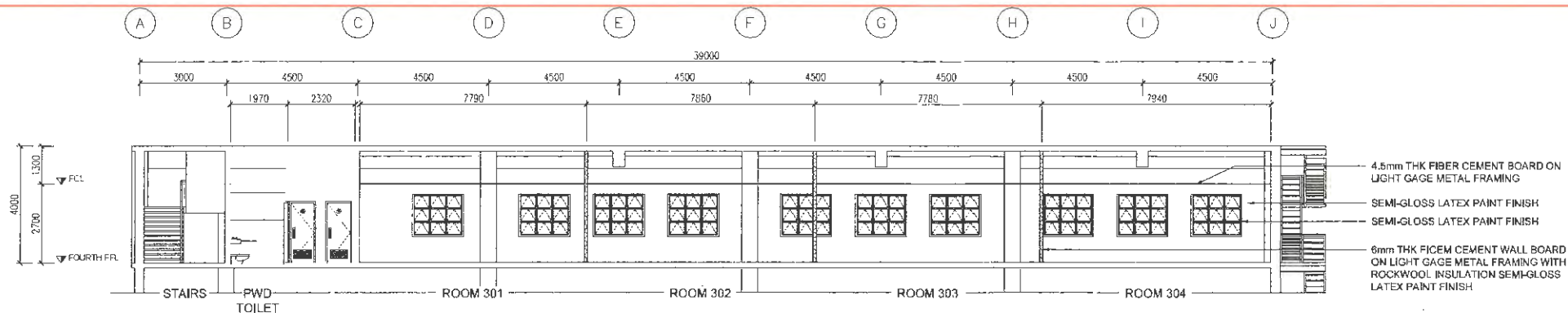
NAME OF PROJECT:  
LOCATION:

Item No. / Description  
Unit of Measurement  
Output per hour

A.	<b>Designation</b>	<b>No. of Person</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount</b>
	Labor				
	Sub-Total for A				
B.	<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Rental Rate</b>	<b>Amount</b>
	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
F.	<b>Name and Specifications</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount</b>
	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				12% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

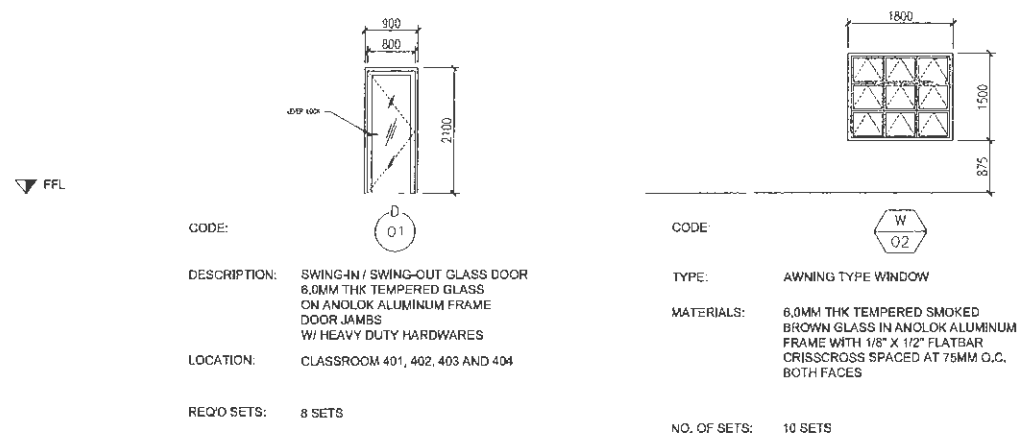
Prepared / Submitted by:

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Signature Over Printed Name  
Company

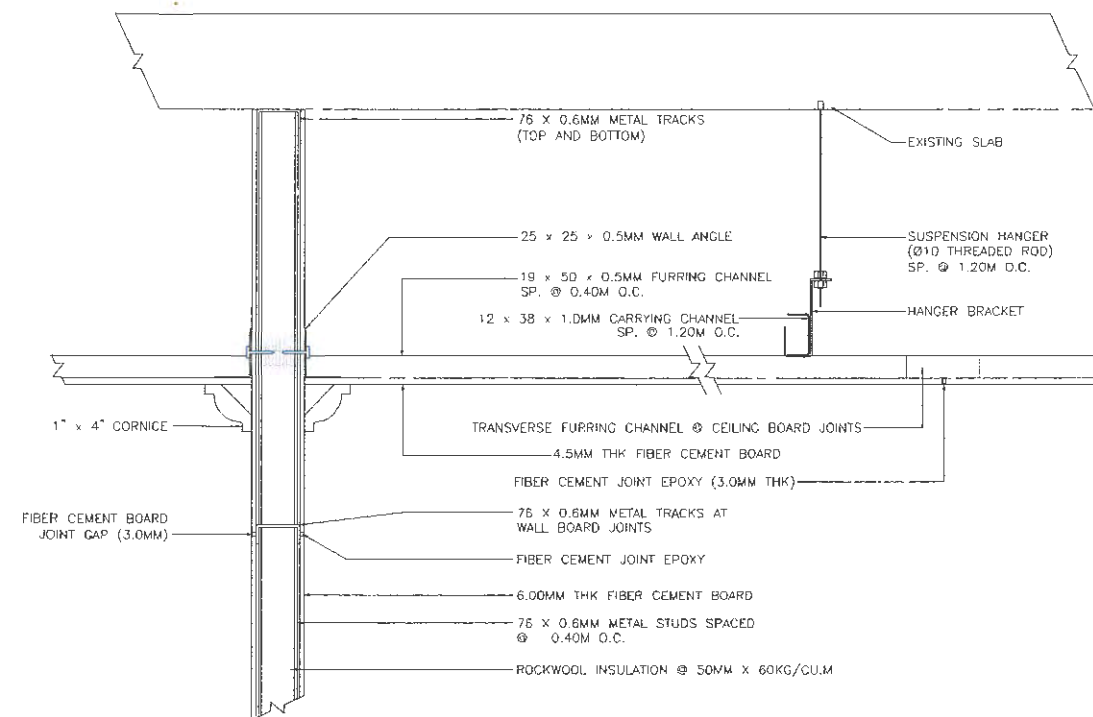


OLD ITL BUILDING (HIGH SCHOOL)  
3  
A-02 NTS  
**SECTION PLAN A - A**

KEY PLAN  
NTS



OLD ITL BUILDING (HIGH SCHOOL)  
4  
A-02 NTS  
**DOOR AND WINDOW SCHEDULE**



OLD ITL BUILDING (HIGH SCHOOL)  
5  
A-02 NTS  
**CEILING AND DRYWALL PARTITION DETAILS**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:  
INFRASTRUCTURE AND SMART CAMPUS  
DEVELOPMENT, OPERATIONALIZATION  
OF FACE-TO-FACE CLASSES AND  
UPGRADING/PROCUREMENT  
OF EQUIPMENT

PREPARED BY:  
ALFREDO S. ALARCON JR.  
CIVIL ENGINEER, FMSS  
PRC NUMBER 89405  
PTR NUMBER 9037097

SUBMITTED BY:  
JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
JENNY G. MALITAO  
OIC, VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:  
BERT J. TUGA, PH.D.  
PRESIDENT

DATE:  
MAY 12, 2022  
CAD BY:  
JBC

SHEET CONTENTS:  
SECTION PLAN  
DOOR & WINDOW SCHEDULE  
CEILING & DRYWALL  
PARTITION DETAILS

SHEET NO.:  
A-02



LP3																	
CTK NO.	LOAD DESCRIPTION	NO. OF C.O.	NO OF L.O	SWITCHES				VOLTS	VOLT AMP RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S1	S2	S3	S3W			AB Ø	BC Ø	CA Ø	3Ø	AT	P	AF	
1	CONVENIENCE OUTLET	11						230	1980	8.61				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
2	LIGHTING OUTLET		34					230	1700	7.39				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
3	CONVENIENCE OUTLET	11						230	1980			8.61		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
4	LIGHTING OUTLET		34					230	1700			7.39		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
5	CONVENIENCE OUTLET	12						230	2160			9.39		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
6	LIGHTING OUTLET		23					230	1150			5.0		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
7	LIGHTING OUTLET		6					230	300	1.30				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
8	SPARE							230	1500	6.52				20	2	50	
9	LIGHTING OUTLET		21					230	1050			4.56		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø PVC CONDUIT
10	SPARE							230	1500			6.52		20	2	50	
11	SPARE							230	1500			6.52		20	2	50	
12	SPARE							230	1500			6.52		20	2	50	
	TOTAL									23.82	7.43	27.08					
FULL LOAD CURRENT @ 80% DF = [1.732 × 27.43 ] × 0.8 = 38.0 AMPERES FEEDER SIZE 3-22mm <sup>2</sup> THHN + 8.00mm <sup>2</sup> TW GROUND WIRE @ 25 mm Ø IMC PROTECTION : 1-70AT, 3P, 240V, 60 Hz, 10 KAIC, MOLDED CASE MAIN CIRCUIT BREAKER																	
NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON MINATURE TYPE																	

SCHEDULE OF LOADS  
E-01 NTS

#### VOLTAGE DROP CALCULATION:

1) A 2.5 HP, 230V, 3 PHASE, 60HZ MOTOR IS CONSIDERED AS THE FARTHEST MOTOR LOAD, CONNECTED FROM THE POWER PANEL AT A DISTANCE OF 40 METERS, SUPPLIED WITH 3 - 5.5 mm<sup>2</sup> THHN COPPER CONDUCTORS IN PVC CONDUIT.

2) THE MAIN DISTRIBUTION PANEL WHICH DRAWS A TOTAL CURRENT OF 263.5 AMPERES FROM A 3 PHASE 230V LOW VOLTAGE SWITCHGEAR WHICH IS 3 METERS AWAY AND SUPPLIED BY TWO SETS OF 3 - 200mm<sup>2</sup> THHN COPPER CONDUCTORS IN 75 mm Ø PVC.

AT 2.5 HP MOTOR LOAD TERMINALS:

$$VD = \frac{I \times \sqrt{(R^2 + X^2)} \times L}{1000}$$

$$VD = \frac{14 \times \sqrt{3.9^2 + 0.164^2} \times 40}{1000}$$

$$VD = \frac{14 \times 3.9034 \times 40}{1000}$$

$$VD = 2.186 \text{ VOLTS}$$

$$\%VD = \frac{VD}{VS} \times 100\%$$

$$\%VD = \frac{2.186 \text{ V}}{230 \text{ V}} \times 100\%$$

$$\%VD = 0.95\%$$

AT MAIN DISTRIBUTION PANEL TERMINAL:

$$VD = \frac{I \times \sqrt{(R^2 + X^2)} \times L}{1000}$$

$$VD = \frac{376.26 \times \sqrt{(0.082^2 + 0.157^2)} \times 100}{1000}$$

$$VD = \frac{376.26 \times 0.1771 \times 100}{1000}$$

$$VD = 6.663 \text{ VOLTS}$$

$$\%VD = \frac{VD}{VS} \times 100\%$$

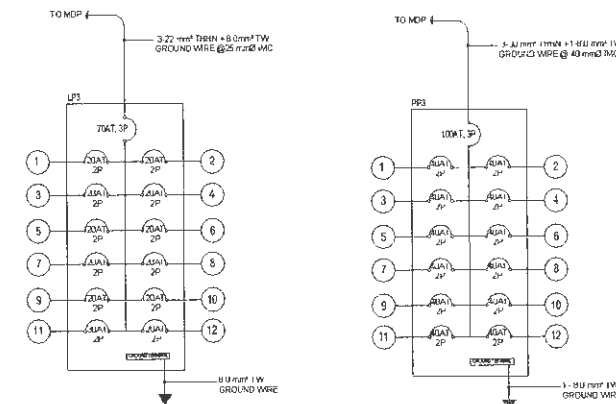
$$\%VD = \frac{6.663 \text{ V}}{230 \text{ V}} \times 100\%$$

$$\%VD = 2.90\%$$

PP3																	
CTK NO.	LOAD DESCRIPTION	NO. OF C.O.	NO OF L.O.	SWITCHES				VOLTS	VOLT AMP RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S1	S2	S3	S3W			AB Ø	BC Ø	CA Ø	3Ø	AT	P	AF	
1	2.5 HP AIR CONDITIONING UNIT	1						230	3220	14				40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
2	2.5 HP AIR CONDITIONING UNIT	1						230	3220	14				40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
3	2.5 HP AIR CONDITIONING UNIT	1						230	3220			14		40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
4	2.5 HP AIR CONDITIONING UNIT	1						230	3220			14		40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
5	2.5 HP AIR CONDITIONING UNIT	1						230	3220			14		40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
6	2.5 HP AIR CONDITIONING UNIT	1						230	3220			14		40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
7	2.5 HP AIR CONDITIONING UNIT	1						230	3220	14				40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
8	SPACE							230	3220					40	2	50	
9	2.5 HP AIR CONDITIONING UNIT	1						230	3220			14		40	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø PVC CONDUIT
10	SPACE							230	3220					40	2	50	
11	SPARE							230	3220			14		40	2	50	
12	SPACE							230	3220					40	2	50	
	TOTAL									42.0	42.0	42.0					
FULL LOAD CURRENT @ 100% DF = $[1.732 \times 42 + (0.25 \times 14)] \times 1.0 = 76.24$ AMPERES FEEDER SIZE : 3-30mm <sup>2</sup> THHN + 1-8.0mm <sup>2</sup> TW GROUND WIRE @ 40 mm Ø IMC PROTECTION : 1-100AT, 3P, 240V, 60 Hz, 20 KAIC, MOLDED CASE MAIN CIRCUIT BREAKER																	
NOTE ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON MINATURE TYPE																	

SCHEDULE OF LOADS  
E-01 NTS

#### VOLTAGE DROP CALCULATION E-01 NTS



RISER DIAGRAM  
E-01 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

INFRASTRUCTURE AND SMART CAMPUS  
DEVELOPMENT, OPERATIONALIZATION  
OF FACE-TO-FACE CLASSES AND  
UPGRADING/PROCUREMENT  
OF EQUIPMENT

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS

PRC NUMBER 74155  
PTR NUMBER MIA.0164037

SUBMITTED BY:

JOHN PANATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JENNY C. MALITAO  
OIC, VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. LUGA, PH.D.  
PRESIDENT

DATE:  
MAY 12, 2022

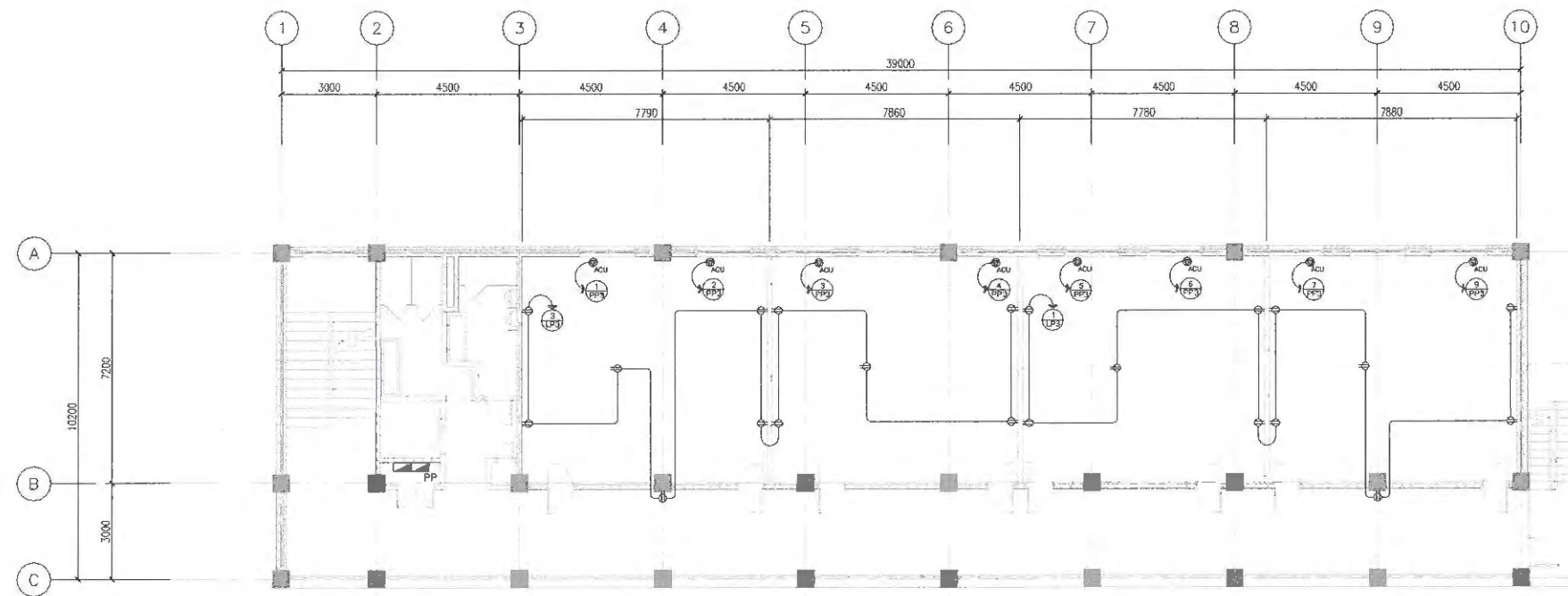
CAD BY:  
JBC

SHEET CONTENTS:

SCHEDULE OF LOADS  
VOLTAGE DROP  
CALCULATION  
RISER DIAGRAM

SHEET NO.:

E-01



LEGEND	
ELECTRICAL SYMBOL	
SYMBOL	DESCRIPTION
Sa	ONE GANG SWITCH
Sab	TWO GANG SWITCH
Sabc	THREE GANG SWITCH
S <sub>abc</sub>	THREE GANG SWITCH, THREE WAY SWITCH
⊕	DUPLEX CONVENIENCE OUTLET
⊕	DUPLEX CONVENIENCE OUTLET
⊕	AUTOMATIC CLOSET OUTLET
⊕	TWO GANG GROUND FAULT CIRCUIT INTERRUPTER (GROUNDING TYPE)
⊕	AIR CONDITIONING OUTLET
⊕	EMERGENCY LAMP
⊕	16 WATTS PINLIGHT FIXTURE
⊕	1-16W TUBULAR LED IN DUST/ WATER-PROOF LUMINAIRE
⊕	1-16W TUBULAR LED TUBE IN TROFFER FIXTURE
⊕	FLUORESCENT LAMP FIXTURE
⊕	PANEL BOARD
⊕	CIRCUIT HOMERUN
⊕	EXIT SIGNAGE
⊕	FIRE EXIT SIGNAGE

# 01 PROPOSED 3RD FLOOR POWER LAYOUT E-02 NTS



Republic of the Philippines  
**PHILIPPINE NORMAL UNIVERSITY**  
Taft Avenue, Manila

PROJECT TITLE:  
**INFRASTRUCTURE AND SMART CAMPUS  
DEVELOPMENT, OPERATIONALIZATION  
OF FACE-TO-FACE CLASSES AND  
UPGRADING/PROCUREMENT  
OF EQUIPMENT**

PREPARED BY:  
**MARK ANTHONY Q. AMUL**  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74155  
PTR NUMBER MLA 0164037

SUBMITTED BY:  
**JOHN R. NATIVIDAD**  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
**JENNY C. MALITAO**  
VICE-PRESIDENT FOR FINANCE AND  
ADMINISTRATION

APPROVED BY:  
**BERT J. TUGA, PH.D.**  
PRESIDENT

DATE:  
MAY 12, 2022  
CAD BY:  
JBC

SHEET CONTENTS:  
**POWER LAYOUT**

SHEET NO.:  
**E-02**

# GENERAL NOTES

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.

2. UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.

3. ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.

4. ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.

5. PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.

6. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.

7. ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.

8. MOUNTING HEIGHTS:

LIGHTING CONTROL SWITCHES	1.40 M . ABOVE FFL. & 150 MM FROM JAMBS
CONVENIENCE OUTLET	0.30 M ABOVE FLOOR FINISH
COUNTER HEIGHT OUTLET	0.30 M ABOVE COUNTER FINISH
PUSH BUTTON	1.40 M ABOVE FLOOR FINISH
BELL AND BUZZER	2.20 M ABOVE FLOOR FINISH
AIRCORN OUTLET	VERIFY FROM ENGINEER
PANEL BOARD	1.40 M ABOVE FLOOR FINISH

9. MATERIALS SPECIFICATIONS:

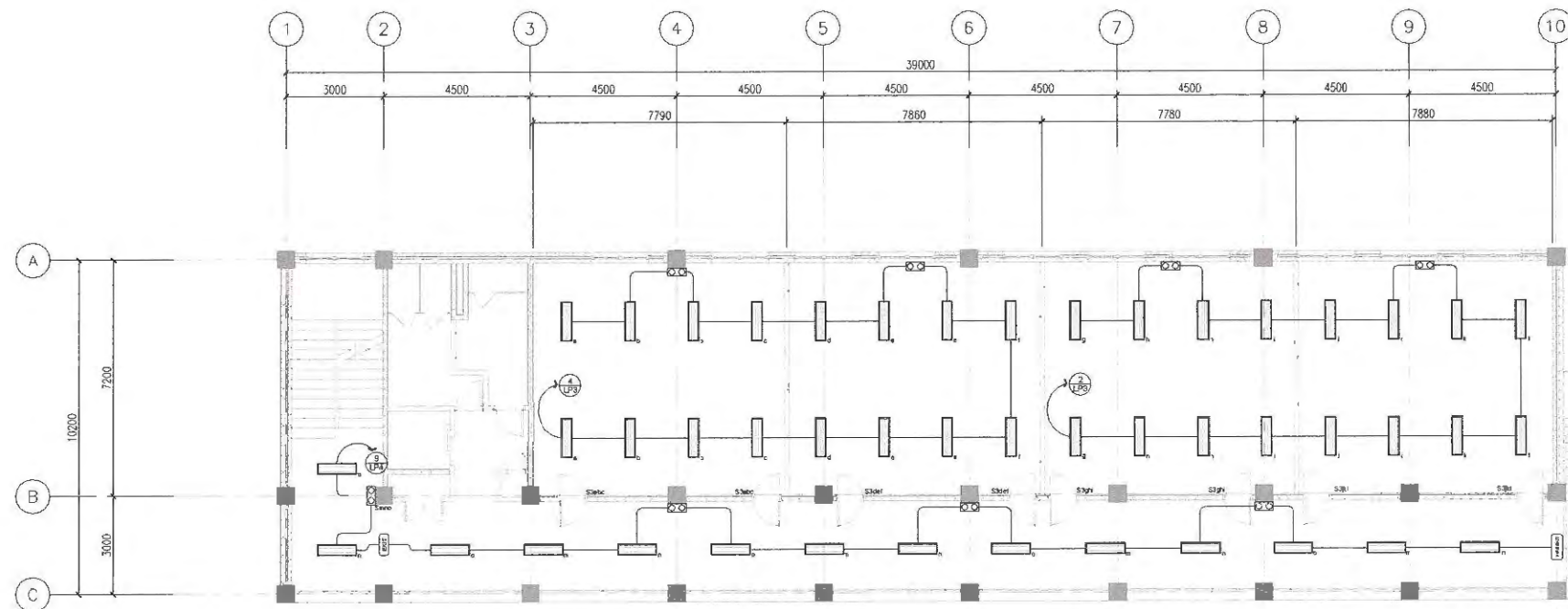
WIRING DEVICES:	PANASONIC, TOSHIBA BRAND OR APPROVED EQUAL
WIRES AND CABLES	PHELPS DODGE, PHILPLEX BRAND OR APPROVED EQUAL
PVC PIPES	ATLANTA, MOLDEX OR APPROVED EQUAL
CIRCUIT BREAKERS	G.E. OR SQUARE D

10. ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.

11. ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.

12. THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

13. POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.



02

## PROPOSED 3RD FLOOR LIGHTING LAYOUT

E-03 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

INFRASTRUCTURE AND SMART CAMPUS  
DEVELOPMENT, OPERATIONALIZATION  
OF FACE-TO-FACE CLASSES AND  
UPGRADING/PROCUREMENT  
OF EQUIPMENT

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS

PRC NUMBER 74155  
PTR NUMBER MLA 0164037

SUBMITTED BY:

JOHN Z. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JENNY C. MALITAO  
VICE-PRESIDENT FOR FINANCE AND  
ADMINISTRATION

APPROVED BY:

BERT U. TUGA, PH.D.  
PRESIDENT

DATE:

MAY 12, 2022

CAD BY:

JBC

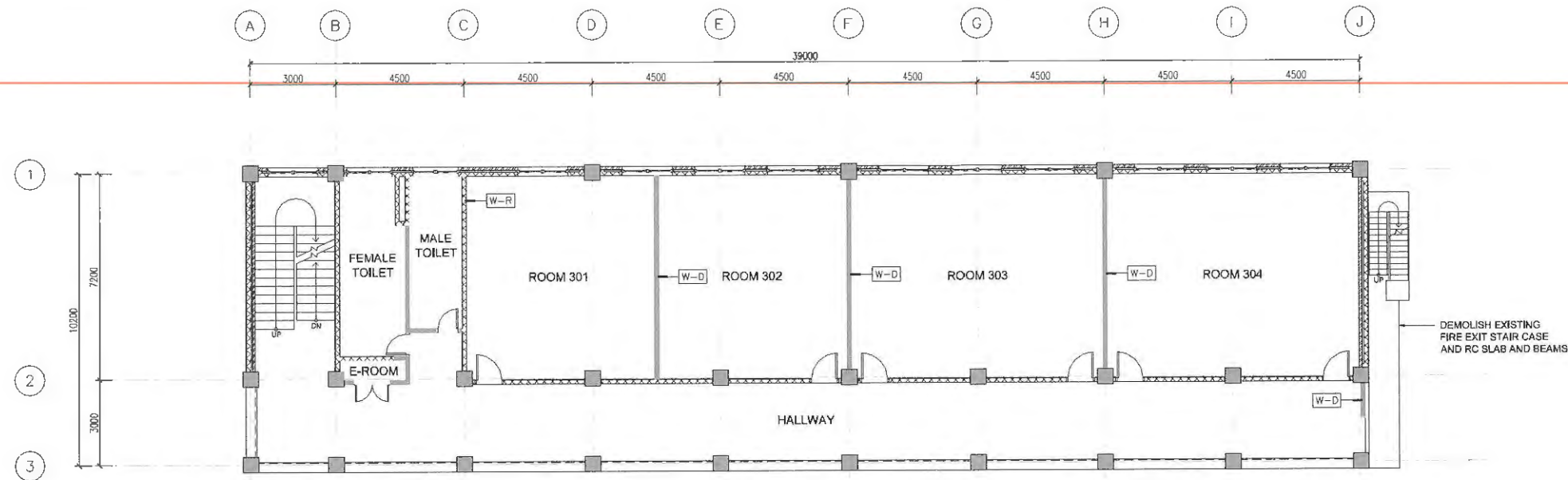
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LIGHTING LAYOUT

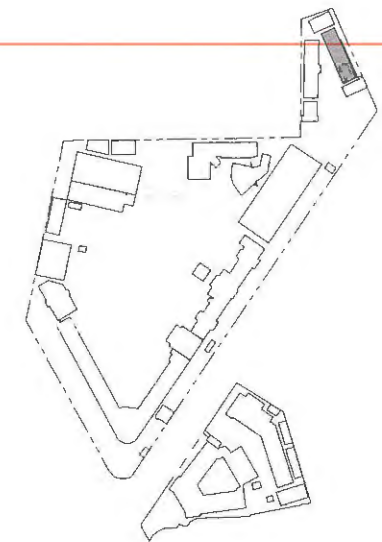
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E-03

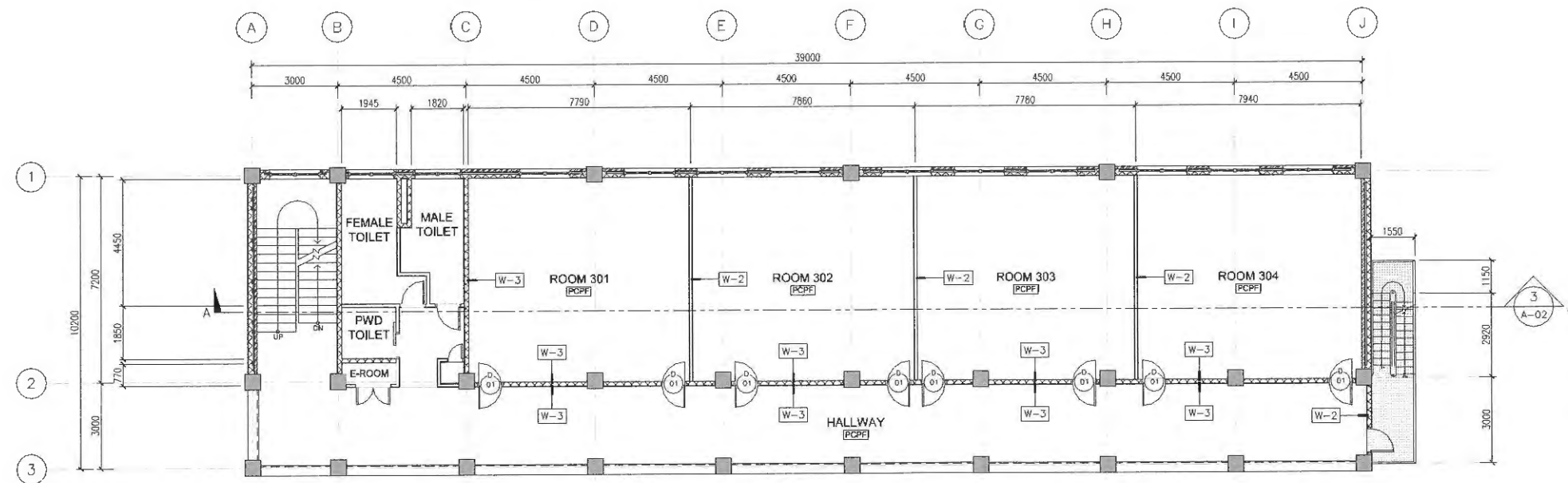




OLD ITL BUILDING (HIGH SCHOOL)  
**EXISTING THIRD FLOOR PLAN**  
 1  
 A-01 NTS



**KEY PLAN**  
 NTS



OLD ITL BUILDING (HIGH SCHOOL)  
**PROPOSED THIRD FLOOR PLAN**  
 2  
 A-01 NTS

LEGEND	
WALL FINISH	
SYMBOL	DESCRIPTION
W-R	RETAIN
W-D	DEMOLISH

LEGEND	
WALL FINISH	
SYMBOL	DESCRIPTION
W-1	100mm THK CHB WALL PAINT FINISH
W-2	6mm THK FICEM BOARD WALL PAINT FINISH
W-3	EXISTING CHB WALL PAINT FINISH
FLOOR FINISH	
SYMBOL	DESCRIPTION
PCPF	PLAIN CEMENT W/ PAINT FINISH



Republic of the Philippines  
 PHILIPPINE NORMAL UNIVERSITY  
 Taft Avenue, Manila

PROJECT TITLE:

INFRASTRUCTURE AND SMART CAMPUS  
 DEVELOPMENT, OPERATIONALIZATION  
 OF FACE-TO-FACE CLASSES AND  
 UPGRADING/PROCUREMENT  
 OF EQUIPMENT

PREPARED BY:

ALFREDO G. ALARCON JR.  
 CIVIL ENGINEER / FMSS  
 PRC NUMBER 59405  
 PTR NUMBER 9037097

SUBMITTED BY:

JOHN P. NATIVIDAD  
 DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JENNY C. MALITAO  
 OIC, VICE PRESIDENT FOR FINANCE  
 AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
 PRESIDENT

DATE:

MAY 12, 2022

CAD BY:

JBC

SHEET CONTENTS:

FLOOR PLAN

SHEET NO.:

**A-01**



<b>PURCHASE REQUEST</b> <b>PHILIPPINE NORMAL UNIVERSITY</b> <b>AGENCY</b>
---------------------------------------------------------------------------------

Section:

SAI No.

Date:

2 3 0 5 1 0 7 2

[illegible]

**Certification of Availability of Funds:**

Certification of Availability of Funds.  
 JASTINE BREATHE A. PACURIB  
 Accountant III

Included in the Approved PPMP/APP.  
Checked by [Signature] Date 11/1/11

2023  
5/10/23

**Total Estimated Cost**

4,999,153.53

Purpose: Repair/Improvement of the University Facilities
----------------------------------------------------------

Requested by:

Approved by:

Signature  
Printed Name

**John P. Natividad**  
Director

DR. BERT J. TUGA  
President

Date \_\_\_\_\_

08/05/2023

Project: REPAIR AND IMPROVEMENT OF ROOFING AND LIGHTING OF UNIVERSITY GYMNASIUM


Subject: BILL OF QUANTITIES

Date: May 2, 2023

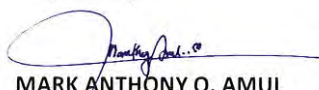
Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
1.00	Mobilization and demobilization	1.00	lot	35,000.00	35,000.00
2.00	Construction Health and Safety	1.00	lot	120,000.00	120,000.00
3.00	Temporary facilities	1.00	lot	30,000.00	30,000.00
	<b>Subtotal (General Requirements)</b>				<b>185,000.00</b>
<b>II</b>	<b>CIVIL/ARCHITECTURAL WORKS</b>				
<b>1.00</b>	<b>Site Preparation Works</b>				
1.01	Scaffolding works: rental erection and disassembly	1.00	lot	178,500.00	178,500.00
1.02	Removal of ceiling and dilapidated insulations	1.00	lot	94,500.00	94,500.00
1.03	Removal of rusts and loose paint on roof framing	1.00	lot	42,820.00	42,820.00
1.04	Disposal of debris and site cleanup	1.00	lot	105,000.00	105,000.00
<b>2.00</b>	<b>Roofing Works (on top of existing roofing)</b>				
2.01	GI hat-type purlins ( <i>vertical</i> ), 32 x 0.8mm thk x 4.88m L (submit technical data sheet)	280.00	lgts	440.00	123,200.00
2.02	GI hat-type purlins ( <i>horizontal</i> ), 38 x 0.8mm thk x 4.88m	275.00	lgts	520.00	143,000.00
2.03	Pre-painted rib-type roofing, 0.6mm thk (submit technical data sheet)	1,200.00	sq.m.	620.00	744,000.00
2.04	Pre-painted ridge roll, 0.457 x 2.44m, 0.6mm thk	20.00	pcs	562.00	11,240.00
2.05	Pre-painted end flashing, 0.61 x 2.44m, 0.6mm thk	4.00	pcs	1,405.00	5,620.00
2.06	Pre-painted wall flashing, 0.457 x 2.44m, 0.6mm thk	38.00	pcs	445.00	16,910.00
2.07	Pre-painted wall capping, 0.61 x 2.44m, 0.6mm thk	32.00	pcs	594.00	19,008.00
2.08	Miscellaneous and consumables	1.00	lot	52,150.00	52,150.00
2.09	Labor and equipment	1.00	lot	320,890.00	320,890.00
<b>3.00</b>	<b>Insulation Works</b>				
3.01	PE foam insulation with double-sided aluminum foil, 10mm x 1.00m x 50m (submit technical data sheet)	24.00	rolls	4,000.00	96,000.00
3.02	Self-adhesive aluminum foil tape, 50mm x 30m	56.00	rolls	140.00	7,840.00
3.03	Welded wire mesh, 100x100x2.6mm @ 1.80 x 6.0m per roll	100.00	rolls	645.00	64,500.00
3.04	Steel flat bar, 50 x 3.0mm x 6.0m	230.00	lgts	450.00	103,500.00
3.05	Miscellaneous and consumables	1.00	lot	14,550.00	14,550.00
3.06	Labor and equipment	1.00	lot	87,430.00	87,430.00
<b>4.00</b>	<b>Painting/Repainting Works</b>				
4.01	De-rusting and application of rust converter and paint primer on all existing steel structures (Approx. 1400 sq.m.)	1.00	lot	202,500.00	202,500.00
4.02	Acrylic epoxy paint or quick drying enamel topcoat on exposed steel (Approx. 550 sq.m.) (submit technical data sheet)	1.00	lot	82,500.00	82,500.00
4.03	Silver finish aluminum paint on welded wire mesh and flat bar supports	350.00	sq.m.	240.00	84,000.00
4.04	Labor and equipment	1.00	lot	218,350.00	218,350.00
	<b>Subtotal (Civil/Architectural Works)</b>				<b>2,599,658.00</b>
<b>III</b>	<b>ELECTRICAL WORKS</b>				
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	20 mm Φ PVC pipe (submit technical data sheet)	75.00	pcs	150.00	11,250.00
1.02	4" x 4" Octagonal Junction box	21.00	pcs	79.75	1,674.75
1.03	Square box	8.00	pcs	120.00	960.00
1.04	20 mm Φ PVC male adaptor w/ locknut	70.00	pcs	18.50	1,295.00
1.05	20 mm Φ Two Hole EMT Clamp	250.00	pcs	19.75	4,937.50
1.06	Labor	1.00	lot	8,046.90	8,046.90
<b>2.0</b>	<b>Wires and Cable</b>				

Date: May 2, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
2.01	3.5 sqmm THHN Stranded Wire 150m/box	2.00	box	5,220.00	10,440.00
2.02	5.5sqmm THHN Stranded Wire 150m/box	5.00	box	8,770.00	43,850.00
2.03	38.0 sqmm THHN Stranded Wire	6.00	lm	261.75	1,570.50
2.04	Labor	1.00	lot	22,344.20	22,344.20
<b>3.0</b>	<b>Panels and Boxes (submit technical data sheet)</b>				
3.01	Lighting Panel 1 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	58,000.00	58,000.00
	Main: 100AT,2P, 240 Volts, 60Hz, 15 KAIC				
	Branches:				
	14-20AT 2P, 240 Volts, 10 KAIC,60 Hz,CB				
4.04	Labor	1.00	lot	17,400.00	17,400.00
<b>4.0</b>	<b>Lighting Fixtures and Wiring Devices (submit technical data sheet)</b>				
4.01	LED Industrial lighting High Bay,	21.00	set	17,450.00	366,450.00
	Housing : Die-Cast aluminum, IP65				
	Lens : High Transmittance PC Lens				
	Output Range : 15400-25300 lm, 90/110 Degree				
	CCT: 6500K @ CRI 80				
	Rated Life : 30,000 hrs				
	Operating Temperature: -20 to + 40°C				
	Warranty : 2 years				
	Certification: IEC 60598				
	Input/Power : 220-240VAC,50-60 Hz / 180 Watts				
4.02	1-18 Tubular LED in Surface Mounted Troffer Type Fixture	10.00	set	2,180.00	21,800.00
4.03	Two-Gang Single Switch Wide Series	5.00	set	285.00	1,425.00
4.04	Three-Gang Single Switch Wide Series	1.00	set	342.00	342.00
4.05	Consumables	1.00	lot	4,000.00	4,000.00
4.06	Labor	1.00	lot	118,205.10	118,205.10
<b>5.0</b>	<b>Testing and Commissioning</b>				
5.01	Testing and Commissioning	1.00	lot	20,000.00	20,000.00
	<b>Subtotal (Electrical Works)</b>				<b>713,990.95</b>
	<b>TOTAL DIRECT COST</b>				<b>3,607,823.95</b>
	<b>INDIRECT COST</b>				
	OCM				513,423.59
	Contractor's profit				342,282.40
	VAT				535,623.59
	<b>TOTAL PROJECT COST</b>				<b>4,999,153.53</b>

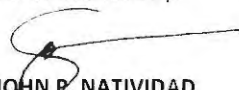
Civil/Architectural Works  
Prepared by:


**ALFREDO G. ALARCON, JR.**  
Civil Engineer, FMSS

Electrical Works  
Prepared by:


**MARK ANTHONY Q. AMUL**  
Registered Electrical Engineer, FMSS

Recommended by:



**JOHN P. NATIVIDAD**  
Director, FMSS

# **DETAILED UNIT PRICE ANALYSIS (DUPA)**

**NAME OF PROJECT:**

**LOCATION:**

Item No. / Description

Unit of Measurement

Output per hour

	<b>Designation</b>	<b>No. of Person</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount</b>
A.	Labor				
	Sub-Total for A				
	<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Rental Rate</b>	<b>Amount</b>
B.	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
	<b>Name and Specifications</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount</b>
F.	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				5% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

Prepared / Submitted by:

\_\_\_\_\_  
Signature Over Printed Name  
Company

Name of Project:       **REPAIR AND IMPROVEMENT OF ROOFING AND LIGHTING OF UNIVERSITY GYMNASIUM**

Subject:               **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I.     GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II.    CIVIL/ARCHITECTURAL WORKS**

**A.   Site Preparation Works**

1. Scaffolding works: rental. Erection, and disassembly.
2. Removal of ceiling and loose and dilapidated insulations.
3. Demolition of rusts and loose paints on roof framing.
4. Disposal of debris and site cleanup.

**B.   Roofing Works**

1. Supply and installation of hat-type purlins to be installed on top of existing roofing.

2. Supply and installation of pre-painted rib-type roofing, complete with bent accessories.

#### **C. Insulation Works**

1. Supply and installation of polyethylene foam insulations in aluminum foils both sides, complete with self-adhesive aluminum foil tapes for jointing.
2. Supply and installation of welded wire mesh support, complete with steel flat bars.

#### **D. Painting Works**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. De-rusting and application of rust converters and primers (epoxy primer or red oxide to match existing) on all existing steel structures.
3. Painting of exposed steel finishes using acrylic epoxy paint or quick-drying enamel, whichever is necessary.
4. Painting of welded wire mesh and flat bars using silver finish aluminum paint to match the color of aluminum foil.

### **III. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits.
4. Remove the existing lighting fixtures and switches.
5. Disconnect and remove any electrical equipment that is no longer needed.
6. Install new electrical wiring and conduits as needed to support the updated electrical system.
7. Upgrade the lighting system with energy-efficient LED fixtures that provide adequate illumination while reducing energy consumption.
8. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
9. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
10. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result



- b. No-Load, and Full Load Test Result
- c. Continuity Test Result
- d. Live test Result

11. As-built electrical drawings showing the updated electrical system.

#### **SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

#### **Additional Documents to be Submitted on Bid Opening:**

- The bidder/s must conduct an onsite inspection of the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category C and D with specialization/classification of Electrical Work
- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of the latest PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- Similar contracts shall refer to contracts with the same major work categories. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to

this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract which will form part of the Technical Specifications as evidence.

- Subcontracting is allowed subject to compliance with the RA9184 requirements.

*Structural and Architectural Works*

Prepared by:


  
ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

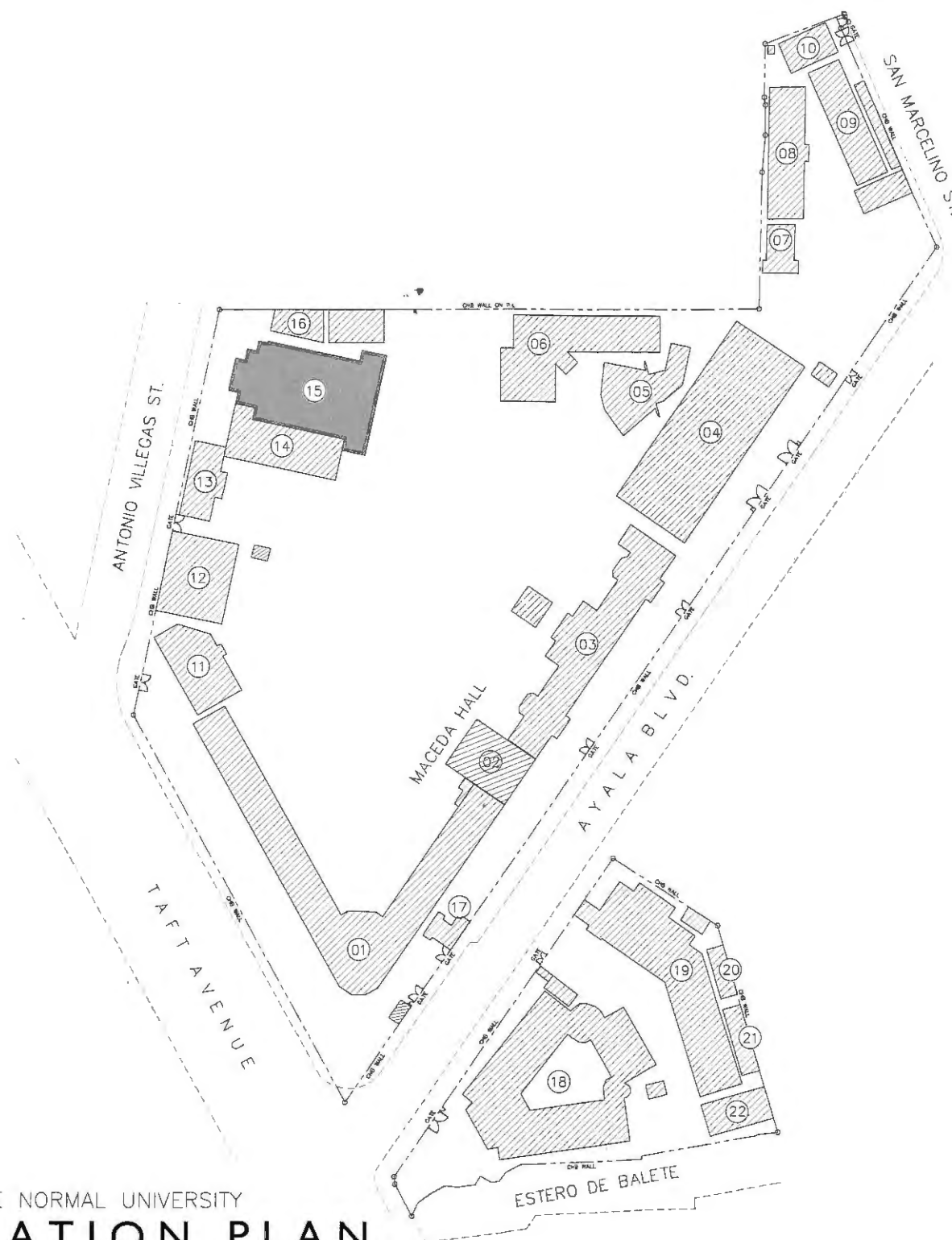
*Electrical Works*

Prepared by:

  
MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Recommended by:

  
PROF. JOHN P. NATIVIDAD  
Director, FMSS



PHILIPPINE NORMAL UNIVERSITY	
BUILDINGS:	
SYMBOL	DESCRIPTION
01	GERONIMA T. PECSON HALL
02	MACEDA HALL
03	FACULTY CENTER
04	EDILBERTO P. DAGOT HALL
05	CHAPEL
06	BONIFACIO P. SIBAYAN HALL
07	MEDICAL AND DENTAL CLINIC
08	OLD ITL (ELEMENTARY )
09	OLD ITL (HIGH SCHOOL )
10	MATERIAL RECOVERY FACILITY
11	PEDRO T. ORATA HALL
12	FINANCE BUILDING
13	GUSALI NG WIKA BUILDING
14	CULTURE AND SPORTS BUILDING
15	GYMNASIUM
16	IPEHRDS FACULTY BUILDING
17	SECURITY SERVICES AND SAFETY MANAGEMENT UNIT
18	NORMAL HALL
19	HRD BUILDING
20	ANNEX CLASSROOM - A
21	ANNEX CLASSROOM - B
22	HOSTEL

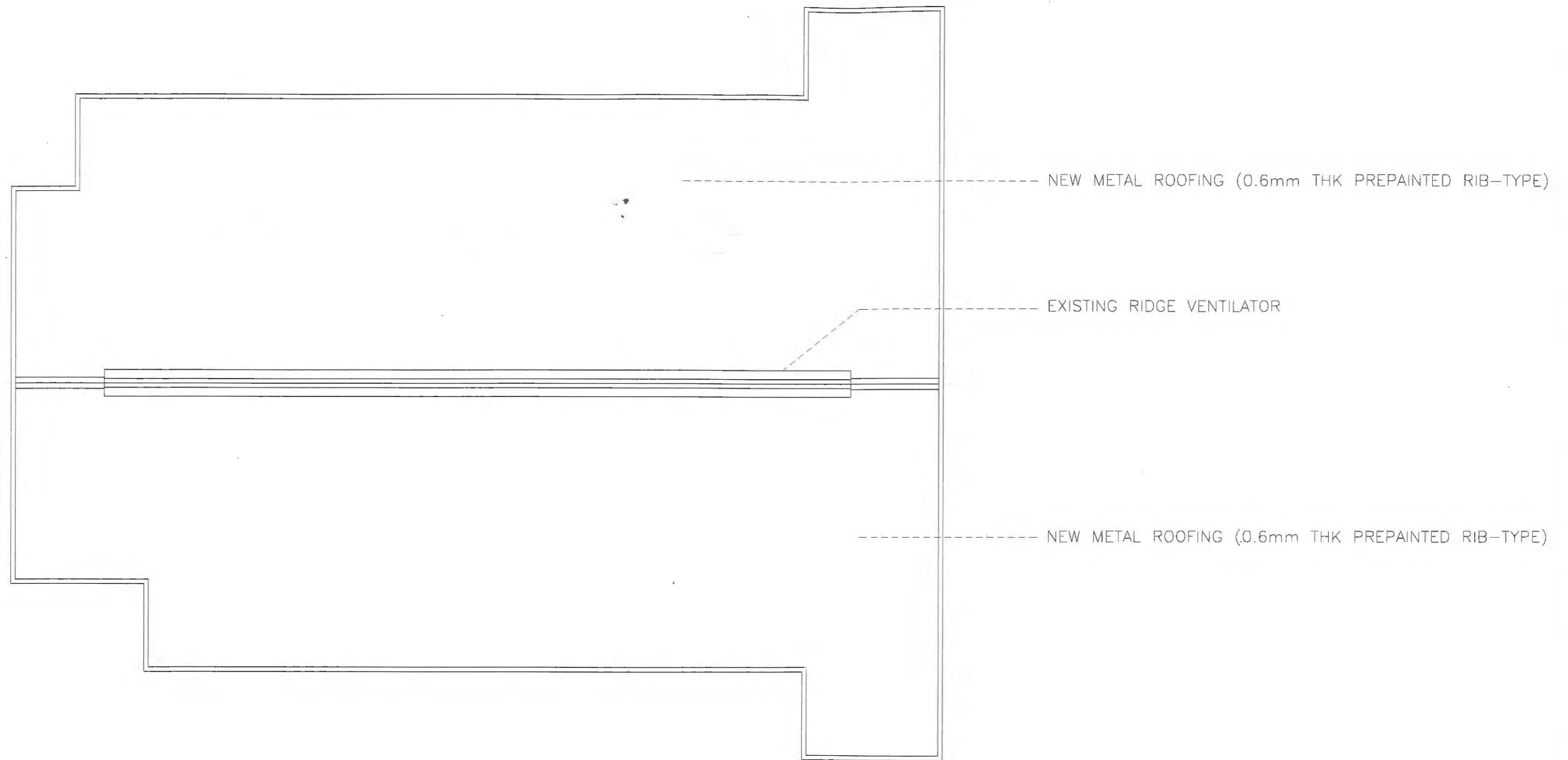
LOCATION PLAN	
LEGEND:	
SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	BOUNDARY LINE
▨	BUILDINGS

PHILIPPINE NORMAL UNIVERSITY  
1  
A-01 NTS  
**LOCATION PLAN**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:	PREPARED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE:	SHEET CONTENTS:	SHEET NO.:
REPAIR AND IMPROVEMENT OF GYMNASIUM ROOFING	ALFREDO Q. ALARCON JR. CIVIL ENGINEER, FMSS	JOHN P. NATIVIDAD DIRECTOR, FMSS	JOSE M. OCAMPO JR., PH.D. VICE-PRESIDENT FOR FINANCE AND ADMINISTRATION	BERNARD J. TUGA, PH.D. PRESIDENT	MAY 8, 2023	LOCATION PLAN	A-01
	PRC NUMBER 59405 PTR NUMBER 0846420				CAD BY: JBC		



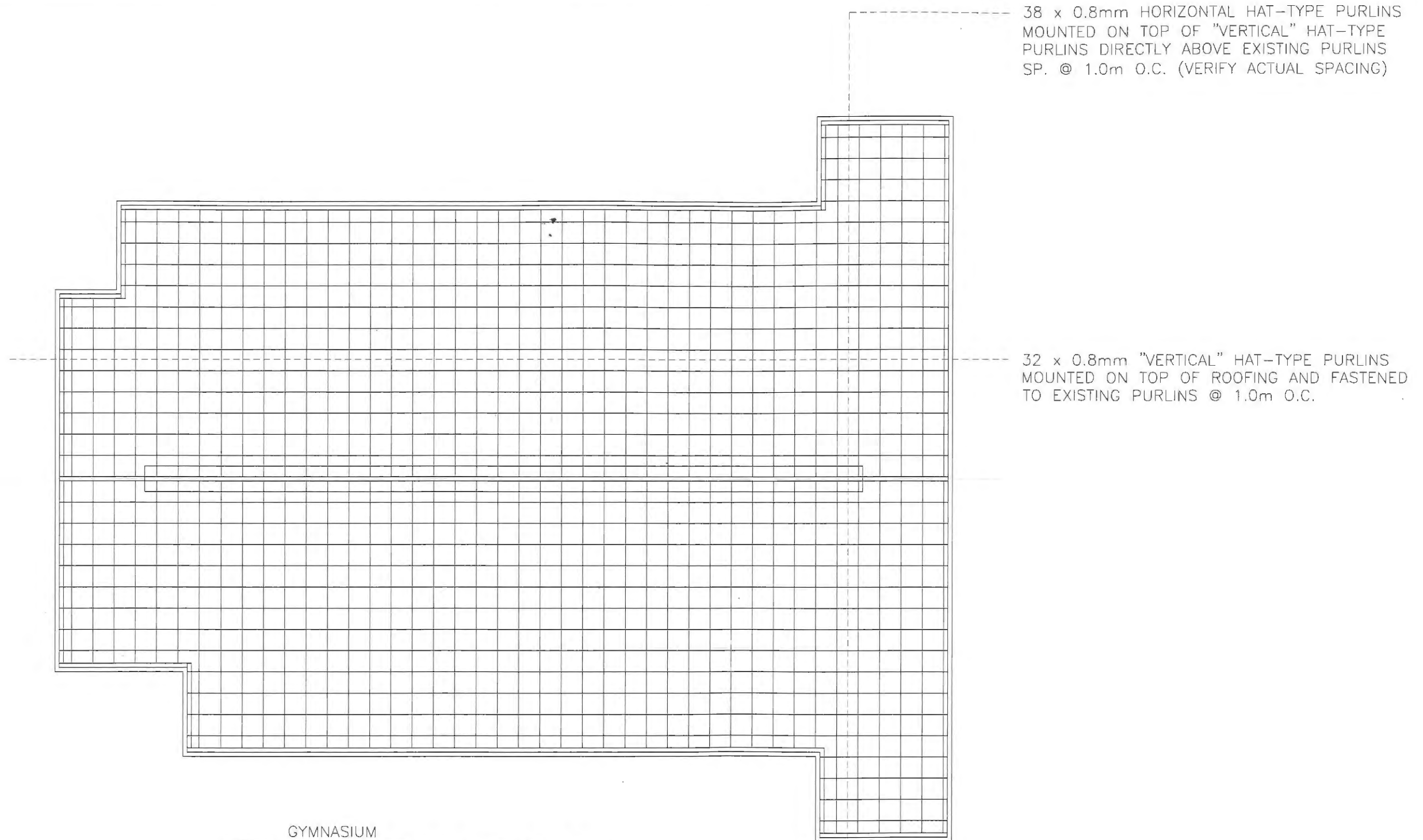
GYMNASIUM  
 2  
 A-02 NTS  
**ROOFING PLAN**



Republic of the Philippines  
 PHILIPPINE NORMAL UNIVERSITY  
 Taft Avenue, Manila

PROJECT TITLE:	PREPARED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE:	SHEET CONTENTS:	SHEET NO.:
REPAIR AND IMPROVEMENT OF GYMNASIUM ROOFING	ALFREDO G. ALARCON JR. CIVIL ENGINEER, FMSS	JOHN P. NATIVIDAD DIRECTOR, FMSS	JOSE M. OCAMPO JR., PH.D. VICE-PRESIDENT FOR FINANCE AND ADMINISTRATION	BERT J. LUJA, PH.D. PRESIDENT	MAY 8, 2023	ROOFING PLAN	A-02
	PRC NUMBER 59405 PTR NUMBER 0846420				CAD BY: JBC		


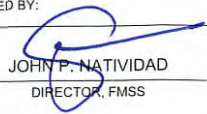
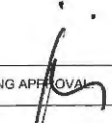
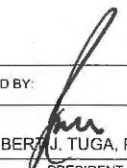


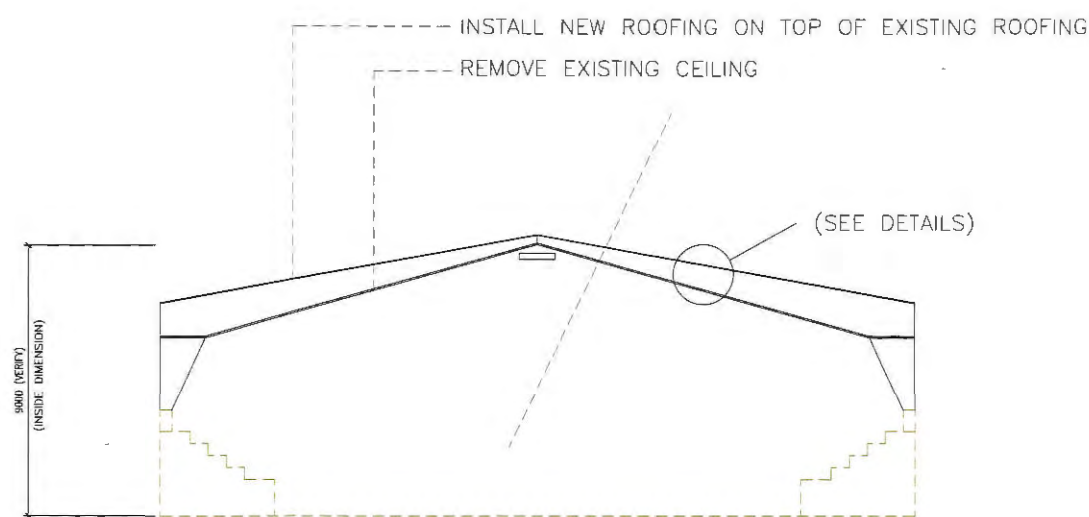


GYMNASIUM  
3  
A-03 NTS  
**ROOF FRAMING PLAN**

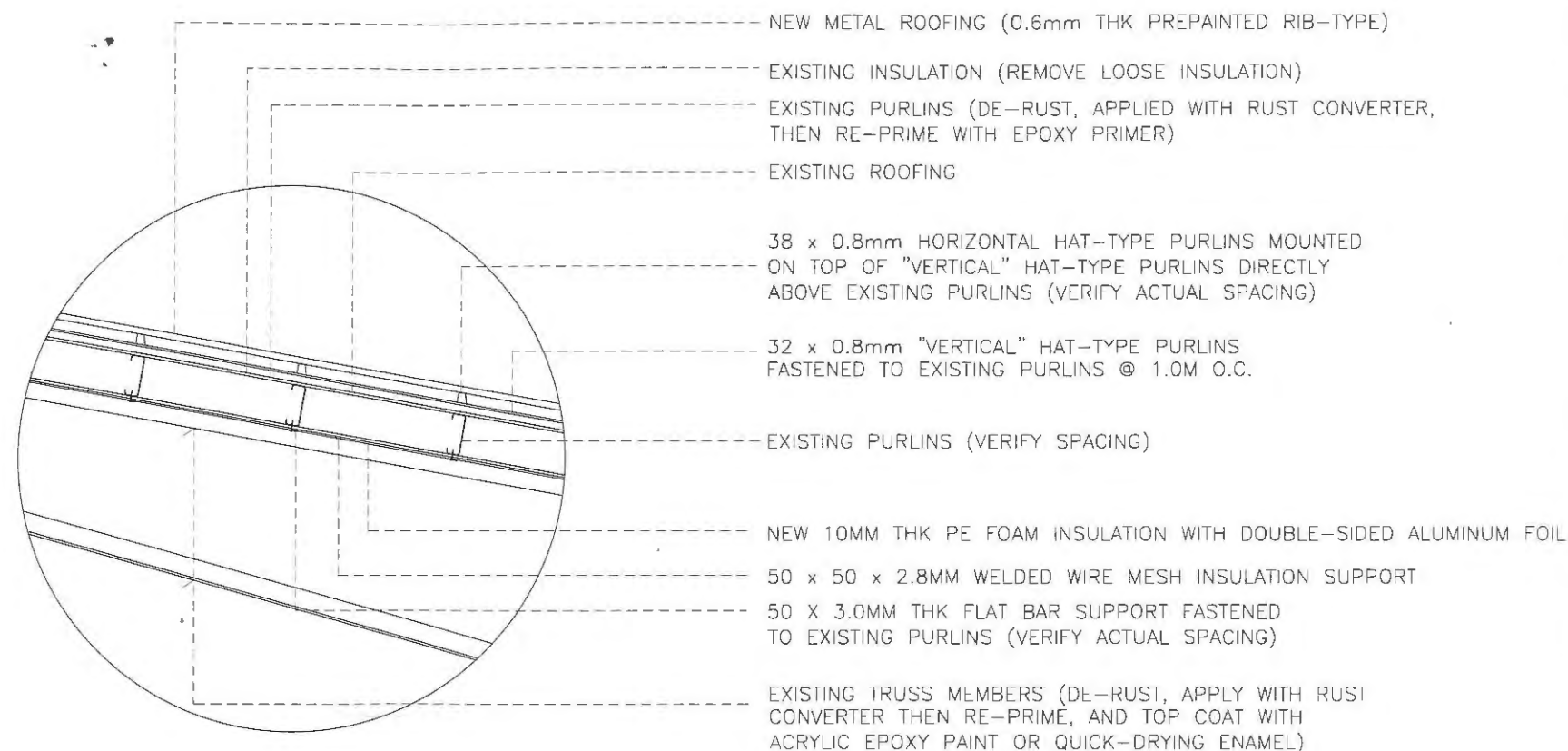


Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE: <b>REPAIR AND IMPROVEMENT OF GYMNASIUM ROOFING</b>	PREPARED BY:  <b>ALFREDO Q. ALARCON JR.</b> CIVIL ENGINEER, FMSS PRC NUMBER 59405 PTR NUMBER 0846420	SUBMITTED BY:  <b>JOHN P. NATIVIDAD</b> DIRECTOR, FMSS	RECOMMENDING APPROVAL:  <b>JOSE M. OCAMPO JR., PH.D.</b> VICE-PRESIDENT FOR FINANCE AND ADMINISTRATION	APPROVED BY:  <b>BER J. TUGA, PH.D.</b> PRESIDENT	DATE: MAY 8, 2023	SHEET CONTENTS: <b>ROOF FRAMING PLAN</b>	SHEET NO.: <b>A-03</b>
					CAD BY: JBC		



GYMNASIUM  
4  
A-04 NTS  
**SECTION / ELEVATION**



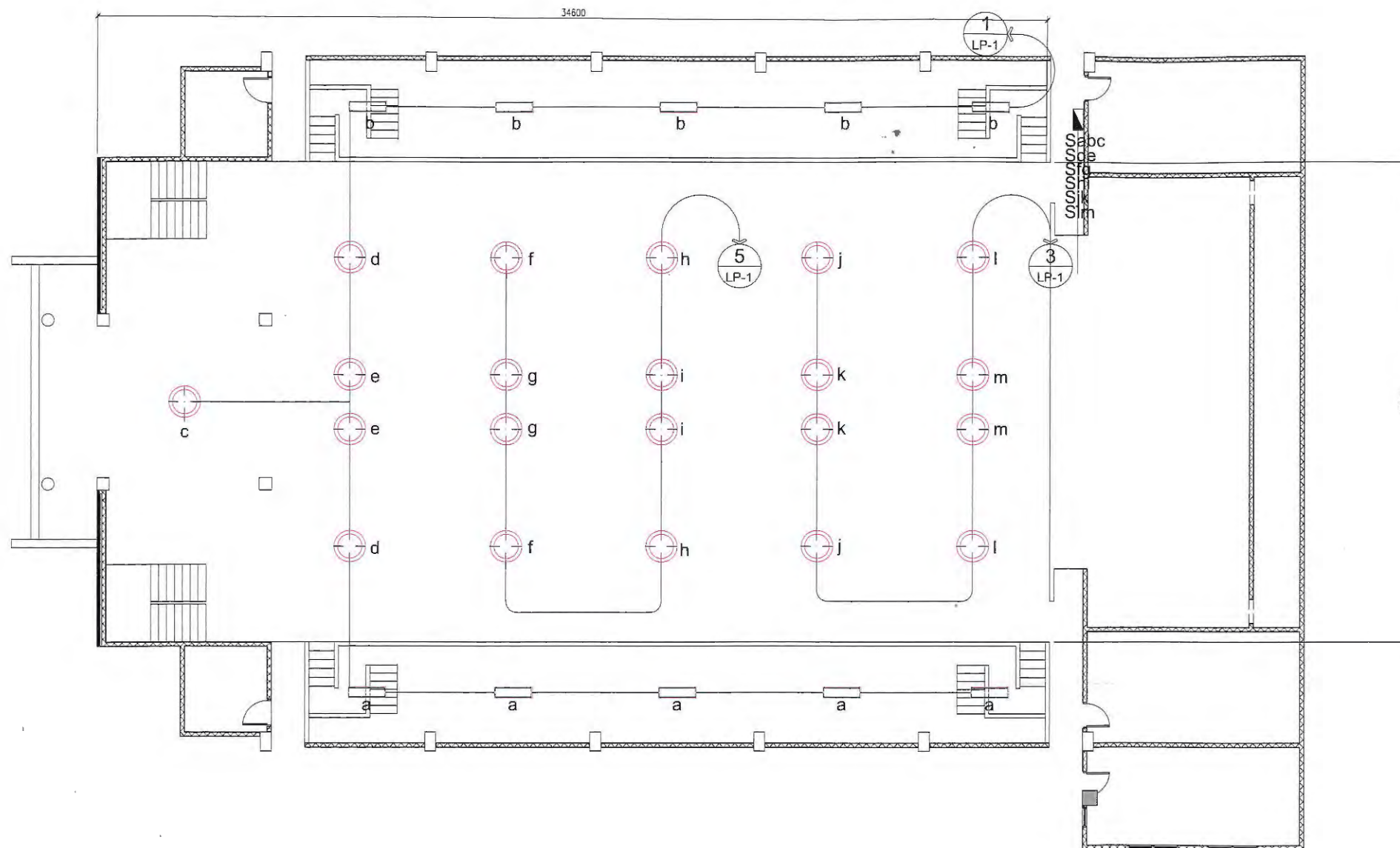
GYMNASIUM  
5  
A-04 NTS  
**INSTALLATION DETAILS**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:	PREPARED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE:	SHEET CONTENTS:	SHEET NO.:
REPAIR AND IMPROVEMENT OF GYMNASIUM ROOFING	ALFREDO G. ALARCON JR. CIVIL ENGINEER, FMSS	JOHN P. NATIVIDAD DIRECTOR, FMSS	JOSE M. OCAMPO JR., PH.D. VICE-PRESIDENT FOR FINANCE AND ADMINISTRATION	BERNARD J. TUGA, PH.D. PRESIDENT	MAY 8, 2023	SECTION / ELEVATION INSTALLATION DETAILS	A-04
	PRC NUMBER 59405 PTR NUMBER 0846420				CAD BY: JBC		





# GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THHN 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECT TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:
 

LIGHTING CONTROL SWITCHES	1.40 M. ABOVE FFL & 150 MM FROM JAMBS
PANEL BOARD	1.40 M ABOVE FLOOR FINISH
- MATERIALS SPECIFICATIONS:
 

WIRING DEVICES:	PANASONIC, TOSHIBA BRAND OR APPROVED EQUAL
WIRES AND CABLES	PHELPS DODGE, PHILPLEX BRAND OR APPROVED EQUAL
CIRCUIT BREAKERS	G.E., SCHNEIDER OR APPROVED EQUAL
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.

## LEGEND:

- |      |                                                             |
|------|-------------------------------------------------------------|
| Sab  | TWO-GANG SWITCH                                             |
| Sabc | THREE-GANG SWITCH                                           |
|      | 1-18W LED TUBE IN SURFACE MOUNTED TROFFER TYPE FIXTURE      |
|      | HIGHBAY LED LIGHTS 200 WATTS, DL                            |
|      | LP-1 1-18W LED TUBE IN SURFACE MOUNTED TROFFER TYPE FIXTURE |

## GYMNASIUM 6 LIGHTING LAYOUT E-01 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND IMPROVEMENT OF  
GYMNASIUM ROOFING

PREPARED BY:

MARY ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN V. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERNARD L. TUGA, PH.D.  
PRESIDENT

DATE:  
MAY 8, 2023

CAD BY:  
JBC

SHEET CONTENTS:

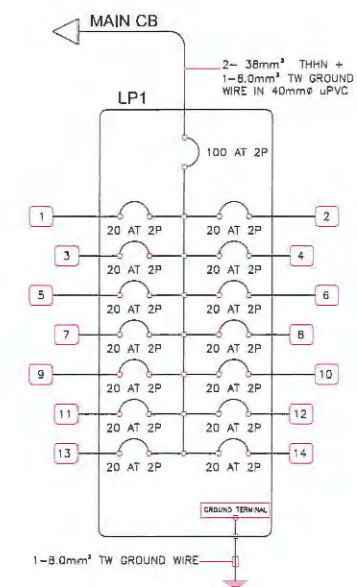
LIGHTING LAYOUT  
GENERAL NOTES

SHEET NO.:

E-01

LP1

CTK. NO.	LOAD DESCRIPTION	NO. OF C.O.	NO. OF L.O.	SWITCHES			VOLTS	VOLT AMP. RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S2	S3	S3W			AB $\phi$	BC $\phi$	CA $\phi$	3 $\phi$	AT	P	AF	
1	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
2	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
3	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
4	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
5	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
6	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
7	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
8	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
9	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
10	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
11	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
12	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
13	LIGHTING OUTLET						230	1000	4.35				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
14	CONVENIENCE OUTLET						230	1500	6.52				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm $\phi$ uPVC CONDUIT
TOTAL							17500 76.09									
FULL LOAD CURRENT @ 100% DF = 76.09 AMPERES FEEDER SIZE : 2-38mm <sup>2</sup> THHN + 1-8.0mm <sup>2</sup> TW GROUND WIRE @ 40mm $\phi$ uPVC PROTECTION : 1-100AT, 2P, 240V, 60 Hz, 15 KAIC, INDUSTRIAL TYPE MCCB																
NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON MINIATURE TYPE																



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND IMPROVEMENT OF  
GYMNASIUM ROOFING

PREPARED BY:

MARIA ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERNARD J. TUGA, PH.D.  
PRESIDENT

DATE:  
MAY 8, 2023

CAD BY:  
JBC

SHEET CONTENTS:

SCHEDULE OF LOADS  
RISER DIAGRAM

SHEET NO.:

E-02



**PURCHASE REQUEST  
PHILIPPINE NORMAL UNIVERSITY  
AGENCY**

Department: FMSS	PR No. _____	29-Sep-23	23102106
Section:	SAI No. _____	Date:	

PR No. _____	29-Sep-23	23102106
SAI No. _____	Date:	

29-Sep-23 23 10 21 06  
Date:

[illegible]

Purpose: Repair/Improvement of the University Facilities	1
----------------------------------------------------------	---

Requested by:	Approved by:
---------------	--------------

Approved by: \_\_\_\_\_

John P. Natividad	DR. BERT J. TUGA
Director	President

DR. BERT J. TUGA  
President

Date	29/09/2023
------	------------

Name of Project: **REPAIR AND IMPROVEMENT OF WORSHIP SPACE**

Subject: **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II. CIVIL/STRUCTURAL WORKS**

**A. Demolition and Earthworks**

1. Removal of roofing and ceiling, including metal and wood framing.
2. Disposal of debris and site cleanup.

**B. Steel Works**

1. Construction/erection of structural steel roof framing.
2. Epoxy priming of all structural steel.

### **III. ARCHITECTURAL WORKS**

#### **A. Roofing Works**

1. Supply and installation of pre-painted metal roof tiles, complete with bent accessories.
2. Supply and installation of polyethylene insulations in aluminum foil both sides.
3. Supply and installation of fiber cement fascia boards.
4. Construction/erection of stainless-steel handrails for mezzanine and stair.

#### **B. False Beam and Ceiling Works**

1. Supply and installation of fiber cement ceiling board on light gage metal framing.
2. Supply and installation of pre-painted metal spandrel on light gage metal framing, complete with metal moldings.

### **IV. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits.
4. Remove the existing lighting fixtures and switches.
5. Disconnect and remove any electrical equipment that is no longer needed.
6. Install new electrical wiring and conduits as needed to support the updated electrical system.
7. Install new lighting fixtures and switches as needed to support the electrical requirements.
8. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
9. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
10. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. No-Load, and Full Load Test Result
  - c. Continuity Test Result
  - d. Live test Result
11. As-built electrical drawings showing the updated electrical system.



### **SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

### **Additional Requirements and Documents to be Submitted on Bid Opening:**

- The bidder/s must conduct an onsite inspection of the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category C and D
- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of the latest PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- Similar contracts shall refer to contracts with the same major work categories. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract which will form part of the Technical Specifications as evidence.
- Roofing properties must be continuous hot-dip zinc/ 5%aluminum alloy coated steel sheets (DTI) that conformed to the Philippine National Standard. The bidder must submit a Philippine National Standard document of roofing properties during the bid opening.

- Warranty of roofing is 10 years and 2 years warranty for installation. Bidder must submit certificate of warranty for roofing and installation.
- If the bidder is existing contractor of PNU, the contractor must secure a certificate of no slippage.
- Subcontracting is allowed subject to compliance with the RA9184 requirements.

*Structural and Architectural Works*

Prepared by:



ALFREDO Q. ALARCON, JR.  
Civil Engineer, FMSS

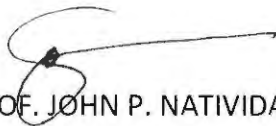
*Electrical Works*

Prepared by:



MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Recommended by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS

Project: REPAIR AND IMPROVEMENT OF WORSHIP SPACE

Subject: BILL OF QUANTITIES

Date: April 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
1.00	Mobilization/demobilization	1.00	lot	25,000.00	25,000.00
2.00	Construction safety and health	1.00	lot	50,000.00	50,000.00
3.00	Temporary facilities	1.00	lot	25,000.00	25,000.00
	<b>Subtotal</b>				<b>100,000.00</b>
<b>II</b>	<b>CIVIL/STRUCTURAL WORKS</b>				
<b>1.00</b>	<b>Demolition and Disposal Works</b>				
1.01	Removal of roofing and ceiling, including framing	1.0	lot	106,150.00	106,150.00
1.02	Disposal of debris and site cleanup	1.0	lot	58,300.00	58,300.00
	<b>Subtotal</b>				<b>164,450.00</b>
<b>2.00</b>	<b>Steel Works</b>				
2.01	Trusses and wall angles	5,901.5	kgs	58.00	342,287.00
2.02	Purlins, LC 100 x 50 x 15 x 1.5, 6.0m L	244.0	pcs	655.00	159,820.00
2.03	Steel plates (baseplates, gusset plates, etc.)	950.5	kgs	48.00	45,624.00
2.04	Lateral supports and other structures	1.0	lot	Reuse existing materials	
	<i>Chemical Anchors/Bolts</i>				
2.05	Chemical bolts, M16 x 150mm, 5.8 carbon steel, hot-dip galvanized	30.0	pcs	280.00	8,400.00
2.06	Chemical bolts, M12 x 120mm, 5.8 carbon steel, hot-dip galvanized	50.0	pcs	130.50	6,525.00
2.07	Adhesive anchor	1.0	lot	8,766.00	8,766.00
2.08	Prime coat	1.0	lot	84,890.00	84,890.00
2.09	Miscellaneous and consumables	1.0	lot	39,330.00	39,330.00
2.10	Labor and equipment	1.0	lot	238,690.00	238,690.00
	<b>Subtotal</b>				<b>934,332.00</b>
<b>III</b>	<b>ARCHITECTURAL WORKS</b>				
<b>1.00</b>	<b>Roofing Works</b>				
1.01	Prepainted metal roof tile, 0.5mm thk	526.4	sq.m.	620.00	326,368.00
	<i>Bent accessories</i>				
1.02	Prepainted ridge cap/roll, 0.457 x 2.44m, 0.6mm thk	27.0	pcs	562.00	15,174.00
1.03	Prepainted fascia cover, 0.457 x 2.44m, 0.6mm thk	26.0	pcs	745.00	19,370.00
1.04	Prepainted customized valley gutter/flashings, 0.61 x 2.44m, 0.6mm thk	16.0	pcs	923.00	14,768.00
1.05	Prepainted wall flashing, 0.457 x 2.44m, 0.6mm thk	8.0	pcs	445.00	3,560.00
1.06	Prepainted end flashing, 0.61 x 2.44m, 0.6mm thk	3.0	pcs	1,405.00	4,215.00
1.07	PE insulation, 10mm thk with 2-sided aluminum foil	426.5	sq.m.	80.00	34,120.00
1.08	Fiber cement fascia board, 0.30 x 2.44m x 12mm	27.0	pcs	500.00	13,500.00
1.09	Miscellaneous and consumables	1.0	lot	16,720.00	16,720.00
1.10	Labor and equipment	1.0	lot	111,950.00	111,950.00
	<b>Subtotal</b>				<b>559,745.00</b>
<b>2.00</b>	<b>False Beam and Ceiling Works</b>				
2.01	Fiber cement boards, 4.5mm x 1.2 x 2.4m	148.0	pcs	467.25	69,153.00

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
2.01	Fiber cement boards, 4.5mm x 1.2 x 2.4m	148.0	pcs	467.25	69,153.00
2.02	Prepainted metal spandrels, ribbed, with perforations, 100 x 0.5mm x 3.0m L, wood grain finish (submit technical data sheet)	310.0	pcs	261.00	80,910.00
2.03	Prepainted metal mouldings, 0.5mm x 3.0m L, wood grain finish	46.0	pcs	261.00	12,006.00
2.04	Corner beads, 25 x 25mm x 2.4m L	25.0	lgts	99.00	2,475.00
2.05	Wall angles, 25 x 25mm x 3.0m L, 0.5mm thk	132.0	lgts	40.61	5,360.36
2.06	Furring channels, 19 x 50mm x 4.88m L, 0.5mm thk	410.0	lgts	125.31	51,375.87
2.07	Carrying channels, 12 x 38mm x 4.88m L, 0.8mm thk	90.0	lgts	228.57	20,571.23
2.08	W-clips for double furring channels	800.0	pcs	8.00	6,400.00
2.09	Suspension hangers and supports	1.0	lot	44,685.26	44,685.26
2.10	Miscellaneous and consumables	1.0	lot	14,646.84	14,646.84
2.11	Labor and equipment	1.0	lot	92,275.00	92,275.00
	<b>Subtotal</b>				<b>399,858.56</b>
<b>IV</b>	<b>ELECTRICAL WORKS</b>				
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	20 mm Ø PVC pipe (submit technical data sheet)	75.00	pcs	141.00	10,575.00
1.02	20 mm Ø Flexible Metallic Tubing (submit technical data sheet)	30.00	lm	175.00	5,250.00
1.03	4" x 4" Octagonal Junction box (metal) ga.16	20.00	pcs	57.00	1,140.00
1.04	2" x 4" Utility box (metal) ga.16	12.00	pcs	45.00	540.00
1.05	Square box ga. 16	6.00	pcs	86.00	516.00
1.06	20 mm ØPVC male adaptor w/ locknut	70.00	pcs	25.00	1,750.00
1.07	20 mm Ø Two Hole EMT Clamp	50.00	pcs	19.50	975.00
1.08	Unistrut channel 2M	4.00	pcs	2,485.00	9,940.00
1.09	Strut channel Clamp 20mm	45.00	pcs	48.00	2,160.00
1.1	Full threaded Rod 3/8 x 3M	8.00	lgt	1,480.00	11,840.00
1.11	Nuts and washers 3/8	85.00	set	47.00	3,995.00
1.12	Grip Anchor 3/8	1.00	box	685.00	685.00
1.13	Labor and equipment	1.00	lot	14,809.80	14,809.80
<b>2.0</b>	<b>Wires and Cable (submit technical data sheet)</b>				-
2.01	3.5 sqmm THHN Stranded Wire 150m/box (OSM)	7.00	box	-	-
2.02	5.5 sqmm THHN Stranded Wire 150m/box	2.00	box	8,770.00	17,540.00
2.03	Labor and equipment	1.00	lot	19,437.00	19,437.00
<b>3.0</b>	<b>Wiring Devices</b>				-
3.01	One-Gang Single Switch Wide Series(OSM)	1.00	set	-	-
3.02	Two-Gang Single Switch Wide Series(OSM)	5.00	set	-	-
3.03	Three-Gang Single Switch Wide Series (OSM)	5.00	set	-	-
3.04	One-Gang Convenience Outlet Wide Series (OSM)	6.00	set	-	-
3.05	Labor and equipment	1.00	lot	2,500.00	2,500.00
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet)</b>				
4.01	Power Panel 1 Circuit Breakers (Bolt-On Miniature Type) Main: 200AT, 2P, 240 Volts, 60Hz, 25 KAIC Branches: 1-63AT 15 KAIC 2P, 8-32AT 2P, 9-20AT 2P, 240 Volts, 60 Hz, MCB 10 KAIC	1.00	assy	115,236.00	115,236.00
4.02	Lighting Panel Circuit Breakers (Bolt-On Miniature Type) Main: 63AT, 2P, 240 Volts, 60Hz, 15 KAIC Branches: 10-20AT 2P, 240 Volts, 60 Hz, CB	1.00	assy	25,760.00	25,760.00
4.03	Nema 3R Safety Switch - ACU 32AT, 2P, 240 Volts, 60Hz, 10 KAIC, in NEMA 3R Enclosure	4.00	assy	2,850.00	11,400.00
4.04	Labor	1.00	lot	45,718.80	45,718.80
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet)</b>				-
5.01	9 Watts LED Bulb WW E/27 in 4" receptacle	2.00	set	247.00	494.00




Date: April 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
5.02	12Watts LED Slim Type Recessed Downlight (DL) Round	17.00	set	1,099.00	18,683.00
5.03	12Watts LED Slim Type Surface Mounted Downlight (DL)	14.00	set	1,199.00	16,786.00
5.04	9 Watts WW LED Wall Lights Frosted Glass Fixture	12.00	set	1,599.00	19,188.00
5.05	40 Watts Downlight COB Folding Track light Spot Light	4.00	set	1,395.00	5,580.00
5.06	LED Emergency Light Dual Optics 2x 1 Watts (OSM)	5.00	pcs		-
5.07	Double Face Exit Light Ceiling Mounted AC/DC	1.00	pcs	2,150.00	2,150.00
5.08	Labor and equipment	1.00	lot	21,255.85	21,255.85
<b>6.0</b>	<b>Miscellaneous</b>				-
6.01	Electrical Tape	6.00	pcs	65.00	390.00
6.02	G.I. pull wire	3.00	kgs	75.00	225.00
6.03	butane gas	1.00	pcs	120.00	120.00
6.04	torch head	1.00	pcs	750.00	750.00
6.05	hacksaw blade	1.00	pcs	115.00	115.00
6.06	1" Black Screw	2.00	box	250.00	500.00
6.07	# 6 Plastic Tox	2.00	box	150.00	300.00
6.08	Drill Bit	2.00	pcs	150.00	300.00
6.09	4" Concrete Cutting Disc	1.00	pcs	750.00	750.00
6.1	Consumables	1.00	lot	4,000.00	4,000.00
6.11	Labor and equipment	1.00	lot	2,235.00	2,235.00
<b>7.0</b>	<b>Testing and Commissioning</b>				-
7.01	Testing and Commissioning	1.00	lot	25,000.00	25,000.00
	<b>Subtotal</b>				<b>420,589.45</b>
	<b>TOTAL DIRECT COST</b>				<b>2,578,975.01</b>
	<b>INDIRECT COST</b>				
	OCM				297,477.00
	Contractor's profit				247,897.50
	VAT				374,921.94
	<b>TOTAL COST</b>				<b>3,499,271.45</b>

*Structural and Architectural Works*

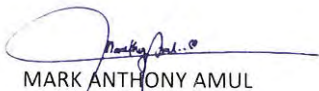
Prepared by:



ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

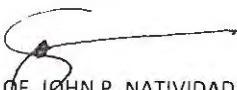
*Electrical Works*

Prepared by:



MARK ANTHONY AMUL  
Electrical Engineer, FMSS

Recommended by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS



# DETAILED UNIT PRICE ANALYSIS (DUPA)

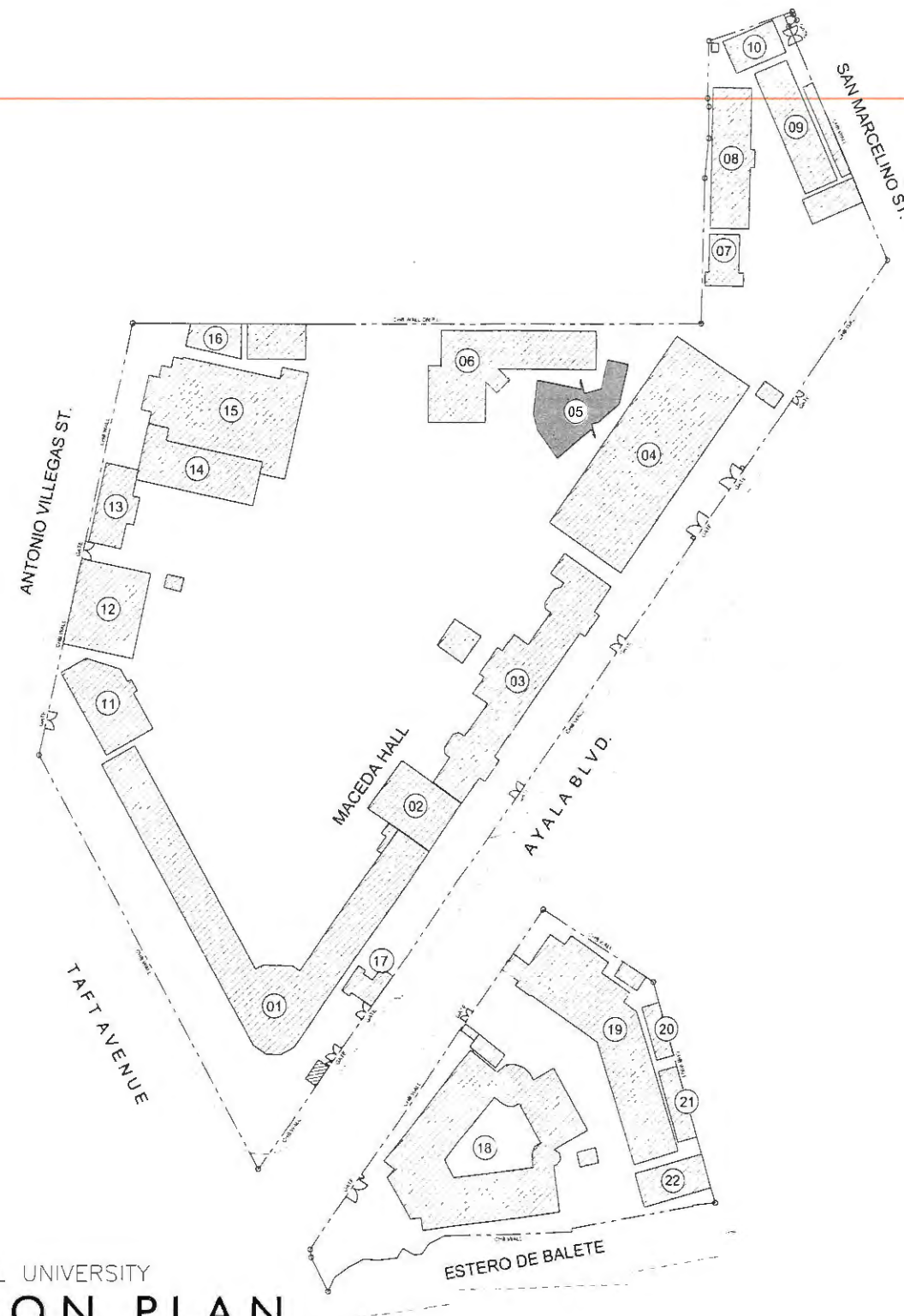
NAME OF PROJECT:  
LOCATION:

Item No. / Description  
Unit of Measurement  
Output per hour

	Designation	No. of Person	No. of Hours	Hourly Rate	Amount
A.	Labor				
	Sub-Total for A				
	Name and Capacity	No. of Units	No. of Hours	Rental Rate	Amount
B.	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
	Name and Specifications	Unit	Quantity	Unit Cost	Amount
F.	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				12% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

Prepared / Submitted by:

\_\_\_\_\_  
Signature Over Printed Name  
Company



PHILIPPINE NORMAL UNIVERSITY  
**LOCATION PLAN**  
1  
A-01 NTS

PHILIPPINE NORMAL UNIVERSITY	
BUILDINGS:	
SYMBOL	DESCRIPTION
01	GERONIMA T. PECSON HALL
02	MACEDA HALL
03	FACULTY CENTER
04	EDILBERTO P. DAGOT HALL
05	WORSHIP SPACE
06	BONIFACIO P. SIBAYAN HALL
07	MEDICAL AND DENTAL CLINIC
08	OLD ITL (ELEMENTARY)
09	OLD ITL (HIGH SCHOOL)
10	MATERIAL RECOVERY FACILITY
11	PEDRO T. ORATA HALL
12	FINANCE BUILDING
13	GUSALI NG WIKA BUILDING
14	CULTURE AND SPORTS BUILDING
15	GYMNASIUM
16	IPEHRDS FACULTY BUILDING
17	SECURITY SERVICES AND SAFETY MANAGEMENT UNIT
18	NORMAL HALL
19	HRD BUILDING
20	ANNEX CLASSROOM - A
21	ANNEX CLASSROOM - B
22	HOSTEL

LOCATION PLAN	
LEGEND:	
SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	BOUNDARY LINE
■	BUILDINGS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND IMPROVEMENT OF  
WORSHIP SPACE

PREPARED BY:

ALFREDO G. ALARCON JR.  
CIVIL ENGINEER, FMSS

PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
PRESIDENT

DATE:  
MAY 5, 2023

CAD BY:  
JBMC

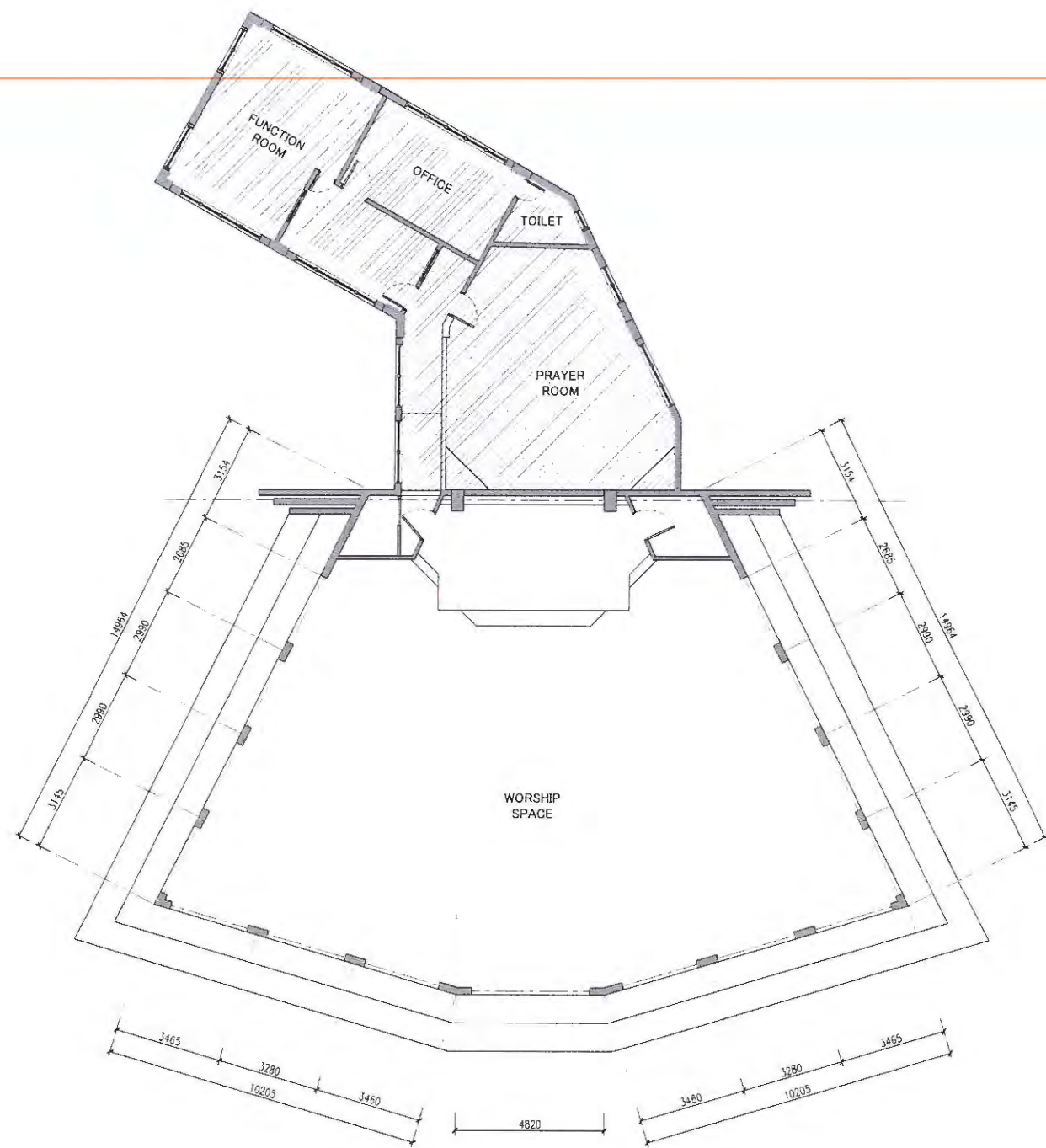
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LOCATION PLAN

SHEET NO.:

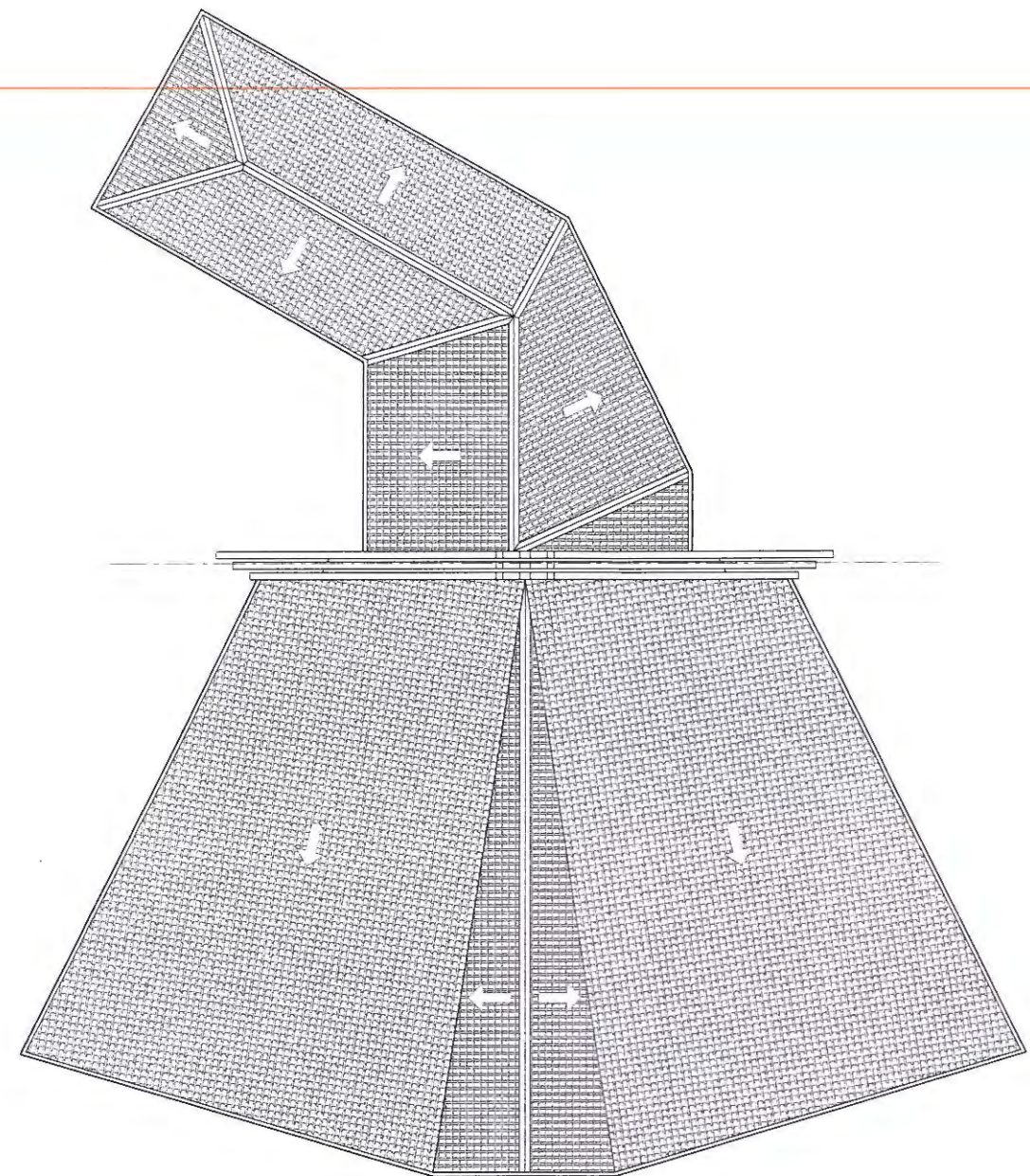
A-01





2  
A-02 NTS

WORSHIP SPACE  
**EXISTING GROUND FLOOR PLAN**



3  
A-02 NTS

WORSHIP SPACE  
**EXISTING ROOF PLAN**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

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PRESIDENT

DATE:

MAY 5, 2023

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JBMC

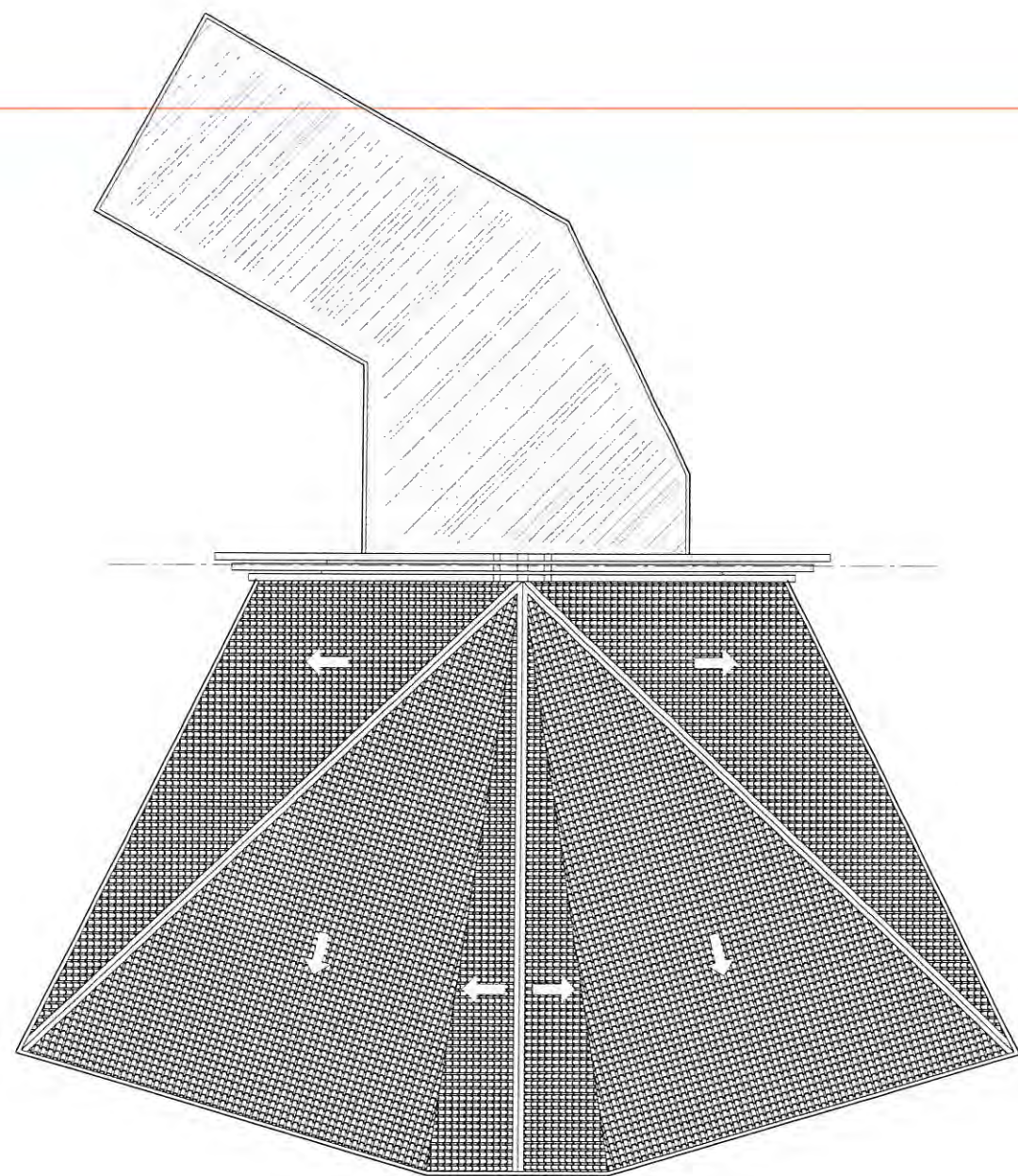
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FLOOR PLAN  
ROOF PLAN

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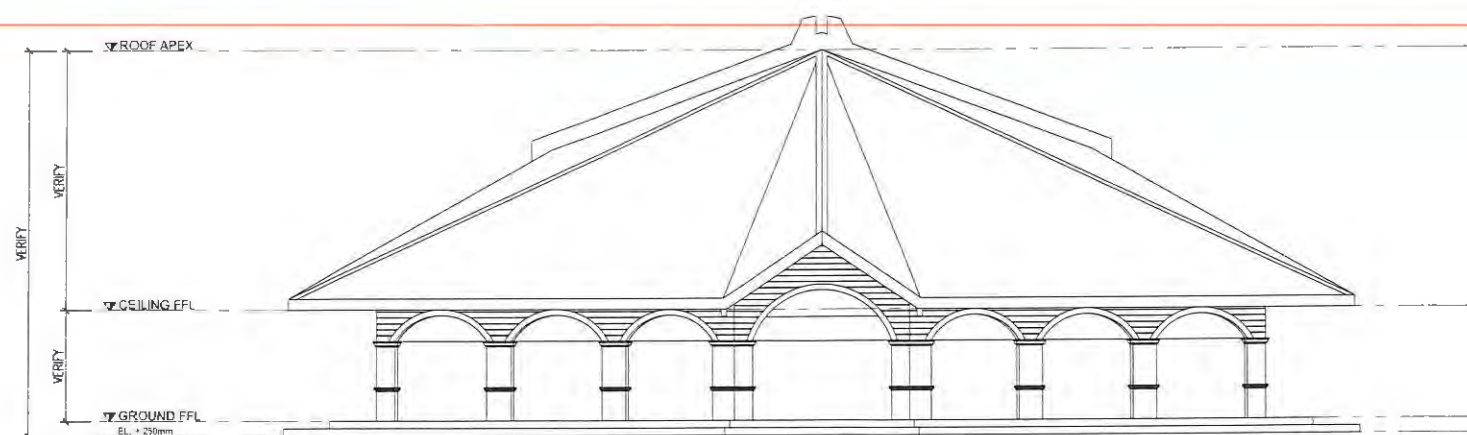
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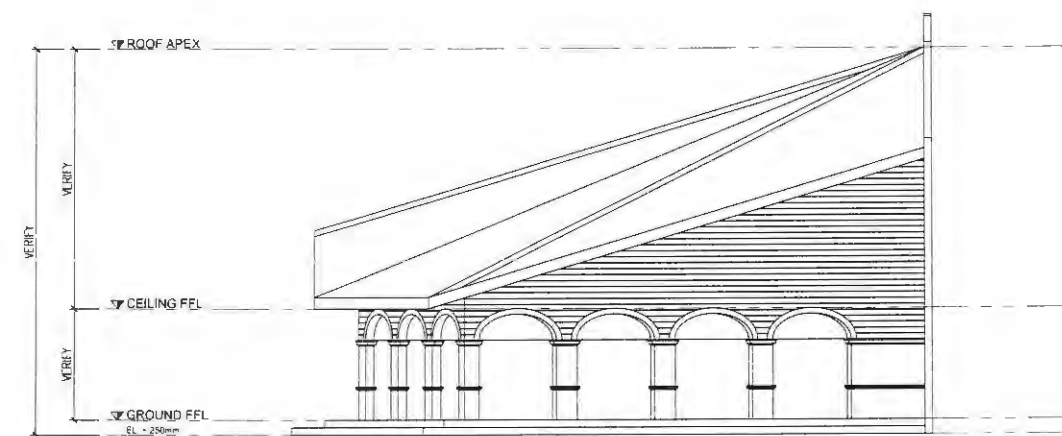
4  
A-03 NTS

WORSHIP SPACE  
**PROPOSED ROOF PLAN**



4  
A-03 NTS

WORSHIP SPACE  
**FRONT ELEVATION**



5  
A-03 NTS

WORSHIP SPACE  
**RIGHT SIDE ELEVATION**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE

REPAIR AND IMPROVEMENT OF  
WORSHIP SPACE

PREPARED BY:

ALFREDO GALARCON JR.  
CIVIL ENGINEER, FMSS

PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

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CAD BY  
JBMC

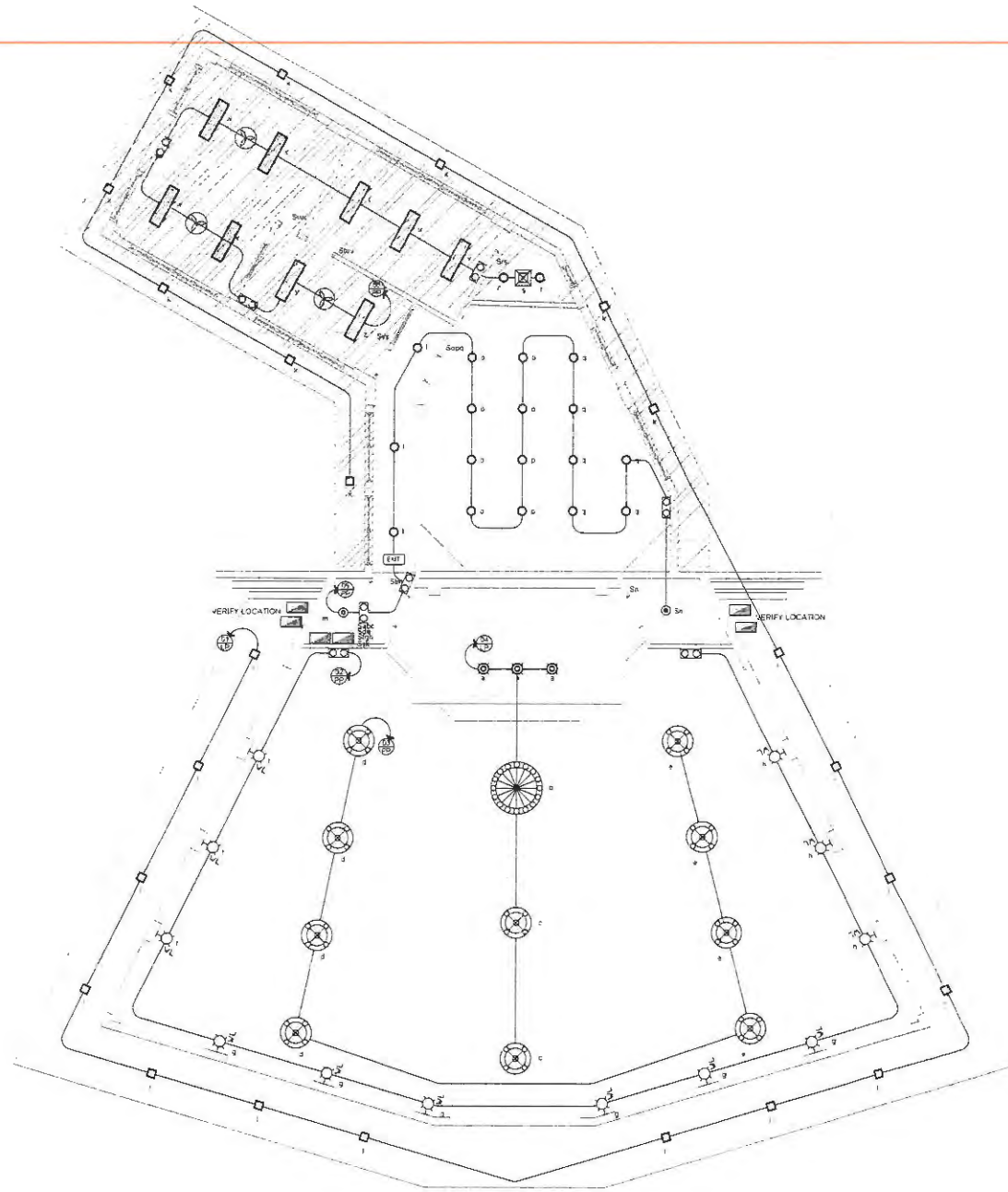
SHEET CONTENTS.

ROOF PLAN  
ELEVATIONS

SHEET NO.

A-03





1  
E-01 NTS  
WORSHIP SPACE  
LIGHTING LAYOUT

#### GENERAL NOTES

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
2. UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.
3. ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
4. ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
5. PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
6. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
7. ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
8. MOUNTING HEIGHTS:
 

LIGHTING CONTROL SWITCHES	1.40 M . ABOVE FFL. & 150 MM FROM JAMBS
CONVENIENCE OUTLET	0.30 M ABOVE FLOOR FINISH
COUNTER HEIGHT OUTLET	0.30 M ABOVE COUNTER FINISH
PANEL BOARD	1.40 M ABOVE FLOOR FINISH
9. ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
10. ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
11. THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
12. POWER SUPPLY SHALL BE 230 VOLTS, SINGLE PHASE, 2 WIRES PLUS GROUND, 60 HERTZ.

LEGEND	
SYMBOL	DESCRIPTION
Sa	SINGLE POLE, ONE GANG SWITCH
Sab	SINGLE POLE, TWO GANG SWITCH
Sabc	SINGLE POLE, THREE GANG SWITCH
○	10 WATTS COB LED DOWNLIGHT RECESSED MOUNTED
⊙	9 WATTS LED BULB E27 / IN 4" RECEPTACLE
□	12 WATTS WW COB LED DOWNLIGHT SURFACE MOUNTED SQUARE
▬	2-18 TUBULAR LED IN RECESSED TROFFER TYPE FIXTURE
▬	1-18 TUBULAR LED IN RECESSED TROFFER TYPE FIXTURE
⊙	40 WATTS DOWNLIGHT COB FOLDING TRACK LIGHT SPOT LIGHT
⊙	WALL LAMP FROSTED GLASS / 9W E27 LED WW
⊙	EMERGENCY LAMP
EXIT	EXIT LIGHT
⊙	15" ORBIT FAN
⊙	POWER PANEL
⊙	LIGHTING PANEL
⊙	CIRCUIT HOMERUN
⊙	CHANDELIER 4 BULBS
⊙	CHANDELIER 16 BULBS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE

REPAIR AND IMPROVEMENT OF  
WORSHIP SPACE

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
PRESIDENT

DATE

MAY 5, 2023

CAD BY

JBMC

SHEET CONTENTS

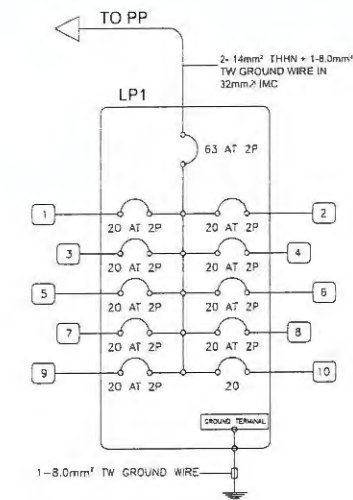
GENERAL NOTES  
LIGHTING LAYOUT  
LEGENDS

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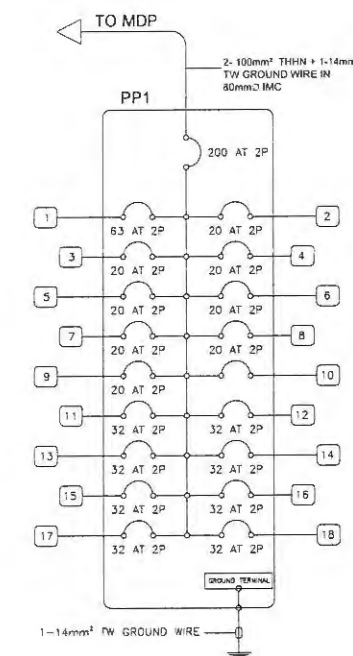
E-01



LP1																	
Ckt. No.	Load Description	No. of C.O.	No. of L.O.	Switches				Volts	VA Rating	Ampere Load				Overcurrent Protection			Size of Wire, Ground Wire, and Conduit
				S1	S2	S3	S3W			A8φ	BCφ	CAφ	3φ	AT	P	AF	
1	LIGHTING OUTLET		23					230	1150	5.00				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
2	LIGHTING OUTLET	2	12					230	700	3.04				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
3	LIGHTING OUTLET		32					230	1600	6.96				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
4	LIGHTING OUTLET		27					230	1350	5.87				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
5	LIGHTING OUTLET	4	19					230	1150	5.00				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
6	LIGHTING OUTLET	7	15					230	1100	4.78				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
7	SPARE							230	1000	4.35				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
8	SPARE							230	1000	4.35				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
9	SPARE							230	1000	4.35				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
10	SPARE							230	1000	4.35				20	2	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
									</								



PP1																	
Ckt. No.	Load Description	No. of C.O.	No. of L.O.	Switches				Volts	VA Rating	Ampere Load				Overcurrent Protection			Size of Wire, Ground Wire, and Conduit
				S1	S2	S3	S3W			ABφ	BCφ	CAφ	3φ	AT	P	AF	
1	LIGHTING OUTLET	11	129					230	11000	48.04				63	2	63	USE 2-14.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1-8.0 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
2	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
3	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
4	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
5	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
6	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
7	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
8	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
9	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
10	CONVENIENCE OUTLET	10						230	1800	7.83				20	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
11	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit
12	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
13	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
14	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
15	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
16	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
17	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
18	2.5 HP SPLIT-TYPE ACU							230	3450	15				32	2	63	USE 2-3.5 mm <sup>2</sup> THHN Stranded Copper Wire + 1-3.5 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit
TOTAL									54800	238.47							
FULL LOAD CURRENT:				[238.47 + (0.25 * 15)] * 80%DF =				193.78									
FEEDER CONDUCTORS				USE 2-100 mm <sup>2</sup> THHN Stranded Copper Wire + 14.0 mm <sup>2</sup> TW Ground Wire @ 80 mm Ø uPVC													
OVERLOAD PROTECTION:				USE 1-200AT, 2P, 240 V, 20 kAIC, 60 Hz, Molded-Case Circuit Breaker													



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND RENOVATION OF  
WORSHIP SPACE

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS

PRC NUMBER 74155  
PTR NUMBER MLA 0848421

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
PRESIDENT

DATE:  
MAY 5, 2023

CAD BY:  
JBMC

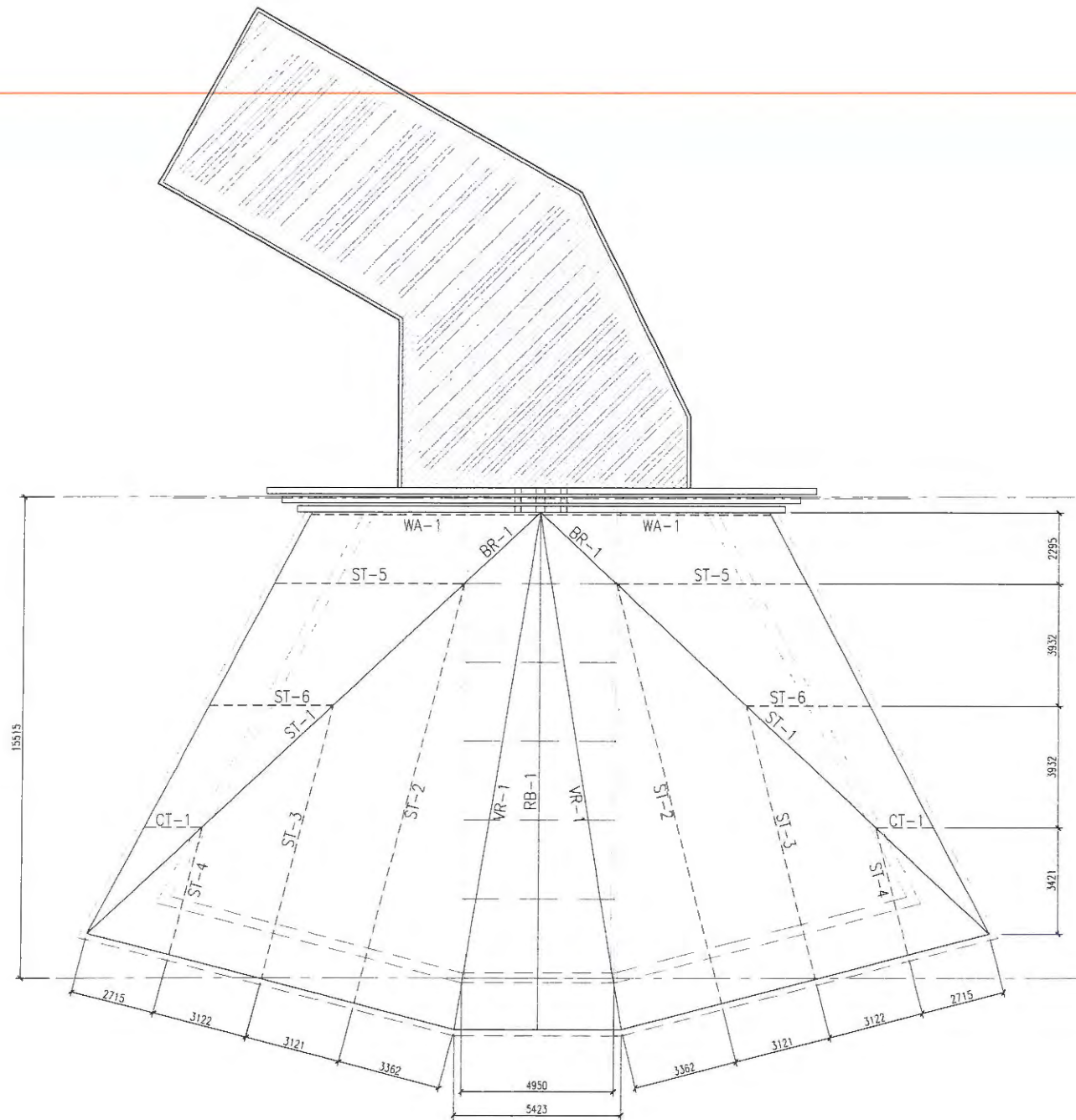
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SCHEDULE OF LOADS  
RISER DIAGRAM

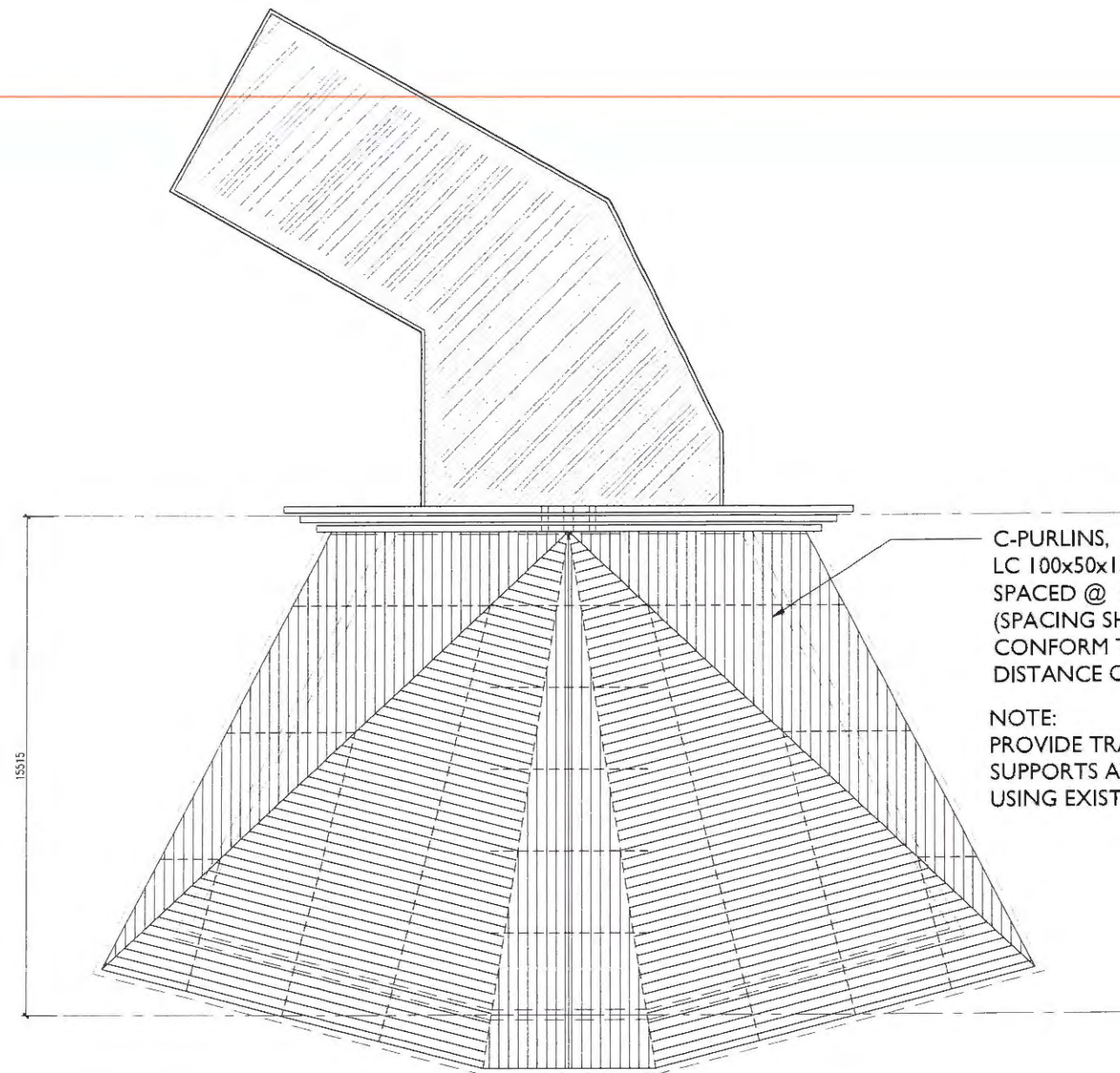
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E-02





WORSHIP SPACE  
**1 ROOF FRAMING PLAN**  
 S-01 NTS



WORSHIP SPACE  
**2 PURLINS INSTALLATION PLAN**  
 S-01 NTS



Republic of the Philippines  
 PHILIPPINE NORMAL UNIVERSITY  
 Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND IMPROVEMENT OF  
 WORSHIP SPACE

PREPARED BY:

ALFREDO G. ALARCON JR.  
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 PRC NUMBER 59405  
 PTR NUMBER 0845420

SUBMITTED BY:

JOHN P. NATIVIDAD  
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JOSE M. OCAMPO JR., PH.D.  
 VICE-PRESIDENT FOR FINANCE  
 AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
 PRESIDENT

DATE:

MAY 5, 2023

CAD BY:

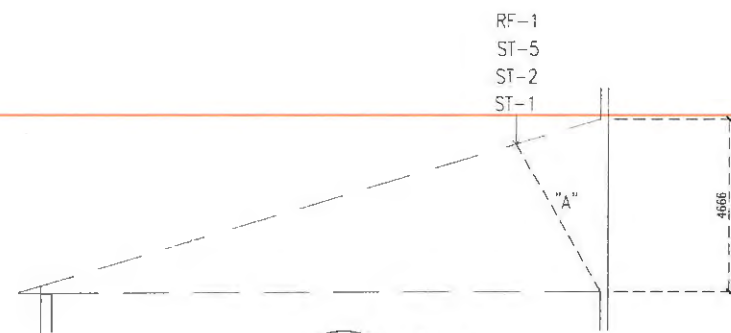
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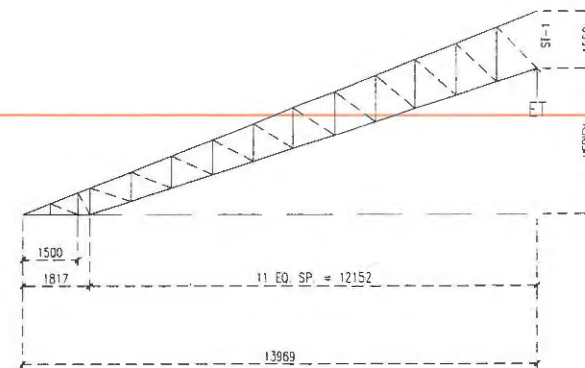
ROOF FRAMING PLAN  
 PURLINS INSTALLATION  
 PLAN

SHEET NO.:

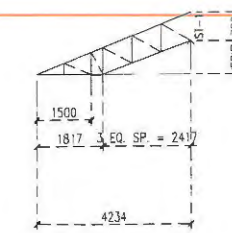
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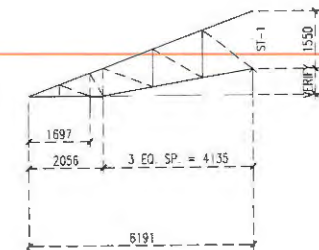
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S-02 ET  
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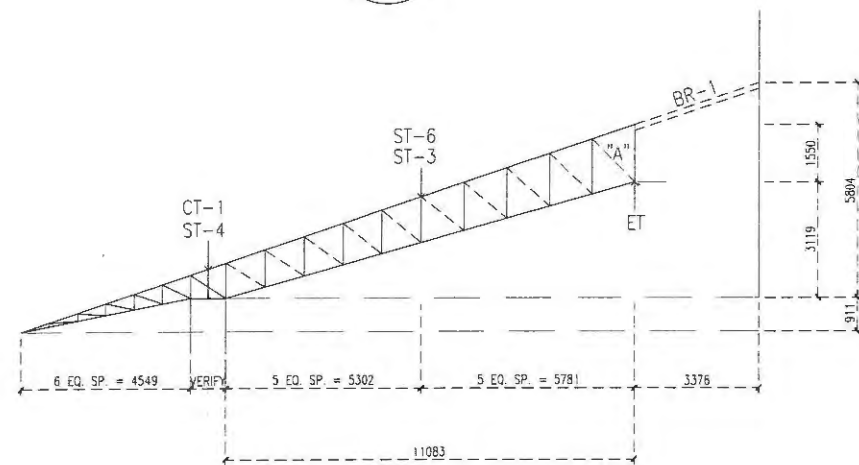
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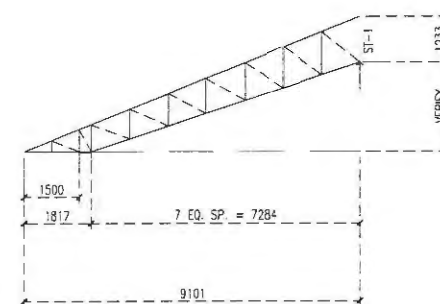
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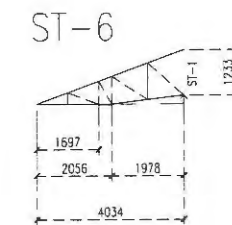
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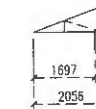
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6  
S-02 ST-3  
NTS



9  
S-02 ST-6  
NTS



10  
S-02 CT-1  
NTS

## SCHEDULE OF TRUSSES

MARK		TOP CHORD	BOTTOM CHORD	KING POST	WEB MEMBERS	WEB MEMBER "A"
ET	EXISTING TRUSS	(REUSE AND REINFORCE WITH EXISTING MATERIALS IF NECESSARY)				2L - 65x65x8
ST-1	SLOPING BOTTOM CHORD TRUSS	2L - 65x65x8	2L - 65x65x8	2L - 65x65x8	2L - 50x50x6	2L - 65x65x6
ST-2	SLOPING BOTTOM CHORD TRUSS	2L - 65x65x8	2L - 65x65x8	-	2L - 50x50x6	-
ST-3	SLOPING BOTTOM CHORD TRUSS	2L - 50x50x6	2L - 50x50x6	-	2L - 40x40x5	-
ST-4	SLOPING BOTTOM CHORD TRUSS	2L - 50x50x6	2L - 50x50x6	-	2L - 40x40x5	-
ST-5	SLOPING BOTTOM CHORD TRUSS	2L - 50x50x6	2L - 50x50x6	-	2L - 40x40x5	-
ST-6	SLOPING BOTTOM CHORD TRUSS	2L - 50x50x6	2L - 50x50x6	-	2L - 40x40x5	-
CT-1		2L - 50x50x6	2L - 50x50x6	-	-	-
WA-1	WALL ANGLE	1L - 75x75x6				
RB-1	BUILT-UP RIDGE BOARD/BEAM	REUSE EXISTING MATERIALS (AT LEAST 2 L50x50x6 OR 2 C-PURLINS)				
VR-1	BUILT-UP VALLEY RAFTER	REUSE EXISTING MATERIALS (AT LEAST 2 L50x50x6 OR 2 C-PURLINS)				
R-1	BUILT-UP RAFTER	REUSE EXISTING MATERIALS (AT LEAST 4 L50x50x6)				



Republic of the Philippines  
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Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND IMPROVEMENT OF  
WORSHIP SPACE

PREPARED BY:

ALFREDO G. ALARCON JR.  
CIVIL ENGINEER, FMSS

PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
PRESIDENT

DATE:

MAY 5, 2023

CAD BY:  
JBMC

SHEET CONTENTS:

SCHEDULE OF TRUSSES

SHEET NO.:



S-02



Department: FMSS	PR No. _____	31-Mar-23
Section: _____	SAI No. _____	Date: 23 04 0772

Philippine Normal University  
OFFICE OF THE  
UNIVERSITY PRESIDENT  
**RECEIVED**  
Date: 7/31/2023  
By: [Signature]

Included in the Approved PPMP/APP 2023  
Checked by Kris Date 4/17/23

	Requested by:	Approved by:
Signature		
Printed Name	John P. Natividad Director	DR. BERT J. TUGA President
Date	31/03/2023	

**JASTINE BREATHE A. PACURIB**  
Accountant III



Name of Project:       **REPAIR AND RENOVATION OF HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT SERVICES OFFICE**

Location:               GERONIMA PECSON HALL, GROUND FLOOR AYALA WING

Subject:                 **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II. CIVIL/STRUCTURAL WORKS**

**A. Demolition and Earthworks**

1. Removal of mezzanine and ceiling.
2. Demolition of comfort room and pantry, including all accessories.
3. Removal of floor and wall finishes and all unnecessary flooring and wall attachments.
4. Cutting and breaking of concrete slab for foundations and plumbing works.
5. Excavation for foundations and plumbing works, backfilling, and compaction.
6. Gravel bedding for footing and slab on fill.
7. Disposal of debris and site cleanup.

#### **B. Reinforced Concrete and Masonry Works**

1. Construction of reinforced concrete footing and pedestal.
2. Restoration of reinforced concrete floor slab.
3. Supply and application of non-shrink grout.
4. Repair/plastering/replastering of concrete/masonry structures.
5. Repair and leveling/topping of concrete flooring.

#### **C. Structural Steel Works**

1. Construction/erection of structural steel framing for mezzanine, including steel framing for stair.
2. Epoxy priming of all structural steel.

### **III. ARCHITECTURAL WORKS**

#### **A. T304 Stainless Steel Railing**

1. Construction/erection of stainless-steel handrails for mezzanine and stair.

#### **B. Partition Works**

1. Supply and installation of fiber cement wall board on light gage metal framing.
2. Supply and installation of cement board on light gage metal framing for tile backing board at comfort room.
3. Supply and installation of rockwool insulation.

#### **C. Ceiling Works**

1. Supply and installation of fiber cement ceiling board on light gage metal framing.
2. Supply and installation of fiber cement ceiling board on light gage metal framing, complete with cove on Director's Office.
3. Supply and installation of moldings and cornices.

#### **D. Floor and Wall Finishes**

1. Supply and installation of fiber cement flooring, including stair treads and risers.
2. Supply and installation of vinyl wood planks on mezzanine and stair.
3. Supply and installation of stair nosing.
4. Supply and installation of floor and wall tiles.
5. Supply and installation of wood parquet on ground floor.
6. Supply and installation of baseboards.

#### **E. Carpentry Works: Wooden Doors and Windows**

1. Supply and installation of flush door and jamb, with louver, high pressure laminate wood grain finish.
2. Supply and installation of 2-leaf flush door and jamb, high pressure laminate wood grain finish.
3. Repair/Restoration/refurbishment of existing capiz windows and frames.

#### **F. Glass Works**

1. Supply and installation of tempered glass wall in aluminum frame.
2. Supply and installation of tempered glass doors in aluminum frame.
3. Supply and installation of tempered fixed glass windows in aluminum frame.

#### **G. Painting Works**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. Painting/repainting of interior masonry and concrete finishes and drywalls using acrylic latex paint.
3. Painting of slab soffit and fiber cement ceiling board using semi-gloss or flat acrylic latex paint.
4. Painting/Repainting of wood and steel finishes using quick-drying alkyd enamel paints.
5. Painting/Re-varnishing of capiz window frames.

#### **H. Other Works**

1. Supply and installation of WPC fluted cladding on the wall and door of the Vice-President for Finance and Administration (VPFA) Office.
2. Replacement and fixing of hardware of several glass doors at Faculty Center.
3. Repair and/or replacement of parts of several glass doors at ground floor, Taft Wing of Geronima T. Pecson Hall.

### **IV. PLUMBING WORKS**

#### **A. Piping Replacement Works**

1. Supply and installation of cold-water lines, including valves, fittings, and accessories.
2. Supply of plastic tube welding tool fusion machine.
3. Supply and installation of sanitary piping/lines.

#### **B. Plumbing Fixtures and Toilet Accessories**

1. Supply and installation of water closet complete with bidet and plumbing accessories.

2. Supply and installation of semi-pedestal lavatory, complete with heavy-duty faucet and plumbing accessories.
3. Supply and installation of faucet, floor drain strainer, and cleanout cover plate.
4. Supply and installation of toilet accessories: toilet paper holder, soap dispenser, and mirror.

## **V. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits.
4. Remove the existing lighting fixtures and power outlets and switches.
5. Disconnect and remove any electrical equipment that is no longer needed.
6. Install new electrical wiring and conduits as needed to support the updated electrical system.
7. Upgrade the lighting system with energy-efficient LED fixtures that provide adequate illumination while reducing energy consumption.
8. Install new power outlets and switches as needed to support the office's electrical requirements.
9. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
10. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
11. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. No-Load, and Full Load Test Result
  - c. Continuity Test Result
  - d. Live test Result
12. As-built electrical drawings showing the updated electrical system.



### **SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

### **TECHNICAL SPECIFICATIONS**

#### **GENERAL NOTES:**

1. The Contractor is expected to review the specifications and to verify all measurements and dimensions at the site. In case of discrepancy in details and dimensions; it shall be brought to the attention of the Engineer for clarification.
2. All works shall be done in the best workmanship manner and in accordance with the local practice of highest industry-accepted standards.
3. All materials shall be subject to approval. The Contractor shall submit the material technical data and/or samples appropriately.

#### **DEMOLITION WORKS**

1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary for the demolition works as described in the Scope of Works.
2. Cap all existing water and sewer lines which might be needed for reconnections to new construction.
3. Execute demolition works in such a manner as to ensure the protection of adjacent properties against damage.
4. Haul and remove, as it accumulates, debris resulting from demolition. Woods, glasses, toilet bowls, steels, and other combustible must not be burned on site.

## **STRUCTURAL STEEL**

### **1. Scope of Work:**

The work includes the fabrication, erection/installation, and painting of structural steel.

### **2. Codes and Standards:**

All structural steel works shall be in accordance with the applicable provisions of the following:

- a. National Structural Code of the Philippines
- b. American Institute of Steel Construction (AISC), Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings.
- c. American Society of Testing and Materials (ASTM)
- d. American Welding Society

### **3. Submittals:**

- a) Shop drawings: Submit shop drawings for approval prior to fabrication. Include complete information necessary for the fabrication and erection of the structure's components, including the location, type, and size of bolts, welds, member sizes and lengths, connection detail, blocks, copes, and cuts.
- b) Erection Plan: Submit erection plan for record purposes, indicating the sequence of erection, temporary shoring and bracing, and a detailed sequence of welding.
- c) Manufacturer's Certificate:
  - i. Structural steel (ASTM A36)
  - ii. Chemical anchors
  - iii. Bolts, nuts and washers
  - iv. Shop painting materials
  - v. Welding electrodes and rods
  - vi. Non-shrink grout (if needed)
- d) Welding: Submit descriptive data to illustrate the sequence of welding. Perform welding with qualified welders (with certifications). However, any welder found to be producing unsatisfactory work shall be immediately re-certified or replaced with another qualified welder.

### **4. Fabrication/pre-erection:**

- a. Markings: Prior to erection, members shall be provided with an erection mark. Do not locate erection markings on areas to be welded or on surfaces of weathering steels that will be exposed in the completed structure. Do not locate markings in areas that will decrease member strength or cause stress concentrations.

- b. Shop Painting: Shop-paint structural steel, except as modified herein. Do not paint steel embedded in concrete, galvanized surfaces, bearing surfaces, or surfaces within ½ inch of the toe of the welds prior to welding. Prior to assembly, paint surfaces which will be concealed or inaccessible after assembly. Do not apply paint in foggy or rainy weather. Repair damaged primed surfaces with an additional coat of primer.
- c. Bearing Surfaces and Friction Type Joints: In the shop, apply with a temporary rust preventive coating. Remove coating as recommended by the coating manufacturer, immediately prior to field erection.

## **5. Erection:**

- a. The structural steel shall be installed in a manner that will ensure rigidity and structural integrity.
- b. Use apt and adequate equipment to ensure safe and proper erection of the steel frame.
- c. Contact surfaces shall be free from dirt, oil, loose scale, butts, and other defects that would prevent solid seating of the members.
- d. Chemical anchors: Holes shall be drilled on the concrete structures up to the required depth. The hole shall then be cleared of all debris using compressed air, a vacuum or wire brush. Injection adhesive shall be applied to the holes using manual dispenser. Anchors shall be inserted and hammered into the holes ensuring they are installed to the required depth and securely in place, waiting for the adhesive to be fully cured (as stated in the manufacturer's manual) before tightening the nuts.
- e. All bolted parts shall fit solidly together when assembled without interposition of gaskets or any other flexible materials.
- f. Holes maybe punched, sub-punched and reamed or drilled as required and shall be at right angles to the surface of the metal.
- g. Welding: All welding works shall be in accordance with the Standard Code of Arc and Gas Welding in building construction of the American Welding Society.

## **FIBER CEMENT BOARD**

### **1. Submittals**

- a. Material Technical Data
- b. Samples:
  - i. Two 300mm square boards of each required type.
  - ii. Two 300mm long of each type of metal studs and furring.

2. **Materials:** Unless otherwise necessary, materials shall be supplied by only one manufacturer.

a. Fiber cement board:

i. Thickness: 6.0mm for wall, 4.5mm for ceiling, squared edges

ii. Fire rating: more than 2 hours

iii. See table for Physical Properties

b. Structural framing:

i. Runners: Channel or angle shaped. Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, shall be used.

ii. Metal Studs: Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, for the wall system and height indicated shall be used.

iii. Furring channels: Cold-rolled galvanized steel, flanged channel type for wall furring and ceiling attachment shall be used.

c. Suspension members for ceiling:

i. Hangers: Galvanized hangers, minimum 10mm diameter threaded rods shall be used.

ii. Carrying channel: Cold-rolled galvanized channels, 1.0mm thk, 38mm depth shall be used.

iii. Furring channels: Cold-rolled galvanized steel channels, 0.6mm thk, minimum 19mm flange depth shall be used.

d. Fasteners: For all applications involving drywall, comply with the manufacturer's recommendations.

### 3. Installation:

a. General:

i. Install all materials and systems in accordance with the manufacturer's instructions unless otherwise shown or directed.

ii. Install the maximum practical lengths of fiber cement or plasterboard to span walls and ceiling with a minimum number of end butt joints.

iii. Apply pressure to the surface of wallboard while fastener is being driven to ensure that wallboard will be secured tightly to the supporting frame.

b. Wall:



- i. Provide additional framing and blocking as required to support wallboards at openings and cut-outs, and to support built-in anchorage and attachment devices for other works.
  - ii. Provide 50mm x 75mm, 2.0mm steel tubular frame extending from the flooring to the soffit of slab above, if needed, to support in the stabilization of partitions and especially in the installation of doors.
- c. Ceiling:
  - i. Provide hangers and inserts necessary to support suspended ceilings, giving attention to the correct location and alignment.
  - ii. Provide frames for all openings with furring strips so that recessed items shall finish flush with the ceiling, unless otherwise shown on drawings.
  - iii. Provide sufficient hangers on each side of lighting fixtures, diffusers, and other similar items.
  - iv. Secure furring channels to primary suspension runners/carrying channels by appropriate clips. Space furring channels at 0.40m on centers or as recommended by the wallboard manufacturer, whichever is smaller.

#### **4. Quality Control Verification Items:**

- a. Sample, type, specification, dimension, color pattern, appearance, and dryness of material in comparison with the sample.
- b. Method and sequence of installation.
- c. Reference mark and layout
- d. Spacing, alignment, plumbness, deformation (if any)
- e. Detail of connection.
- f. Fastening condition of boards.
- g. Cleaning of exposed surfaces.
- h. Protection.

## **TILE WORKS**

### **1. Submittals**

- a. Working drawings
- b. Material Technical Data
- c. Manufacturer' Standard Color Chart
- d. Samples:
  - i. Two samples of each type of tiles showing color, finish and pattern.

ii. One of each type of tile required, assembled on not less than 600 mm square plywood or hardboard backing and grouted after selection.

iii. Two full size samples of each tile accessory if necessary.

2. **Materials:** The selected tiles shall match the accepted samples in all respects. The Contractor shall obtain tile from one source or producer, and from same production run and of consistent quality in appearance and physical properties for each contiguous.

a. Homogeneous granite tiles: Tiles shall be full-body, non-slip and wear and stain resistant. (See table for additional properties)

b. Unglazed floor tiles for Restrooms: The selected type shall be full body vitrified, water resistant, unglazed, and abrasive type slip resistant.

c. Glazed wall tiles for Restrooms: Tiles shall be non-vitreous body and brightly glazed.

d. Mortar:

i. When setting tiles in mortar bed use Portland cement mortar

ii. When setting in thin set mortar use dry set tile adhesive

e. Grout: As selected from manufacturer's full range

3. **Pre-installation:**

a. Prior to the installation of tiles, coordinate with the Engineer and to other trades affected by the installation.

b. Verify that substrates are firm, dry, clean, and free of any residues that may affect the quality of installation.

c. Verify that installation of electrical, mechanical, and plumbing units of works and other similar items located in or behind tile have been completed before installing tiles.

d. Proceed with installation only after unsatisfactory conditions have been corrected.

e. Color blend tiles before installing. Furnish the same lots, batches, etc. within the same contiguous area of the site.

4. **Installation:** Unless otherwise specified, installation shall be based on industry-accepted best practices.

5. **Quality Control Verification Items:**

a. Sample, type, specification, shape, dimension, pattern, and appearance of material in comparison with the sample.

b. Method and sequence of installation.

c. Preparation of substrate surface.

d. Reference mark and layout mark.

- e. Mixing and hardness of mortar bed
- f. Degree of tile adhesion
- g. Levelness, plumbness, and alignment of installed tiles
- h. Width, alignment, filling of joint and finish condition.
- i. Cleaning of surface.
- j. Method and duration of curing.
- k. Protection

## **GLASS AND GLAZING WORKS**

### **Scope of Work:**

The work under this section includes the furnishing of all necessary materials, labor, services, and equipment to perform glass and glazing works as indicated by the drawings and/or specified herein.

### **Product Handling:**

- All necessary means shall be used to protect glass and other materials specified under this Section from damage before, during, and after installation. Damaged glass is a glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- Materials shall be suitably stored and handled at the site in such a manner as to prevent damage to edges and corners. Store the materials in a dry and well-ventilated area.
- In the event of damage to materials or work in place, all necessary repairs and replacements shall be immediately made to the satisfaction of the Engineer at no additional cost.
- Materials shall be delivered to the jobsite in the manufacturer's original containers bearing the manufacturer's standard identification labels. Do not remove the labels until the materials are thoroughly inspected by the Engineer.

### **Materials:**

- Annealed Glass: ASTM C 1036, Type I, Class I unless otherwise indicated.
  - Thickness: 6.0mm
- Tempered Glass: ASTM C 1048, Type I, Class I unless otherwise indicated.
  - Thickness: 6.0mm
  - Provide safety glazing labeling.
- Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:
  - Neoprene complying with ASTM C 864.

- EPDM complying with ASTM C 864.
- Silicone complying with ASTM C 1115.
- Thermoplastic polyolefin rubber complying with ASTM C 1115.
- Soft Compression Gaskets: Molded or extruded, closed-cell, integral-skinned neoprene or EPDM or silicone or thermoplastic polyolefin rubber gaskets complying with ASTM C 509, Type II, black, of profile and hardness required to maintain watertight seal.
- Glazing Sealant: Neutral curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT
- Back-bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solid elastomeric tape; non staining and non-migrating in contact with non-porous surfaces; with or without spacer rod as recommended by tape and glass manufacturers for application indicated.
- Miscellaneous Materials: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with proven record of compatibility with surfaces contacted in installation.
- Aluminum Extrusions: Alloy and temper recommended by aluminum window manufacturer for strength, corrosion resistance, and application of required finish, but not less than 150 MPa ultimate tensile strength, not less than 110 MPa minimum yield strength, and not less than 1.6mm thickness at any location.
- Fasteners: Aluminum nonmagnetic stainless steel, epoxy adhesive, or other materials warranted by manufacturers to be non-corrosive and compatible with aluminum members, trim, hardware, anchors, and other components.
- Reinforcements: Where fasteners anchor into aluminum less than 3.2mm thick, reinforce interior with aluminum or nonmagnetic stainless steel to receive screw threads. Or provide standard, non-corrosive, pressed-in, splined grommet nuts.
- Exposed Fasteners: Unless unavoidable for applying hardware, do not use exposed fasteners. For application of hardware, use fasteners that match finish of member or hardware being fastened, as appropriate.
- Compression-type Weather Stripping: Provide compressible weather stripping designed for permanently resilient sealing under bumper or wiper action and for complete concealment when aluminum window or door is closed.
- Hardware: Subject for Engineer's approval, provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel or other corrosion-resistant material compatible with aluminum, designed to smoothly operate, tightly close, and securely lock aluminum windows/door. Do not use aluminum in frictional contact with other metals. Where exposed, provide extruded, cast or wrought aluminum or nonmagnetic stainless steel.

**Execution:****Examination and Preparation:**

- Prior to installation of work under this section, carefully inspect the work of other trades and verify that all such work is complete to a point where this installation may commence.
- Verify that all glass and glazing works can be performed in accordance with applicable codes and contract documents.
- In the event of discrepancy or deficiency, immediately notify the Engineer.

**Installation and Workmanship:**

- All work under this section shall be installed in strict accordance with the manufacturer's instructions and recommendations.
- Fabricate aluminum frames in sizes indicated. Include a complete system for assembling components and anchoring windows.
- Fabricate aluminum windows with an integral, concealed, low-conductance thermal barrier, located between exterior materials and window members exposed on interior side in a manner that eliminates direct metal to metal contact.
- Fabricate glazing units in sizes required to fit openings indicated, with edge and face clearances, edge and surface conditions and bite complying with the written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
- Adjust glazing channel dimensions as required by site conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
- Apply primers to joint surfaces where required for adhesion of sealants, as determined by pre-construction testing.
- Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- Provide spacers for glass lites where length plus width exceeds 1270mm.
- Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended by glass manufacturer and according to requirements in referenced glazing publications.
- Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.



- Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
- Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- Apply heel bead of elastomeric sealant.
- Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- Apply cap bead of elastomeric sealant over exposed edge of tape.
- Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weather tight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weather tight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- Install gaskets so they protrude past face of glazing stops.
- Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove non-permanent labels and clean surfaces.
- Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.
- Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

- Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- Tool exposed surfaces of sealants to provide a substantial wash away from glass.

## **PAINTING AND REPAINTING WORKS**

### **1. Submittals**

- Material Lists
- Material Technical Data
- Manufacturer' Standard Color Chart
- Samples:
  - Two representative samples of each finish coat on 200mm x 200mm palettes.

### **2. Painting System**

- Concrete, Cement Plaster
 

Surface preparation:	Application of neutralizer and cleaning
Prime coat:	Flat latex, cementitious skim coat or cement paint putty
Topcoat:	Acrylic latex paint
Color and sheen:	Refer to approved sample
- Fiber Cement Substrates
 

Surface preparation:	Patching holes and other minor imperfections
Prime coat:	Flat latex, gypsum joint compound
Topcoat:	Acrylic latex paint
Color and sheen:	Refer to approved sample
- Structural Steel
 

Surface preparations:	SP-3 Power Tool Cleaning SP-6 Commercial Blast Cleaning
Prime coat:	Zinc Chromate/Epoxy Primer
Topcoat:	Epoxy paint or epoxy enamel

Color and sheen: Refer to approved sample

d. Metal Surfaces

Surface preparations: SP-3 Surface Preparation Standards

Prime coat: Red oxide metal primer

Topcoat: Alkyd based paint

Color and sheen: Refer to approved sample

e. Wood Surfaces

Surface preparations: Sanding, dusting and cleaning

Prime coat: Flatwall enamel, glazing putty

Topcoat: Alkyd based paint

Color and sheen: refer to approved sample

f. Repainting of Concrete and Cement Plaster

Surface preparations: Remove all loose and unsuitable paint and  
lightly sand smooth painted surfaces.

Prime coat: Flat latex, cementitious skim coat or cement paint  
putty

Topcoat: Acrylic latex paint

Color and sheen: Refer to approved sample.

g. Repainting/Revarnishing of Wood Surfaces

Surface preparations: Remove all loose and unsuitable paint/varnish to  
sound surface.

Prime coat: Sanding sealer

Topcoat: Clear gloss lacquer, lacquer flo

Color and sheen: Refer to approved sample

**3. Quality Control Verification Items:**

- a. Extent, classification, method, sequence of painting work.
- b. Type, property, specification, tone, color, luster in comparison with approved sample.
- c. Preparation of substrate and cleaning method.
- d. Applicability and condition of equipment.
- e. Weather at the time of painting.
- f. Number of coats and duration between coatings.
- g. Quality and condition of paint as to tone, color, luster, evenness, etc.

- h. Appearance of loose or any unsuitable paint and foreign materials.
- i. Protection from paint drops.

#### **4. Execution**

- a. Examine substrates and conditions, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- b. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
- c. Apply paints according to manufacturer's written instructions.
- d. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- e. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- f. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- g. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- h. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and re-finishing, as approved by Engineer, and leave in an undamaged condition.

#### **Technical Specifications of Switch Hub 16 ports PoE**

##### **Performance**

- 10KB L2 jumbo frames
- Wirespeed multicasting
- Up to 16K MAC addresses
- 256MB DDR SDRAM
- 2048 configurable VLANs
- 64MB flash memory
- Packet Buffer memory: 1.5MB

##### **Diagnostic tool**

- Active Fiber Monitoring detects tampering on optical links
- Built-In Self Test (BIST)
- Find-me device locator
- Cable fault locator (TDR)
- Optical Digital Diagnostics Monitoring (DDM)

- Automatic link flap detection and port shutdown
- Ping polling for IPv4 and IPv6
- Port and VLAN mirroring (RSPAN)
- TraceRoute for IPv4 and IPv6

#### **IP Features**

- IPv4 static routing and RIP
- Device management over IPv6 networks with SNMPv6, Telnetv6, SSHv6
- NTPv6 client
- IPv6 Ready certified

#### **Management**

- With Autonomous Management Framework™ Plus (AMF Plus) enables powerful centralized management and zero-touch device installation and recovery (Compatible to the existing PNU Vista Manager Application)
- Manage the with Vista Manager EX—our graphical single-pane-of-glass monitoring and management tool for AMF Plus networks, which also supports wireless and third party devices
- AMF Plus license operating in the network provides all standard AMF network management and automation features, and also enables the AMF Plus intent-based networking features menu in Vista Manager EX (from version 3.10.1 onwards)
- Console management port on the front panel for ease of access
- Eco-friendly mode allows ports and LEDs to be disabled to save power
- Industry-standard CLI with context-sensitive help
- Powerful CLI scripting engine
- Comprehensive SNMP MIB support for standards-based device management
- Built-in text editor
- Event-based triggers allow user-defined scripts to be executed upon selected system events
- SD/SDHC memory card socket allows software release files, configurations and other files to be stored for backup and distribution to other devices
- Configurable logs and triggers provide an audit trail of SD card insertion and removal

#### **Quality of Service (QoS)**

- Eight priority queues with a hierarchy of high priority queues for real-time traffic, and mixed scheduling, for each switch port
- Limit bandwidth per port or per traffic class down to 64kbps
- Wirespeed traffic classification with low latency essential for VoIP and real-time streaming media applications
- Policy-based QoS based on VLAN, port, MAC and general packet classifiers
- Policy-based storm protection
- Extensive remarking capabilities
- Taildrop for queue congestion control
- Strict priority, weighted round robin or mixed scheduling
- IP precedence and DiffServ marking based on Layer 2, 3 and 4 headers

#### **Resiliency Features**

- Control Plane Prioritization (CPP) ensures the CPU always has sufficient bandwidth to process network control traffic
- Dynamic link failover (host attach)
- EPSRing (Ethernet Protection Switched Rings) with enhanced recovery
- Loop protection: loop detection and thrash limiting



- Dynamic link failover (host attach)
- EPSRing (Ethernet Protection Switched Rings) with enhanced recovery
- Loop protection: loop detection and thrash limiting
- PVST+ compatibility mode
- STP root guard
- UniDirectional Link Detection (UDLD)

#### **Security Features**

- Access Control Lists (ACLs) based on Layer 2, 3 and 4 headers
- Dynamic ACLs assigned via port authentication
- ACL Groups enable multiple hosts/ports to be included in a single ACL, reducing configuration
- Configurable auth-fail and guest VLANs
- Authentication, Authorization, and Accounting (AAA)
- Bootloader can be password protected for device security
- BPDU protection
- BPDU protection & DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI)
- Dynamic VLAN assignment
- MAC address filtering and MAC address lock-down

#### **Additional Documents to be Submitted on Bid Opening:**

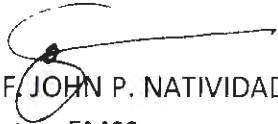
- The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category B with specialization/classification of Electrical Work
- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.
- Subcontracting is allowed subject to the compliance with the RA9184 requirements.

*Structural and Architectural Works*

Prepared by:

  
ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

Recommended by:

  
PROF. JOHN P. NATIVIDAD  
Director, FMSS

*Electrical Works*

Prepared by:

  
MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Project: REPAIR AND RENOVATION OF HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT SERVICES OFFICE  
GERONIMA PECSON HALL, GROUND FLOOR, AYALA WING

Subject: BILL OF QUANTITIES

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
1.0	Mobilization/demobilization	1.00	lot	30,000.00	30,000.00
2.0	Construction safety and health	1.00	lot	60,000.00	60,000.00
3.0	Temporary facilities	1.00	lot	30,000.00	30,000.00
	<b>Subtotal</b>				<b>120,000.00</b>
<b>II</b>	<b>CIVIL/STRUCTURAL WORKS</b>				
<b>1.00</b>	<b>Demolition and Earthworks</b>				
1.01	Demolition/Removal works	1.00	lot	53,120.00	53,120.00
1.02	Concrete cutting and breaking for foundations and plumbing works	1.00	lot	2,310.00	2,310.00
1.03	Excavation, backfilling and compaction	1.00	lot	4,500.00	4,500.00
1.04	Gravel bedding, 3/4 crushed	1.00	lot	1,000.00	1,000.00
1.05	Disposal of debris and site cleanup	1.00	lot	52,260.00	52,260.00
	<b>Subtotal</b>				<b>113,190.00</b>
<b>2.00</b>	<b>Reinforced Concrete and Masonry Works</b>				
2.01	Concrete Works, job-mix (1:2:3 by volume)	3.40	cu.m.	4,150.00	14,110.00
2.02	Rebar Works, gr.40	278.00	kgs	58.00	16,124.00
2.03	Formworks and falseworks	4.00	sq.m.	630.00	2,520.00
2.04	Self-leveling non-shrink grout @ 25kgs/bag	1.00	bag	935.00	935.00
2.05	Wall repair and plastering Works	62.80	sq.m.	110.00	6,908.00
2.06	Floor repair and leveling/topping works	64.90	sq.m.	170.00	11,033.00
2.07	Labor and equipment	1.00	lot	18,050.00	18,050.00
	<b>Subtotal</b>				<b>69,680.00</b>
<b>3.00</b>	<b>Structural Steel Works</b>				
3.01	Structural tubing, 75 x 75 x 6mm, 6.0m L (Submit Technical Data Sheet)	3.00	lgts	9,130.00	27,390.00
3.02	Light rectangular tubing, LR 100x50x2.0mm, 6.0m L	47.00	lgts	2,360.00	110,920.00
3.03	Structural steel section, 55 x 14.8, 6.0m L (Submit Technical Data Sheet)	3.00	lgts	9,015.00	27,045.00
3.04	Channel, C7 x 9.8, 6.0m L	3.00	lgts	5,985.00	17,955.00
3.05	Channel, C5 x 9.0, 6.0m L	1.00	lgt	5,495.00	5,495.00
3.06	Angle bars, L75 x 75 x 6.0mm, 6.0m L (Submit Technical Data Sheet)	2.00	lgts	2,640.00	5,280.00
3.07	Angle bars, L50 x 50 x 6.0mm, 6.0m L (Submit Technical Data Sheet)	12.00	lgts	1,720.00	20,640.00
3.08	Angle bars, L25 x 25 x 3.0mm, 6.0m L (Submit Technical Data Sheet)	3.00	lgts	440.00	1,320.00
3.09	Various steel plates	75.60	kgs	65.00	4,914.00
3.10	Epoxy primer	1.00	lot	13,240.00	13,240.00
	<b>Chemical anchors/bolts</b>				
3.11	Chemical bolts, M16 x 150mm, 5.8 carbon steel, hot-dip galvanized	12.00	pcs	280.00	3,360.00
3.12	Chemical bolts, M10 x 95mm, 5.8 carbon steel, hot-deep galvanized	50.00	pcs	90.00	4,500.00
3.13	Adhesive anchor	1.00	lot	6,600.00	6,600.00
	<b>Anchors and fasteners</b>				
3.14	Anchor bolts, Ø16 x 400mm x 50mm, L-type, A325	16.00	pcs	130.00	2,080.00
3.15	Anchor bolts, Ø12 x 300mm x 50mm, L-type, A325	4.00	pcs	55.00	220.00

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
3.16	Countersunk sleeve anchor, Ø12 x 75mm L	16.00	pcs	30.00	480.00
3.17	Miscellaneous and consumables	1.00	lot	12,450.00	12,450.00
3.18	Labor and equipment	1.00	lot	92,285.00	92,285.00
	<b>Subtotal</b>				<b>356,174.00</b>
<b>III</b>	<b>ARCHITECTURAL WORKS</b>				
<b>1.00</b>	<b>T304 stainless steel railings (Submit Technical Data Sheet)</b>				
1.01	Round tube, Ø50 x 2.0mm thk x 6.0m L,	7.00	lgts	4,670.00	32,690.00
1.02	Round tube, Ø30 x 1.5mm thk x 6.0m L,	15.00	lgts	2,150.00	32,250.00
1.03	Fittings, accessories, and consumables	1.00	lot	15,970.00	15,970.00
1.04	Labor and equipment	1.00	lot	24,280.00	24,280.00
	<b>Subtotal</b>				<b>105,190.00</b>
<b>2.00</b>	<b>Partitions Works (Submit Technical Data Sheet)</b>				
2.01	Light gauge metal framing; 75 x 0.6mm @ 0.40m	37.10	sq.m.	990.00	36,729.00
2.02	Light gauge metal framing; 75 x 0.8mm @ 0.30m	16.80	sq.m.	1,220.00	20,496.00
2.03	Fiber cement board, 6mm thk	91.80	sq.m.	388.00	35,618.40
2.04	Fiber cement board, 9mm thk	16.80	sq.m.	640.00	10,752.00
2.05	Rockwool insulation, 50mm x 60kg./cu.m.	16.80	sq.m.	1,600.00	26,880.00
2.06	Labor and equipment	1.00	lot	44,100.00	44,100.00
	<b>Subtotal</b>				<b>174,575.40</b>
<b>3.00</b>	<b>Ceiling Works</b>				
3.01	Flat ceiling: 4.5mm thk fiber cement board on light gage metal framing, complete with fiber cement joint epoxy	44.00	sq.m.	830.00	36,520.00
3.02	Ceiling with cove (Director's Office): 4.5mm thk fiber cement board, on light gage metal framing, complete with fiber cement joint epoxy	9.30	sq.m.	885.00	8,230.50
3.03	PVC mouldings and cornices, 100mm	83.50	l.m.	260.00	21,710.00
3.04	Labor and equipment	1.00	lot	21,890.00	21,890.00
	<b>Subtotal</b>				<b>88,350.50</b>
<b>4.00</b>	<b>Floor and Wall Finishes</b>				
4.01	Mezzanine flooring board, including stair treads and risers; 16mm thk fiber cement boards	55.10	sq.m.	1,150.00	63,365.00
4.02	Vinyl wood planks, 150 x 900 x 3.0mm thk	49.90	sq.m.	1,055.00	52,644.50
4.03	Stair nosing, 2"	15.60	l.m.	220.81	3,444.65
4.04	Vitrified floor tiles, 300 x 300mm, non-skid	3.20	sq.m.	860.00	2,752.00
4.05	Wall tiles on masonry walls, 300 x 300mm	14.64	sq.m.	860.00	12,590.40
4.06	Wall tiles on fiber cement backer boards, 300 x 300mm	18.60	sq.m.	940.00	17,484.00
4.07	Narra wood parquet, 12mm thk	73.60	sq.m.	1,650.00	121,440.00
4.08	Baseboards, 100mm	50.70	l.m.	150.00	7,605.00
4.09	Labor and equipment	1.00	lot	92,840.00	92,840.00
	<b>Subtotal</b>				<b>374,165.55</b>
<b>5.00</b>	<b>Carpentry Works: Wooden Doors and Windows</b>				
5.01	<b>D1:</b> Toilet doors: Laminated marine plywood flush doors, complete with wood louvers and heavy-duty automatic door closers, 700 x 2100mm, swing	1.00	sets	11,500.00	11,500.00
5.02	<b>D2:</b> Stair door: Laminated marine plywood flush doors, 900 x 2100mm, 2-leaf swing	1.00	set	15,500.00	15,500.00
5.03	<b>W1:</b> Repair/Restoration/Refurbishment of existing capiz windows, including frames, 1300 x 2400	7.00	sets	4,300.00	30,100.00
5.04	<b>W2:</b> Repair/Restoration/Refurbishment of existing capiz windows, including frames, 2200 x 2400	5.00	sets	7,260.00	36,300.00



Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
5.05	Labor and equipment	1.00	lot	15,350.00	15,350.00
	<b>Subtotal</b>				<b>108,750.00</b>
<b>6.00</b>	<b>Glass Works</b>				
6.01	Glass wall: 6.0mm thk tempered brown glass in anolok aluminum frame, 3000 x 2150mm	1.00	set	44,800.00	44,800.00
6.02	Glass door : 6.0mm thk tempered brown glass in anolok aluminum frame, 1800 x 2150mm, 2-leaf 1 fixed/1 sliding	1.00	set	35,500.00	35,500.00
6.03	Glass door : 6.0mm thk tempered brown glass in anolok aluminum frame, 1600 x 2150mm, 2-leaf sliding	2.00	sets	31,730.00	63,460.00
6.04	Glass door : 6.0mm thk tempered brown glass in anolok aluminum frame, 800 x 2150mm, 1-leaf swing in/swing out	1.00	set	18,670.00	18,670.00
6.05	Fixed glass windows: 6.0mm thk tempered glass in anolok aluminum frame, 2700 x 1250, 4-leaf	12.00	sets	20,250.00	243,000.00
6.06	Fixed glass windows: 6.0mm thk tempered glass in anolok aluminum frame, 2200 x 1250, 3-leaf	1.00	set	16,875.00	16,875.00
6.07	Labor and equipment	1.00	lot	28,000.00	28,000.00
	<b>Subtotal</b>				<b>450,305.00</b>
<b>7.00</b>	<b>Painting/Repainting Works</b>				
7.01	Gloss/semi-gloss on concrete/masonry walls, columns, and beams	142.20	sq.m.	220.00	31,284.00
7.02	Gloss/semi-gloss on drywalls	83.60	sq.m.	220.00	18,392.00
7.03	Semi-gloss/Flat latex on exposed slab soffit and ceiling	109.90	sq.m.	220.00	24,178.00
7.04	Quick-drying enamel on wood and metal surfaces	1.00	lot	10,000.00	10,000.00
7.05	Repainting/Re-varnishing of capiz window frames	34.60	sq.m.	250.00	8,650.00
7.06	Labor and equipment	1.00	lot	64,910.00	64,910.00
	<b>Subtotal</b>				<b>157,414.00</b>
<b>8.00</b>	<b>Other Works</b>				
8.01	VPFA Office Wall and Door: Supply and installation of WPC fluted cladding, 17mm thk, wood grain finish	1.00	lot	32,570.00	32,570.00
8.02	Faculty Center doors: Replacement and fixing of mortise locks (similar to existing), heavy-duty	5.00	sets	2,556.00	12,780.00
8.03	Faculty Center glass doors: Repair/Replacement of floor hinge door closers, heavy-duty	2.00	sets	7,056.00	14,112.00
8.04	Faculty Center glass doors: Repair/Replacement of magnetic contact lock	2.00	sets	6,000.00	12,000.00
8.05	Budget and Resource Planning Unit glass door: Repair of misaligned 2-leaf door	1.00	lot	2,400.00	2,400.00
8.06	Accounting Unit main glass door: Repair wobbly left door; replacement of torn frame and other missing materials	1.00	lot	4,200.00	4,200.00
8.07	Office of the University Registrar glass door: Repair of misaligned and hard to open/close 2-leaf door	1.00	lot	3,600.00	3,600.00
8.08	Office of the Admissions glass door: Repair and/or replacement of parts of misaligned and hard to open/close 2-leaf door	1.00	lot	4,800.00	4,800.00
8.09	Medical and Dental Clinic glass door: Replacement of floor hinge door closers, heavy-duty	2.00	sets	7,056.00	14,112.00
	<b>Subtotal</b>				<b>100,574.00</b>
<b>IV</b>	<b>PLUMBING WORKS</b>				
<b>1.00</b>	<b>Piping Replacement Works</b>				

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
1.01	Cold water line, including valves, fittings, and accessories (use PPR PN20) complete with supply of Plastic Tube Welding Tool Fusion Machine 1500W	1.00	lot	20,000.00	20,000.00
1.02	Sanitary Line, uPVC Series 1000	1.00	lot	7,500.00	7,500.00
<b>2.00</b>	<b>Plumbing Fixtures and Toilet Accessories</b>				
2.01	Water closet; elongated, comfort height, water saving dual flush, compl. with bidet and plumbing accessories, stain-resistant high gloss finish	1.00	set	25,000.00	25,000.00
2.02	Lavatory, semi-pedestal type, complete with heavy-duty s/s faucet and plumbing accessories, stain-resistant high gloss finish	1.00	set	15,000.00	15,000.00
2.03	S/s wall faucet	1.00	set	600.00	600.00
2.04	Floor drain strainer, 4" x 4", s/s or s/b finish	1.00	set	560.00	560.00
2.05	Clean-out cover plate, s/s or s/b finish	1.00	set	680.00	680.00
2.06	Toilet paper holder	1.00	set	600.00	600.00
2.07	Soap dispenser	1.00	set	1,500.00	1,500.00
2.08	Mirror, 500W x 600H	1.00	set	1,000.00	1,000.00
2.09	Labor and equipment	1.00	lot	12,550.00	12,550.00
	<b>Subtotal</b>				<b>84,990.00</b>
<b>V</b>	<b>ELECTRICAL WORKS</b>				
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	32 mm Φ IMC pipe (Submit Technical Data Sheet)	9.00	pcs	2,150.00	19,350.00
1.02	25 mm Φ PVC pipe (Submit Technical Data Sheet)	12.00	pcs	210.00	2,520.00
1.03	20 mm Φ PVC pipe (Submit Technical Data Sheet)	150.00	pcs	141.00	21,150.00
1.04	20 mm Φ Flexible Metallic Tubing	60.00	lm	125.00	7,500.00
1.05	4" x 4" Octagonal Junction box (metal) ga.16	75.00	pcs	57.00	4,275.00
1.06	2" x 4" Utility box (metal) ga.16	45.00	pcs	45.00	2,025.00
1.07	Square box ga. 16	6.00	pcs	86.00	516.00
1.08	32 mm Φ IMC Locknut/ bushing	8.00	pcs	186.00	1,488.00
1.09	25 mm Φ PVC male adaptor w/ locknut	12.00	pcs	32.00	384.00
1.1	20 mm ΦPVC male adaptor w/ locknut	280.00	pcs	25.00	7,000.00
1.11	25 mm Φ Two Hole EMT Clamp	20.00	pcs	24.00	480.00
1.12	20 mm Φ Two Hole EMT Clamp	30.00	pcs	19.50	585.00
1.13	Unistrut channel 2M	6.00	pcs	2,785.00	16,710.00
1.14	Strut channel Clamp 32mm	30.00	pcs	79.00	2,370.00
1.15	Strut channel Clamp 25mm	20.00	pcs	68.00	1,360.00
1.16	Strut channel Clamp 20mm	50.00	pcs	58.00	2,900.00
1.17	Full threaded Rod 3/8 x 3M	6.00	lgt	1,780.00	10,680.00
1.18	Nuts and washers 3/8	1.00	lot	3,000.00	3,000.00
1.19	Grip Anchor 3/8	2.00	box	885.00	1,770.00
1.2	Labor and equipment	1.00	lot	37,122.05	37,122.05
<b>2.0</b>	<b>Wires and Cable (Submit Technical Data Sheet)</b>				
2.01	3.5 sqmm THHN Stranded Wire 150m/box	12.00	box	5,250.00	63,000.00
2.02	5.5sqmm THHN Stranded Wire 150m/box	3.00	box	8,770.00	26,310.00
2.03	8.0 sqmm THHN Stranded Wire 100m/box Green	35.00	lm	78.00	2,730.00
2.04	22.0 sqmm THHN Stranded Wire	100.00	lm	298.00	29,800.00
2.05	Labor and equipment	1.00	lot	42,644.00	42,644.00
<b>3.0</b>	<b>Wiring Devices (Submit Technical Data Sheet)</b>				
3.01	Two-Gang Single Switch Wide Series	1.00	set	284.00	284.00
3.02	Three-Gang Single Switch Wide Series	4.00	set	332.00	1,328.00
3.03	Three-Gang Three Way Switch Wide Series	2.00	set	482.00	964.00
3.04	Duplex Convenience Outlet Wide Series	31.00	set	430.00	13,330.00
3.05	GFCI Outlet	1.00	set	2,500.00	2,500.00
3.06	Labor and equipment	1.00	lot	6,442.10	6,442.10
<b>4.0</b>	<b>Panels and Boxes (Submit Technical Data Sheet)</b>				

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
4.01	Power Panel 1 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	94,325.00	94,325.00
	Main:80AT,3P, 240 Volts, 60Hz,100 AF, 15 KAIC MCB				
	Branches:				
	3-30AT 2P, 11-20AT 2P, 240 Volts, 10 KAIC 60 Hz,MCB				
4.02	Nema 3R Safety Switch - ACU				
	30AT,2P, 240 Volts, 60Hz,10 KAIC, MCB, in NEMA 3R Enclosure	3.00	assy	2,650.00	7,950.00
	20AT, 2P, 240 Volts, 60Hz,10 KAIC, MCB in NEMA 3R Enclosure	2.00	assy	2,650.00	5,300.00
4.03	Pull Boxes				
	12 x 12 x 6 pull box powder coated	2.00	pcs	1,850.00	3,700.00
4.06	Labor and equipment	1.00	lot	38,946.25	38,946.25
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (Submit Technical Data Sheet)</b>				
5.01	9Watts LED Slim Type Recessed Downlight (DL)SPARE	20.00	set	935.00	18,700.00
5.02	2-18 Tubular LED in Recessed Troffer Type Fixture (SPARE)	2.00	set	2,520.00	5,040.00
5.03	1-18 Tubular LED in Recessed Troffer Type Fixture (SPARE)	3.00	set	2,050.00	6,150.00
5.04	9Watts LED Slim Type Recessed Downlight (DL)	54.00	set	935.00	50,490.00
5.05	2-18 Tubular LED in Recessed Troffer Type Fixture	3.00	set	2,520.00	7,560.00
5.06	1-18 Tubular LED in Recessed Troffer Type Fixture	5.00	set	2,050.00	10,250.00
5.07	LED Cove Lights /Strip Lights 12 volts Warm White /Ip65	30.00	lm	300.00	9,000.00
5.08	200Watts LED Strip Lights Driver	2.00	set	1,350.00	2,700.00
5.09	LED Emergency Light Dual Optics 2x 1 Watts	7.00	pcs	2,000.00	14,000.00
5.1	Exhaust Fan Wall Mounted 12"	1.00	pcs	1,950.00	1,950.00
5.12	Automatic Hand Dryer Heavy Duty 220 Volts	1.00	set	4,299.75	4,299.75
5.13	Labor and equipment	1.00	lot	33,582.50	33,582.50
<b>6.0</b>	<b>ACCU/FCU (Submit Technical Data Sheet)</b>				
6.01	1.5 HP Wall Mounted Inverter Type AC (submit technical data sheet)	3.00	units	65,000.00	195,000.00
	Supply and Installation of all standard accessories, labor and materials, electrical refrigerant piping insulation and drain materials				
	Testing and Commissioning				
6.02	1.0 HP Wall Mounted Inverter Type AC (submit technical data sheet)	2.00	units	54,000.00	108,000.00
	Supply and Installation of all standard accessories, labor and materials, electrical refrigerant piping insulation and drain materials				
	Testing and Commissioning				
<b>7.0</b>	<b>Miscellaneous</b>				
7.01	Electrical Tape	15.00	pcs	65.00	975.00
7.02	G.I. pull wire	5.00	kgs	75.00	375.00
7.03	butane gas	2.00	pcs	120.00	240.00
7.04	torch head	1.00	pcs	750.00	750.00
7.05	hacksaw blade	1.00	pcs	115.00	115.00
7.06	1" Black Screw	3.00	box	250.00	750.00
7.07	# 6 Plastic Tox	3.00	box	150.00	450.00
7.08	Drill Bit	2.00	pcs	150.00	300.00
7.09	4" Concrete Cutting Disc	1.00	pcs	750.00	750.00
7.1	Consumables	1.00	lot	3,500.00	3,500.00
7.11	Labor and equipment	1.00	lot	2,871.75	2,871.75
<b>8.0</b>	<b>Testing and Commissioning</b>				
8.01	Testing and Commissioning	1.00	lot	30,000.00	30,000.00
	<b>Subtotal (Electrical Works)</b>				<b>990,537.40</b>
<b>9</b>	<b>IT</b>				
9.01	20 mm Ø PVC pipe	50.00	pcs	141.00	7,050.00
9.02	PVC Junction Box with Cover	10.00	pcs	57.00	570.00

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
9.03	PVC Utility Box	9.00	pcs	45.00	405.00
9.04	CAT6 UTP Cable (submit technical data sheet)	2.00	box	11,500.00	23,000.00
9.05	Single Port Data Outlet	6.00	set	750.00	4,500.00
9.06	Single Port Telephone Outlet	3.00	set	450.00	1,350.00
9.08	CAT6 24-Port Patch Panel (submit technical data sheet)	1.00	units	24,000.00	24,000.00
9.09	2 x 2x2 ft Data Cabinet (compatible to the switch hub)	1.00	units	24,000.00	24,000.00
9.1	Switch Hubs, 16 Ports PoE (submit technical data sheet)	1.00	units	84,000.00	84,000.00
9.11	Testing and Documentation	1.00	lot	24,000.00	24,000.00
9.12	Engineering Cost	1.00	lot	30,000.00	30,000.00
9.13	Labor and equipment	1.00	lot	78,006.25	78,006.25
	<b>Subtotal (IT Works)</b>				<b>300,881.25</b>
	<b>TOTAL DIRECT COST</b>				<b>3,594,777.10</b>
	<b>INDIRECT COST</b>				
	OCM				521,216.56
	Contractor's profit				347,477.71
	VAT				535,616.56
	<b>TOTAL COST</b>				<b>4,999,087.94</b>

Structural and Architectural Works  
Prepared by:

**ALFREDO G. ALARCON, JR.**  
Civil Engineer, FMSS

Electrical, Mechanical, and IT Works  
Prepared by:

**MARK ANTHONY AMUL**  
Electrical Engineer, FMSS

Recommended by:

**PROF. JOHN P. NATIVIDAD**  
Director, FMSS

# **DETAILED UNIT PRICE ANALYSIS (DUPA)**

**NAME OF PROJECT:**  
**LOCATION:**

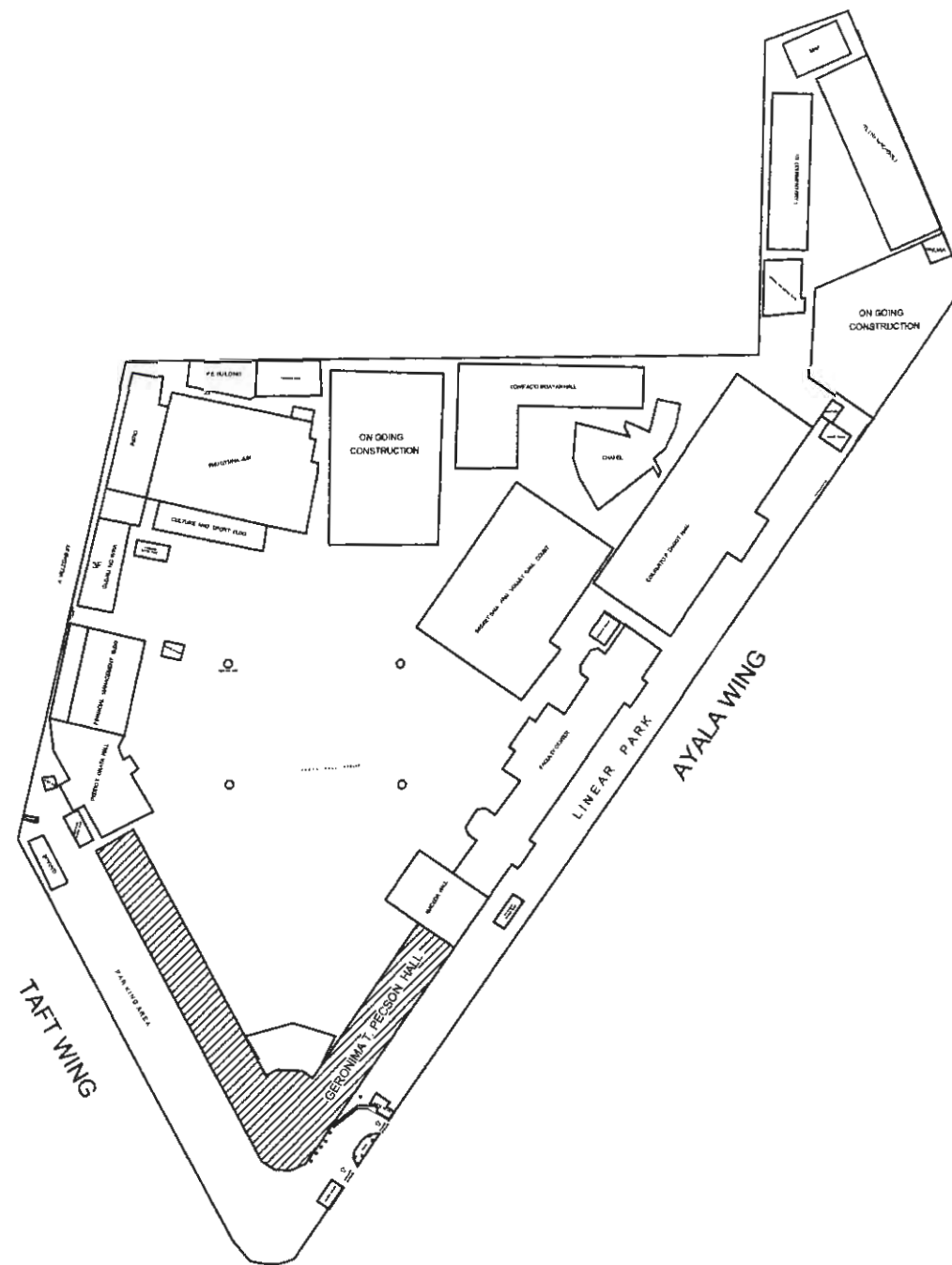
Item No. / Description  
Unit of Measurement  
Output per hour

	<b>Designation</b>	<b>No. of Person</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount</b>
A.	Labor				
	Sub-Total for A				
	<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Rental Rate</b>	<b>Amount</b>
B.	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
	<b>Name and Specifications</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount</b>
F.	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				5% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

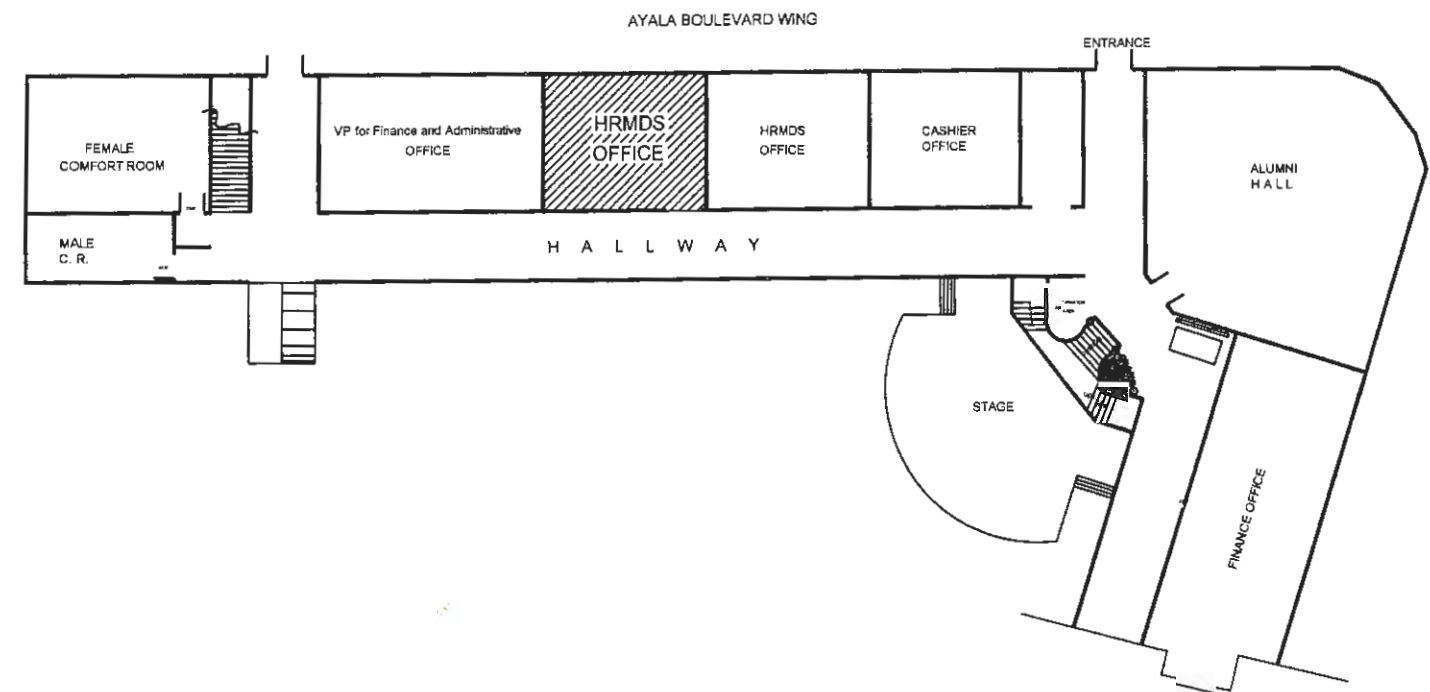
Prepared / Submitted by:

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Signature Over Printed Name  
Company










LOCATION PLAN  
SCALE NTS.

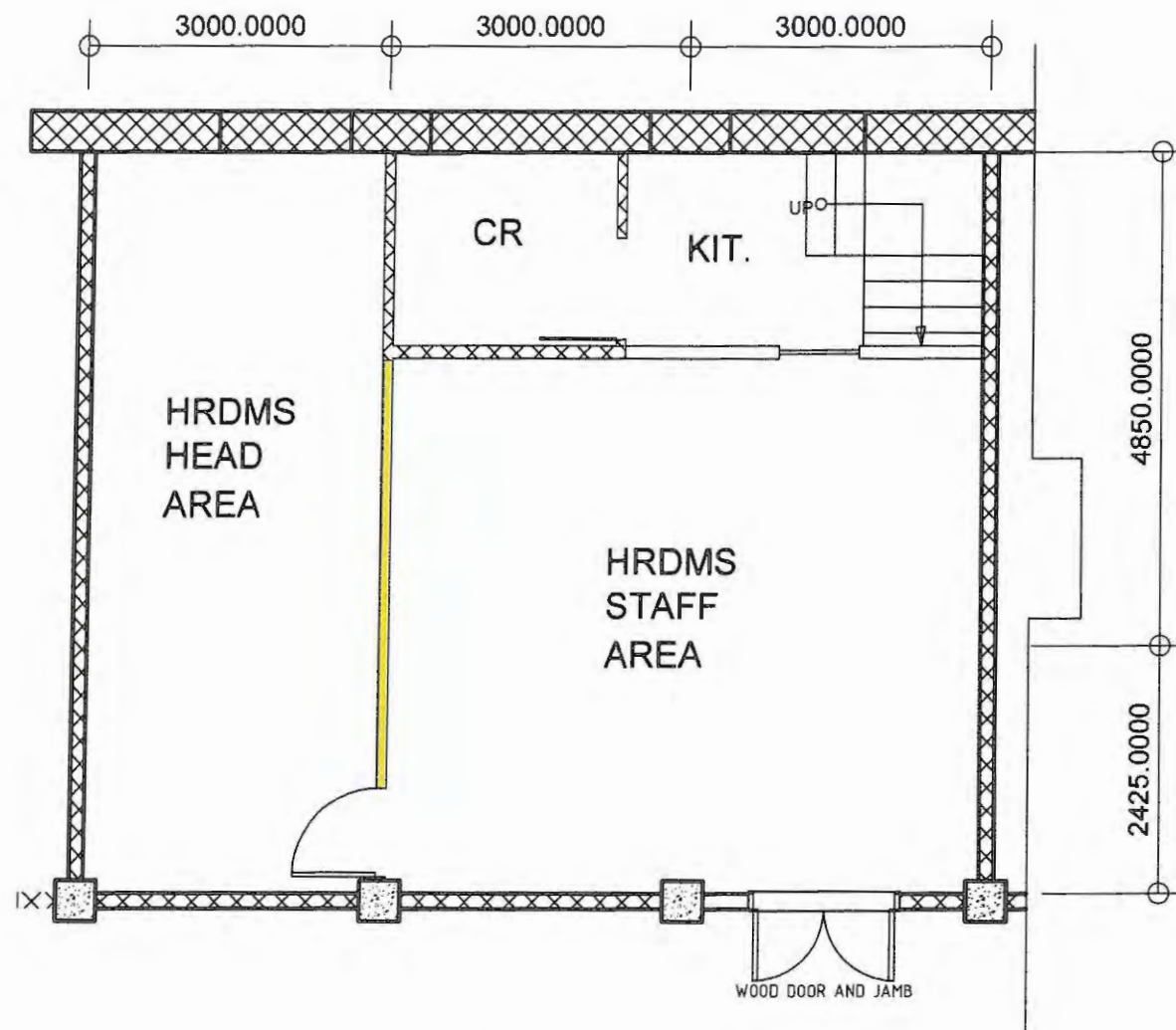


KEY PLAN  
SCALE NTS.

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 <b>Philippine Normal University</b> <small>11, KATIPUN AVENUE, MANILA</small>	REPAIR & RENOVATION OF HUMAN RESOURCES MANAGEMENT & DEVELOPMENT SERVICES (HRMDS) OFFICE	 <b>ALFREDO S. ALARCON JR.</b> <small>CIVIL ENGINEER</small>	 <b>JOHN P. NATIVIDAD</b> <small>DIRECTOR, FMSS</small>	<b>MARIBEL A. GERUNDIO</b> <small>DIRECTOR, HRMDS</small>	 <b>JOSE M. OCAMPO, Ph.D.</b> <small>VP FOR FINANCE AND ADMINISTRATION</small>	 <b>BERT J. TUGA, Ph.D.</b> <small>PHIL. NORMAL UNIVERSITY, PRESIDENT</small>	KEY PLAN LOCATION PLAN	CAD BY: <b>RYS</b> DESIGN: <b>AGA</b> CHECKED BY:	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;">A 1</div> </div>
		PTR. NO. 0846420 PRC REG. NO. 0059405							

NOTE:

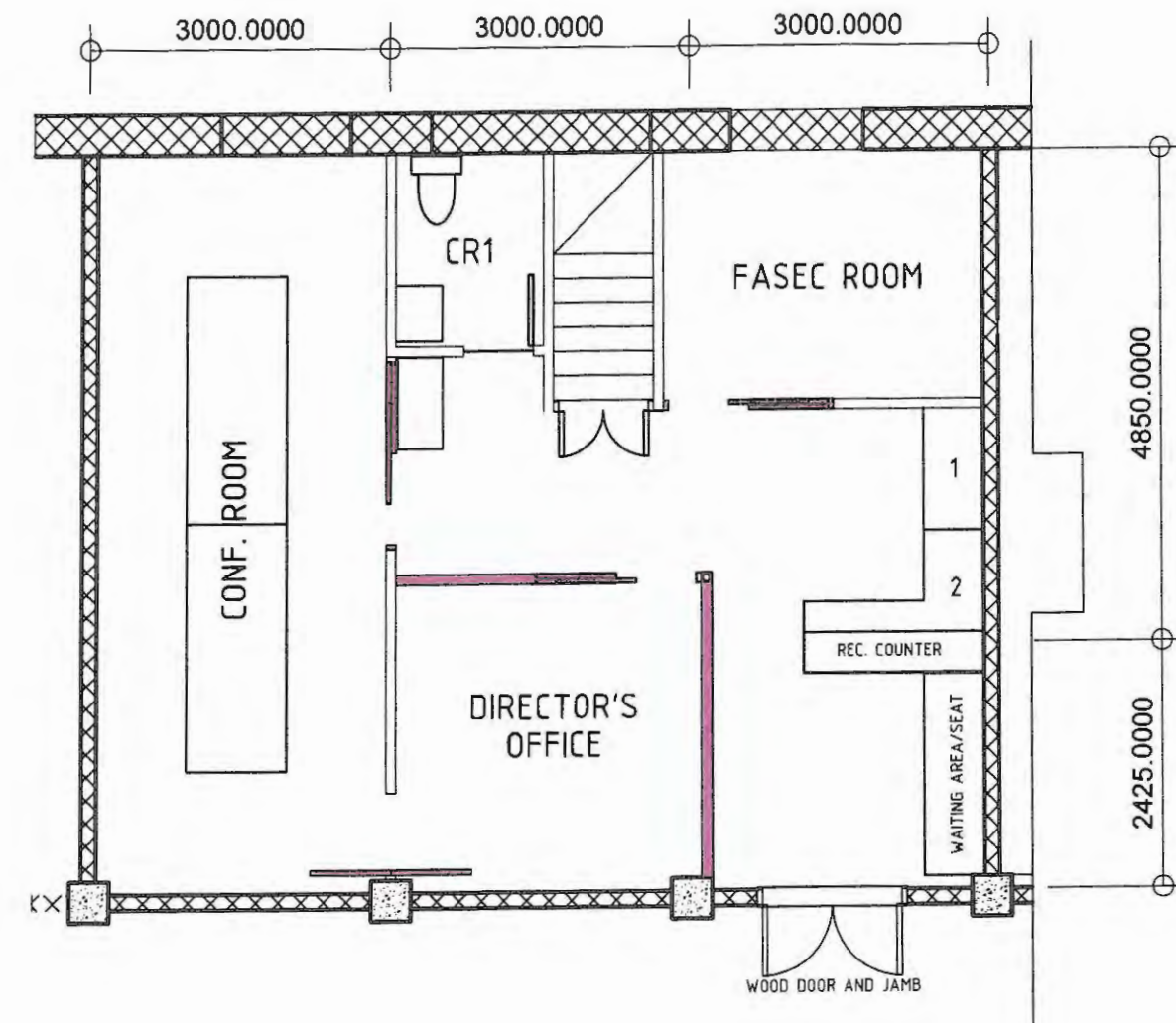
-  EXISTING (CONCRETE/MASONRY)
-  EXISTING DRY WALL AND GLASS PARTITION
-  FIBER CEMENT WALL
-  EXISTING WOOD DOOR AND JAMB
-  GLASS WALL AND DOOR



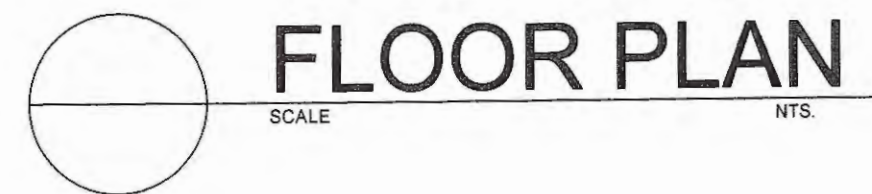
EXISTING GROUND FLOOR




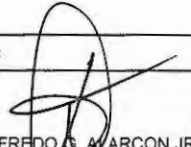

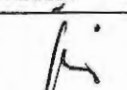

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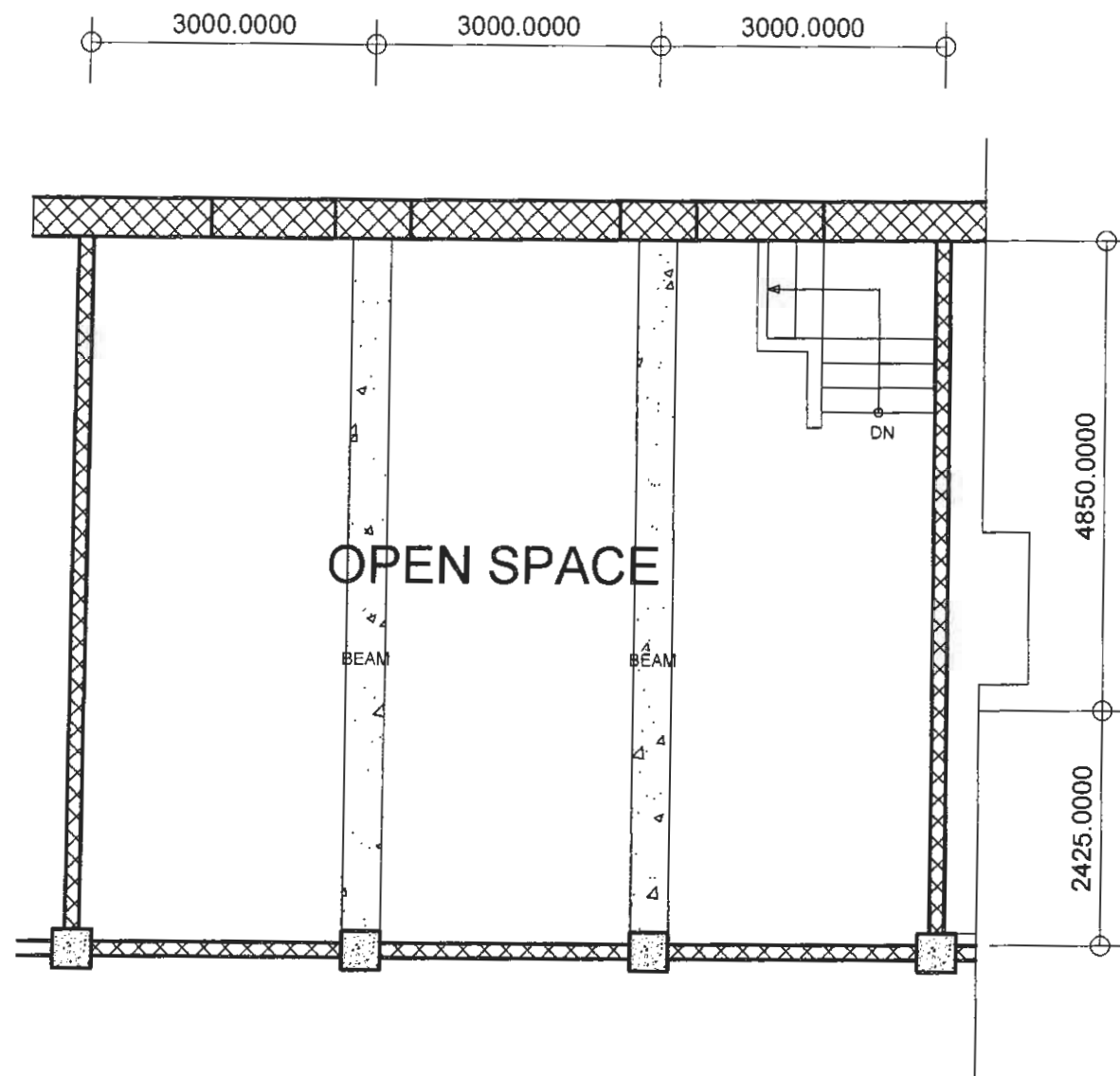


PROPOSED GROUND FLOOR

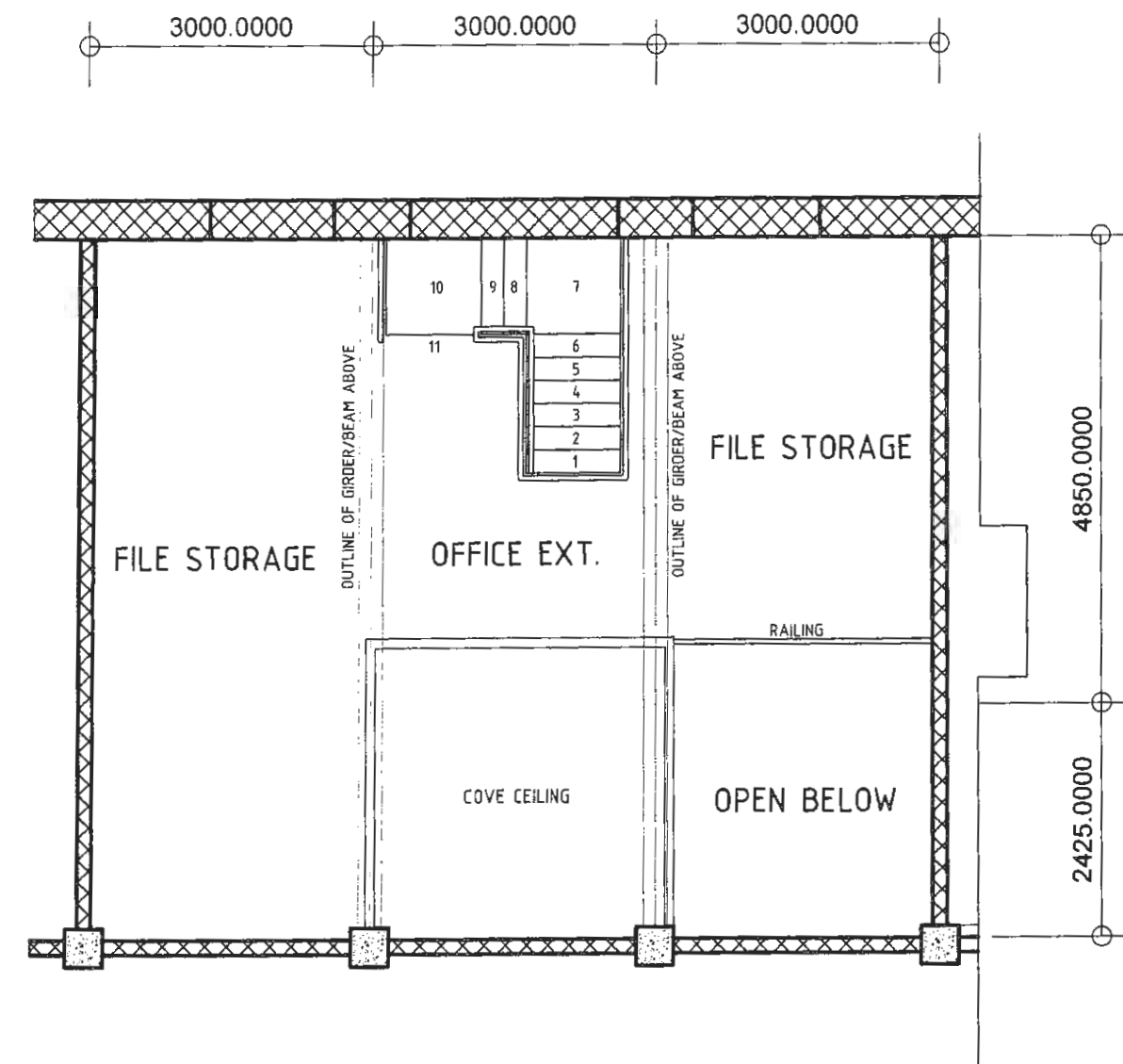


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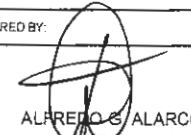
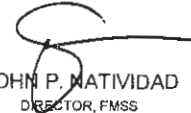
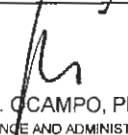
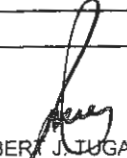

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 Philippine Normal University TAFI AVENUE, MANILA	REPAIR & RENOVATION OF HUMAN RESOURCES MANAGEMENT & DEVELOPMENT SERVICES (HRMDS) OFFICE	 ALFREDO S. ALARCON JR. CIVIL ENGINEER PTR NO. 0846420 PRC REG. NO. 0059405	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRMDS	 JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. YUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	EXISTING FLOOR PLAN PROPOSED FLOOR PLAN	DESIGN:	AGA	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">A 2</div>
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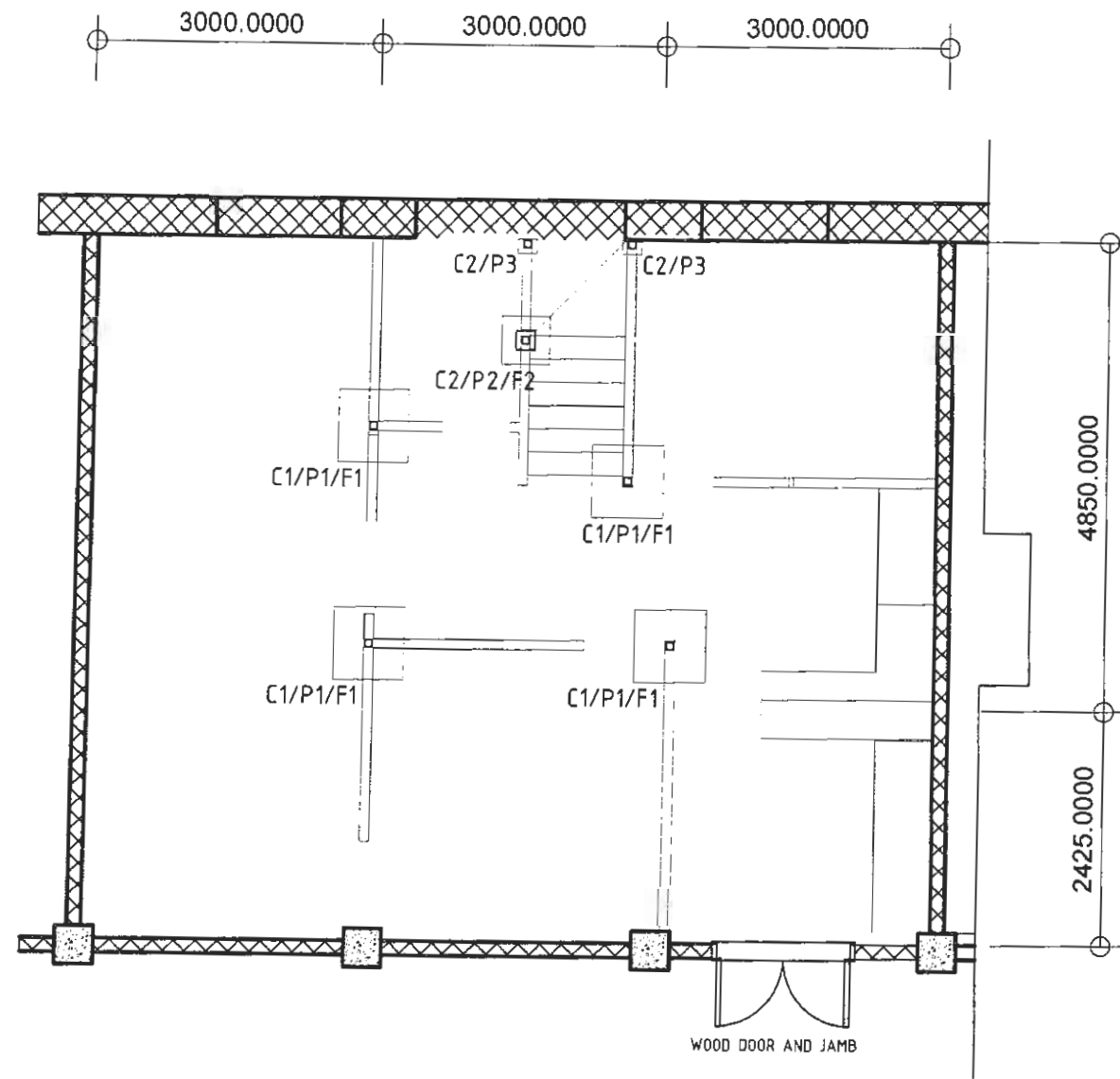
EXISTING MEZZANINE  
**FLOOR PLAN**  
SCALE NTS.



PROPOSED MEZZANINE  
**FLOOR PLAN**  
SCALE NTS.

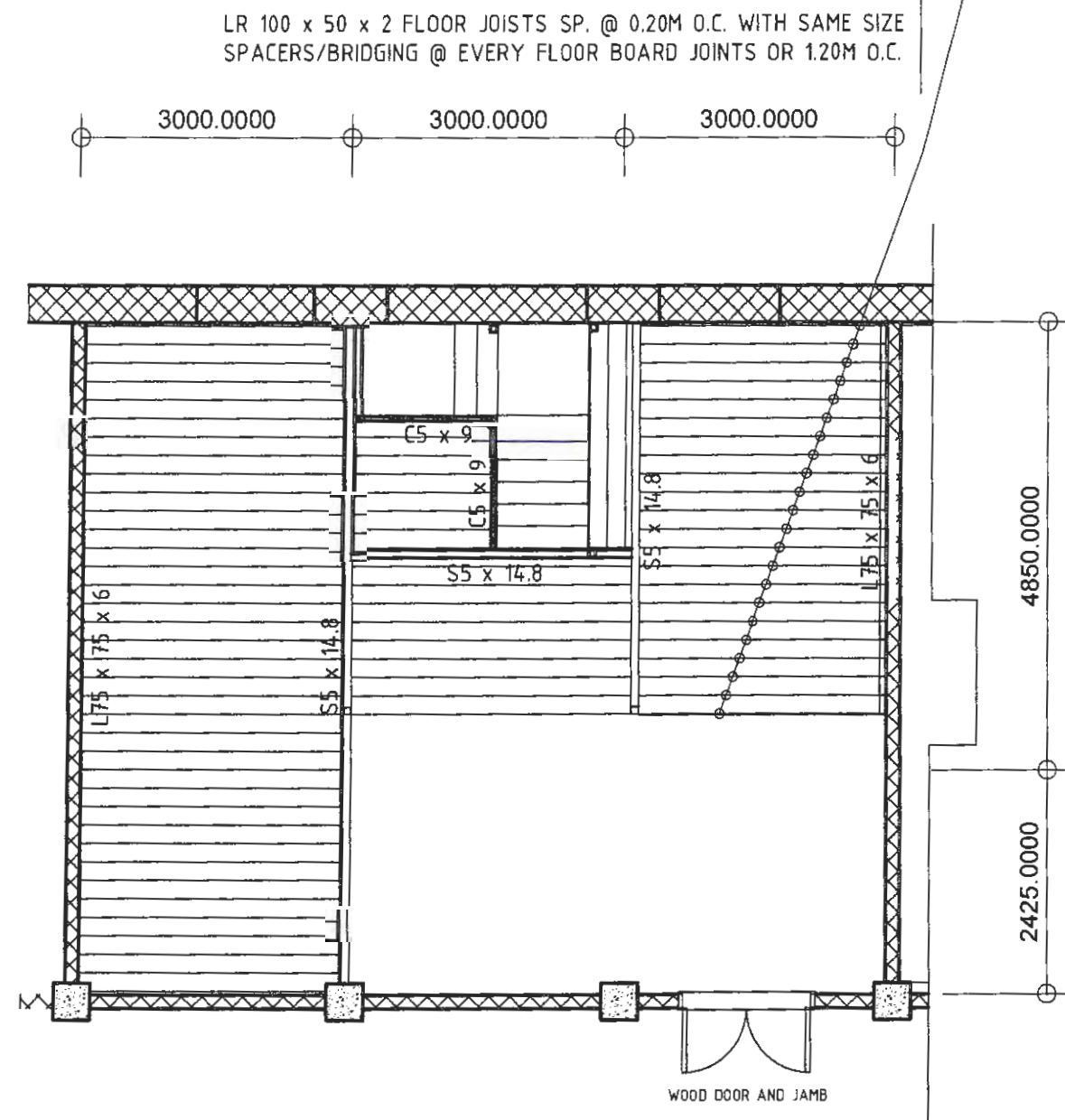
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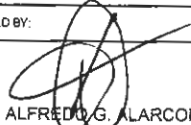

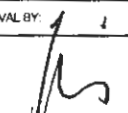

FOUNDATION PLAN

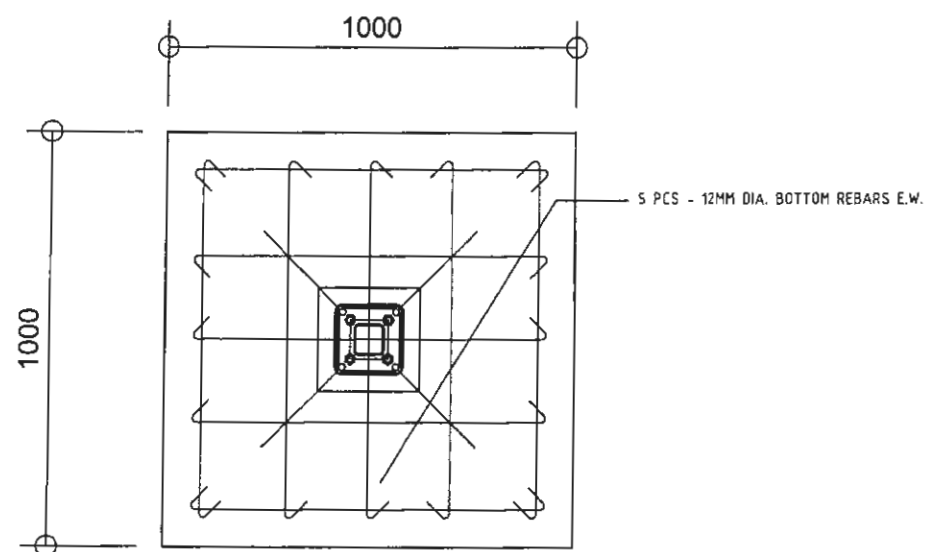
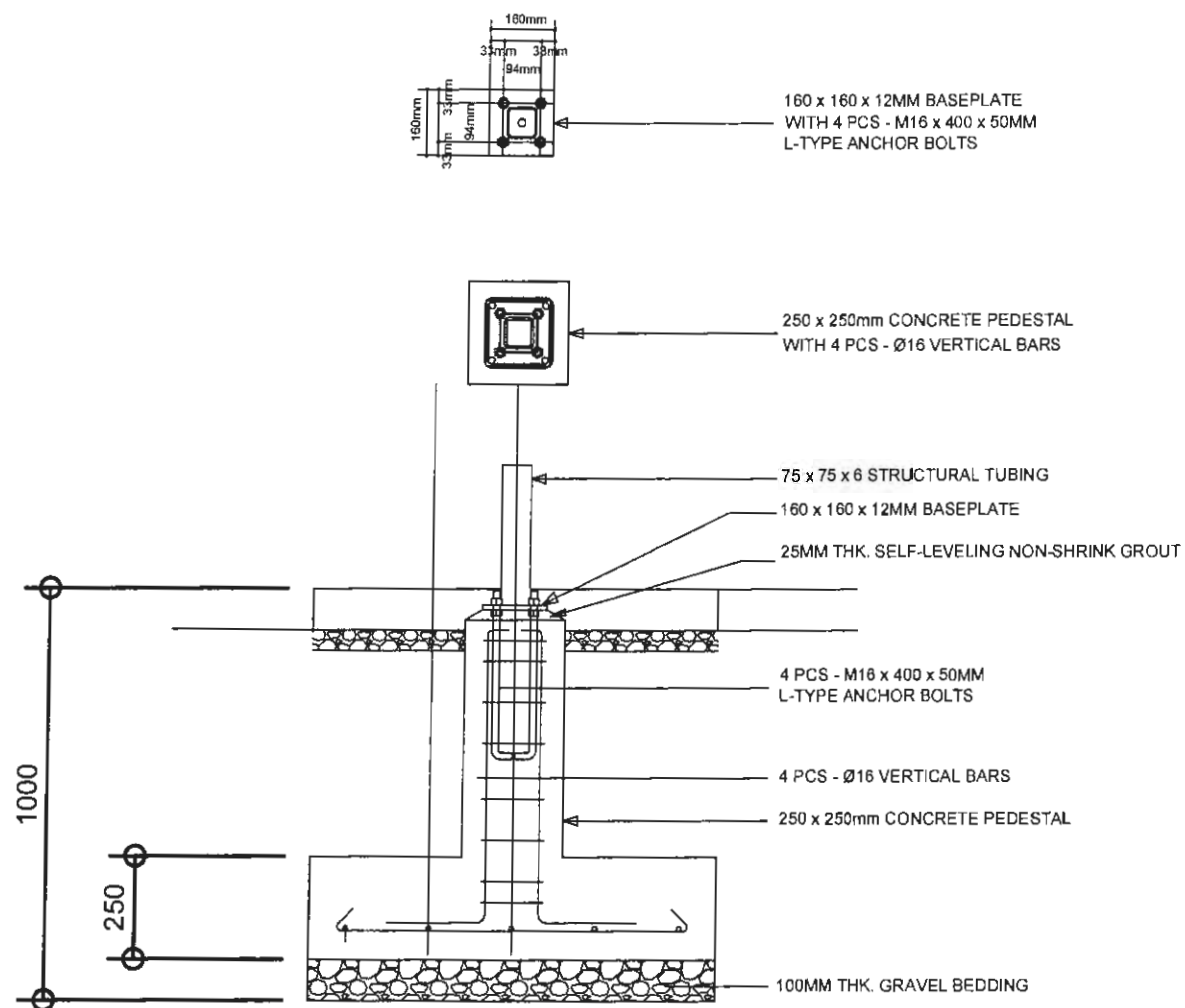
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MEZZANINE FLOOR FRAMING PLAN

SCALE NTS.

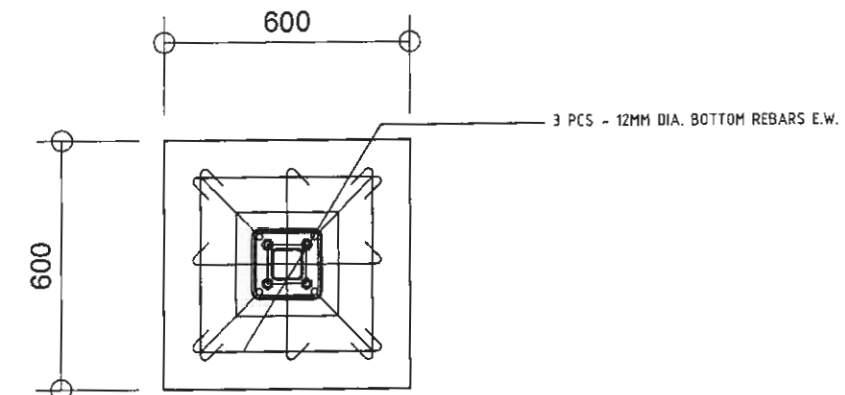
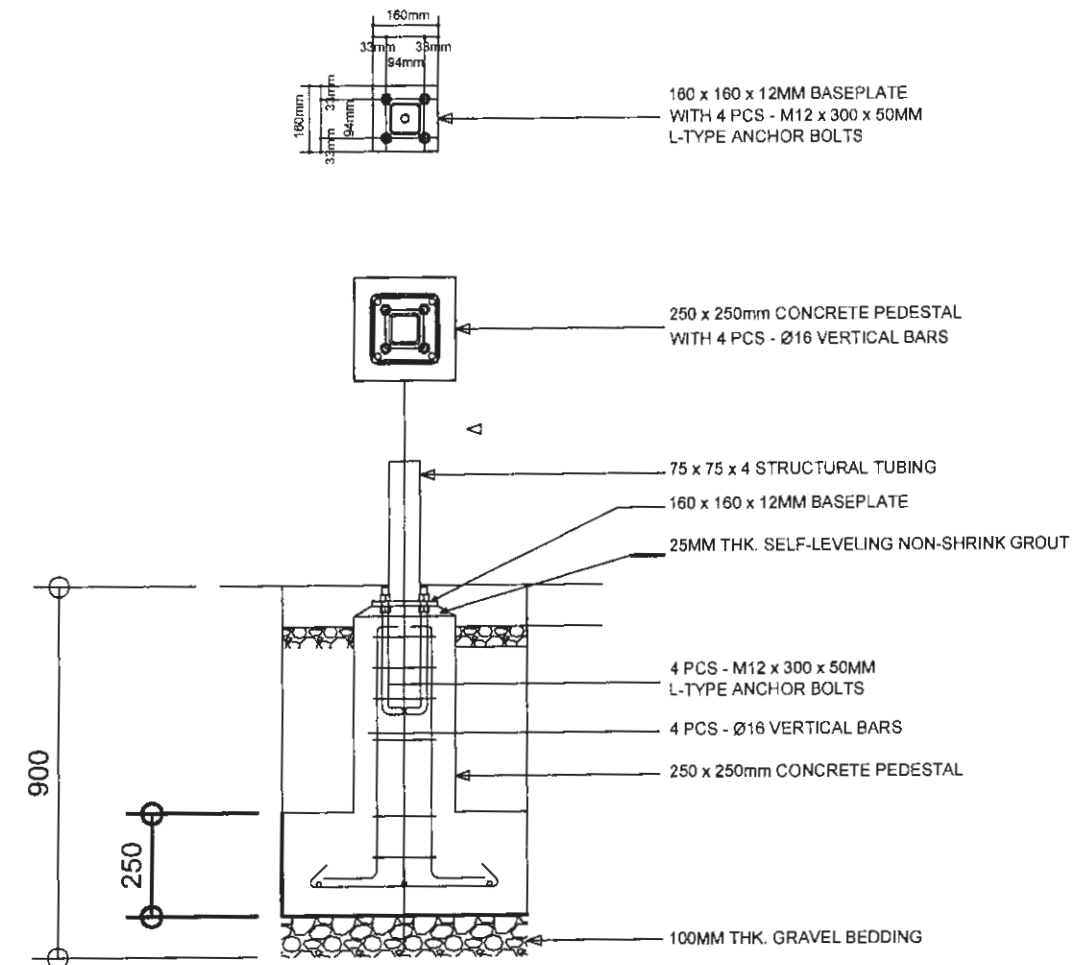
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 Philippine Normal University 171 AVENUE MANILA	REPAIR & RENOVATION OF HUMAN RESOURCES MANAGEMENT & DEVELOPMENT SERVICES (HRMDS) OFFICE	 ALFREDO G. ALARCON JR. CIVIL ENGINEER	 JOHN P. MATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRMDS	 JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERNITA J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	FOUNDATION PLAN MEZZANINE FLOOR FRAMING PLAN	RYS	S 1
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**DETAIL OF C1\P1\F1**

SCALE


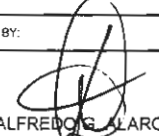


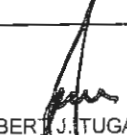
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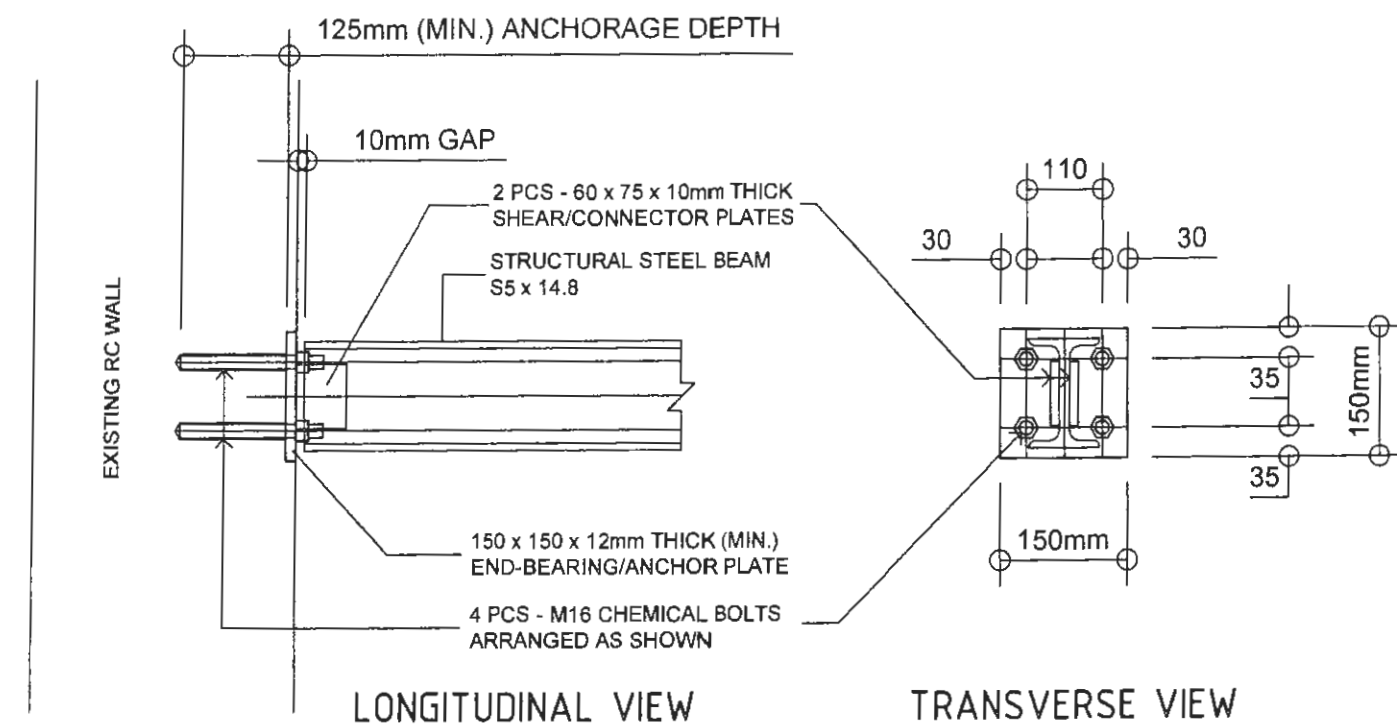
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SCALE

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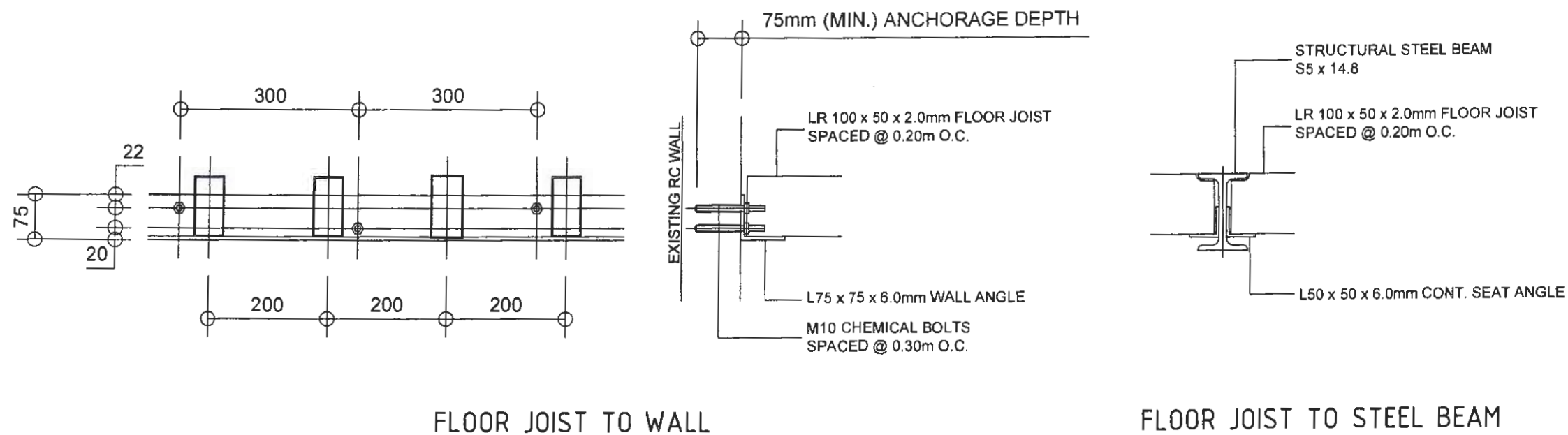
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 Philippine Normal University TAFI AVENUE, MANILA	REPAIR & RENOVATION OF HUMAN RESOURCES MANAGEMENT & DEVELOPMENT SERVICES (HRMDS) OFFICE	 ALFREDO C. LARCON JR. CIVIL ENGINEER	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRMDS	 JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	DETAIL OF C1,P1,F1 DETAIL OF C2,P2,F2	DESIGN:	AGA	S 2
		PTR NO. 0846420 PRC REG. NO. 0059405						CHECKED BY:		






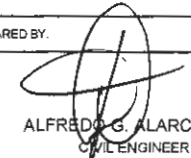


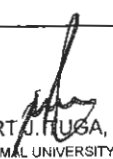

**BEAM TO WALL CONNECTION DETAIL**

SCALE NTS.



**FLOOR JOIST CONNECTION DETAIL**

SCALE NTS.

OWNER:	NAME OF PROJECT:	PREPARED BY:	SUBMITTED BY:	CONFORME:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	CAD BY:	RYS	SHT. NO.:
 Philippine Normal University TAYT AVENUE, MANILA	REPAIR & RENOVATION OF HUMAN RESOURCES MANAGEMENT & DEVELOPMENT SERVICES (HRMDS) OFFICE	 ALFREDO G. ALARCON JR. CIVIL ENGINEER	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRMDS	 JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. FUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	BEAM TO WALL & FLOOR JOIST DETAIL CONNECTION	DESIGN:	AGA	
		PTR NO. 0846420 PRC REG. NO. 0059405						CHECKED BY:		

## GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:
 

LIGHTING CONTROL SWITCHES	1.40 M. ABOVE FFL. & 150 MM FROM JAMBS
CONVENIENCE OUTLET	0.30 M ABOVE FLOOR FINISH
COUNTER HEIGHT OUTLET	0.30 M ABOVE COUNTER FINISH
PANEL BOARD	1.40 M ABOVE FLOOR FINISH
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.

## VOLTAGE DROP CALCULATION

a)  $VD = KDI \sqrt{I^2 + X^2}$   
 b) PERCENT VD (%VD) =  $\frac{(VD_{PP1} + VD_{1.5HP ACU})}{V_S} \times 100\%$

1. A 1.5 HP ACU, CONNECTED 12 METERS FROM THE POWER PANEL 1 WITH 2 X 5.5.0mm<sup>2</sup> THHN COPPER CONDUCTORS IN 32 mm Ø IMC CONDUIT IS CONSIDERED AS THE FARTHEST LOAD

2. THE POWER PANEL 1 WHICH DRAWS A TOTAL CURRENT OF 41.37 AMPERES FROM 3Ø 230 VOLTS POWER SUPPLY IS 20 METER AWAY AND SUPPLIED BY 2 -22.0mm<sup>2</sup> THHN COPPER CONDUCTORS IN 32 mm Ø IMC CONDUIT

VD AT 1.5HP ACU TERMINALS  
 $VD = 2 \times 10 \times \sqrt{1^2 + 0.05^2} \times 12/305$   
 $= 2 \times 10 \times 1.2 \times 0.039$   
 $= 0.95 \text{ VOLTS}$

VD AT PP1 TERMINALS  
 $VD = 1.732 \times 41.37 \times \sqrt{0.31^2 + 0.06^2} \times 20/305$   
 $= 1.732 \times 41.37 \times 0.316 \times 0.068$   
 $= 1.46 \text{ VOLTS}$

%VD AT POWER PANEL 1 TERMINALS TO 1.5HP ACU

$\%VD = \frac{.95 + 1.46}{230} \times 100$   
 $= 0.012 \times 100$   
 $= 1.06 \% \text{ VOLTAGE DROP AT 1.5HP ACU TERMINALS FROM THE DISTRIBUTION PANEL VOLTAGE SUPPLY}$

FROM PEC TABLE 10.1.1.9

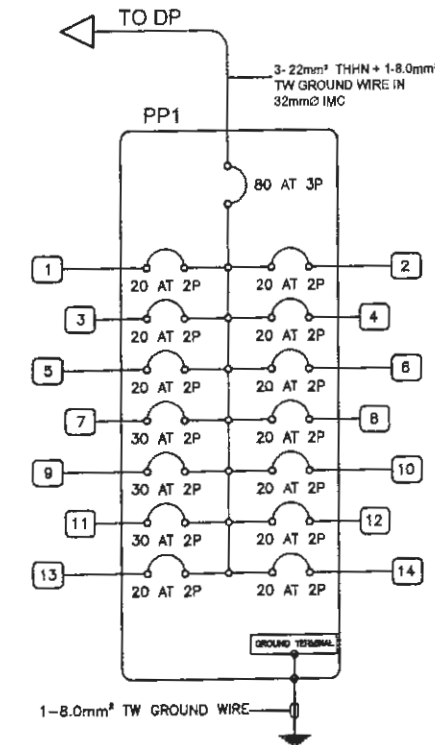
R (3 - PH) =  $0.12 \Omega / 305m (75^\circ C) 5.5mm^2 \text{ CABLE IN PVC CONDUIT}$   
 $0.31 \Omega / 305m (75^\circ C) 22.0mm^2 \text{ CABLE IN STEEL CONDUIT}$

X (3-PH) =  $0.05 \Omega / 305m (60Hz) 5.5mm^2 \text{ CABLE IN PVC CONDUIT}$   
 $0.06 \Omega / 305m (60Hz) 22.0mm^2 \text{ CABLE IN STEEL CONDUIT}$

## LEGEND:

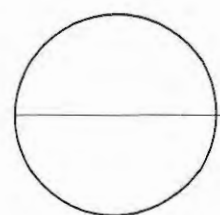
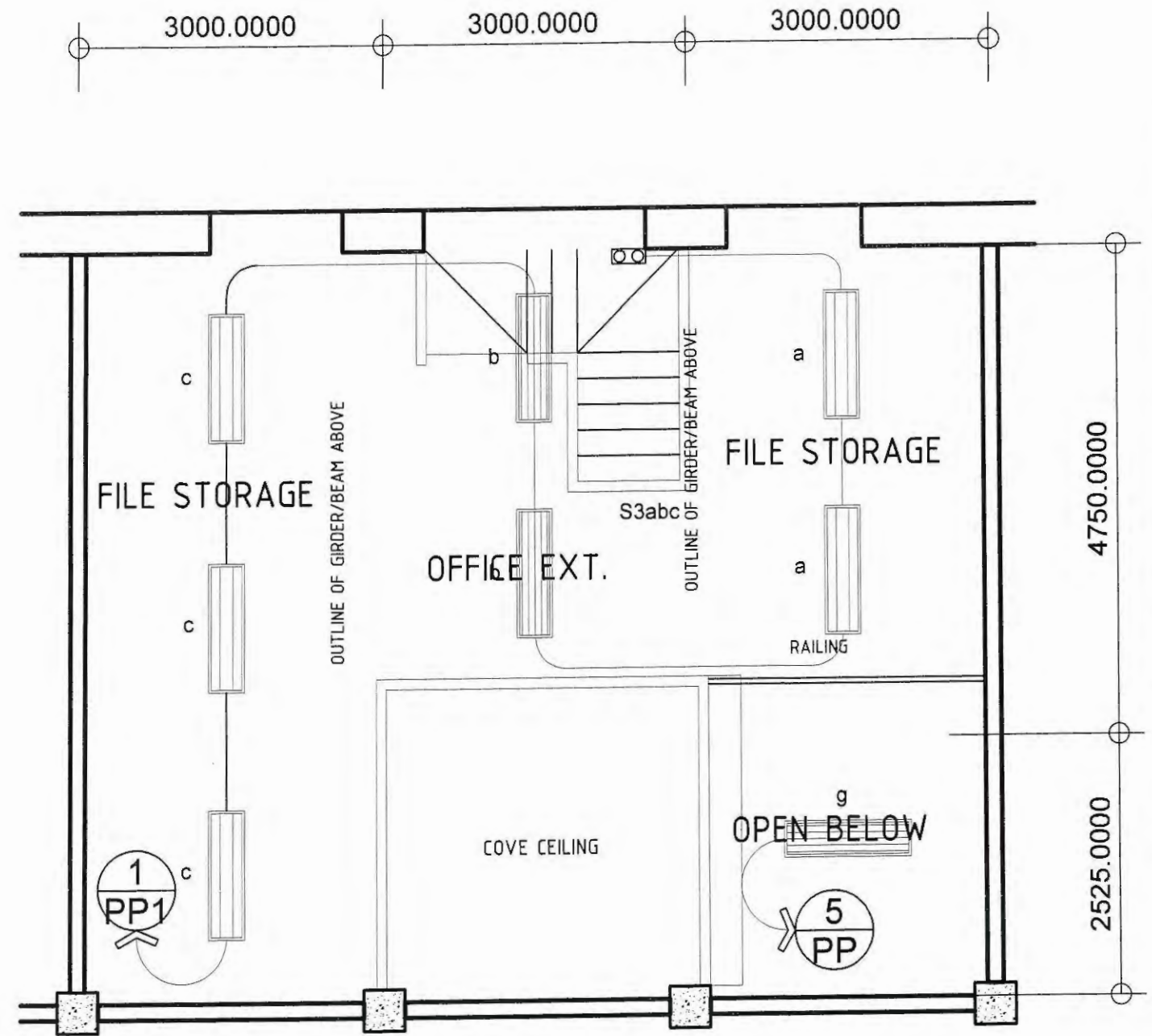
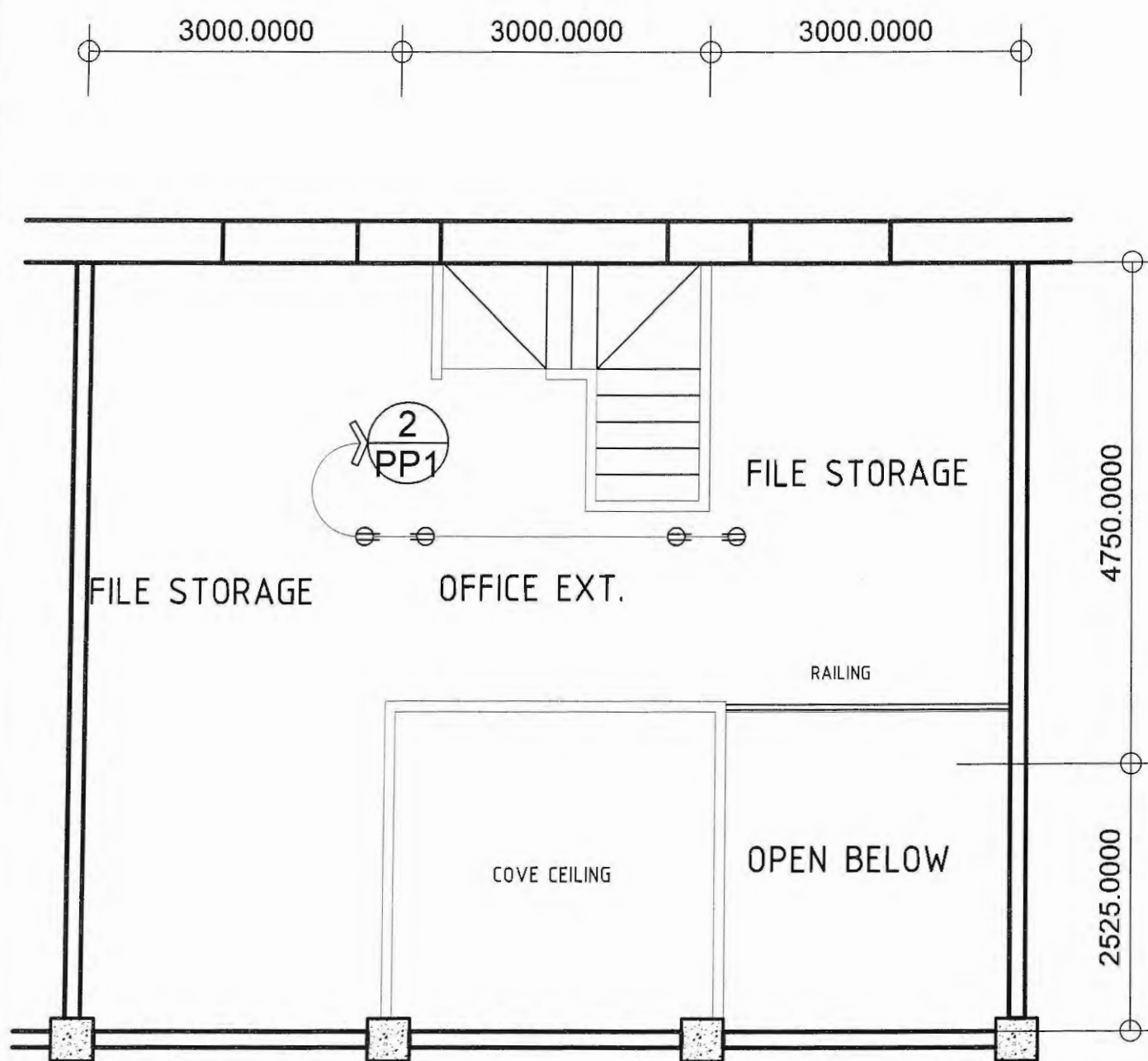
- LED STRIP LIGHT
- 12 WATTS LED DOWNLIGHT
- 2-16W LED TUBE IN TROFFER FIXTURE
- 1-16W TUBULAR LED TUBE IN TROFFER FIXTURE
- EMERGENCY LAMP
- DUPLEX CONVENIENCE OUTLET
- WEATHER PROOF TWO GANG OUTLET
- COUNTER TOP OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER
- DATA CABINET OUTLET
- Sa SINGLE POLE, ONE GANG SWITCH
- Sab SINGLE POLE, TWO GANG SWITCH
- Sabc SINGLE POLE, THREE GANG SWITCH
- S3abc THREE GANG, THREE WAY SWITCH
- CIRCUIT HOMERUN
- PANEL BOARD
- PROJECTOR OUTLET

PP1																	
CTK. NO.	LOAD DESCRIPTION	NO. OF C.O.	NO. OF L.O.	SWITCHES				VOLTS	VOLT AMP. RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S1	S2	S3	S3W			AB Ø	BC Ø	CA Ø	3Ø	AT	P	AF	
1	L.O. MEZZANINE	1	6				6	230		3.48				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
2	C.O. MEZZANINE	4						230		3.13				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
3	L.O. CONF. ROOM / CR	4	22		1	1		230				11.30		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
4	C.O. DIRECTOR'S OFFICE/ PASEC	9						230				7.04		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
5	L.O. DIRECTOR'S OFFICE/ PASEC	4	32			3		230			16.09			20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
6	C.O. CONF. ROOM / CR	8						230			6.26			20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
7	1.5HP ACU / CONF. ROOM #1							230		10.0				20	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
8	1.0HP ACU/ DIRECTOR'S OFFICE							230		8.0				20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
9	1.5HP ACU / CONF. ROOM #2							230				10.0		30	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
10	1.0HP ACU / PASEC ROOM							230				8.0		20	2	50	2 - 3.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 3.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
11	1.5HP ACU / STAFF							230			10.0			30	2	50	2 - 5.5mm <sup>2</sup> THHN COPPER WIRE + 1 - 5.5mm <sup>2</sup> TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
12	DATA CABINET	1						230			6.52			20	2	50	
13	SPARE							230		6.52				20	2	50	
14	SPARE							230		6.52				20	2	50	
	TOTAL	31	60		1	4	6			37.65	38.87	36.35					
FULL LOAD CURRENT @ 100% DF = $[38.87 + (0.25 \times 28)] \times 1.0 = 41.37$ AMPERES FEEDER SIZE : 3-22mm <sup>2</sup> THHN + 1-8.0mm <sup>2</sup> TW GROUND WIRE @ 32 mmØ IMC PROTECTION : 1-80AT,3P, 240V, 100 AF, 60 Hz, 15 KAIC, INDUSTRIAL TYPE MCCB																	
NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON MINATURE TYPE																	



OWNER: Philippine Normal University 1111 AVENUE, MANILA	NAME OF PROJECT: REPAIR & RENOVATION OF HRDMS OFFICE	REPRESENTED BY: MARK ANTHONY Q. AMUL ELECTRICAL ENGINEER PTR NO. 0846421 PRC REG. NO. 0074155	SUBMITTED BY: JOHN P. MATIVIDAD DIRECTOR, FMSS	CONFORME: MARIBEL A. GERUNDIO DIRECTOR, HRDMS	RECOMMENDING APPROVAL BY: JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	APPROVED BY: BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	SHEET CONTENT: AS SHOWN	CAD BY: RYS	DESIGN: AGA	CHECKED BY:	SHT. NO.: E 1
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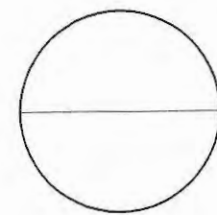




# MEZZANINE POWER LAY OUT

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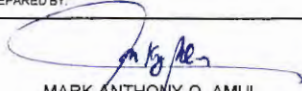
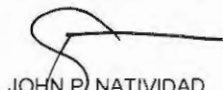
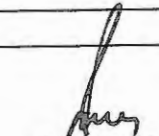
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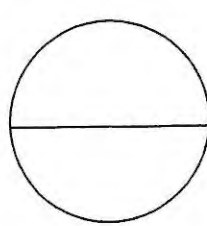
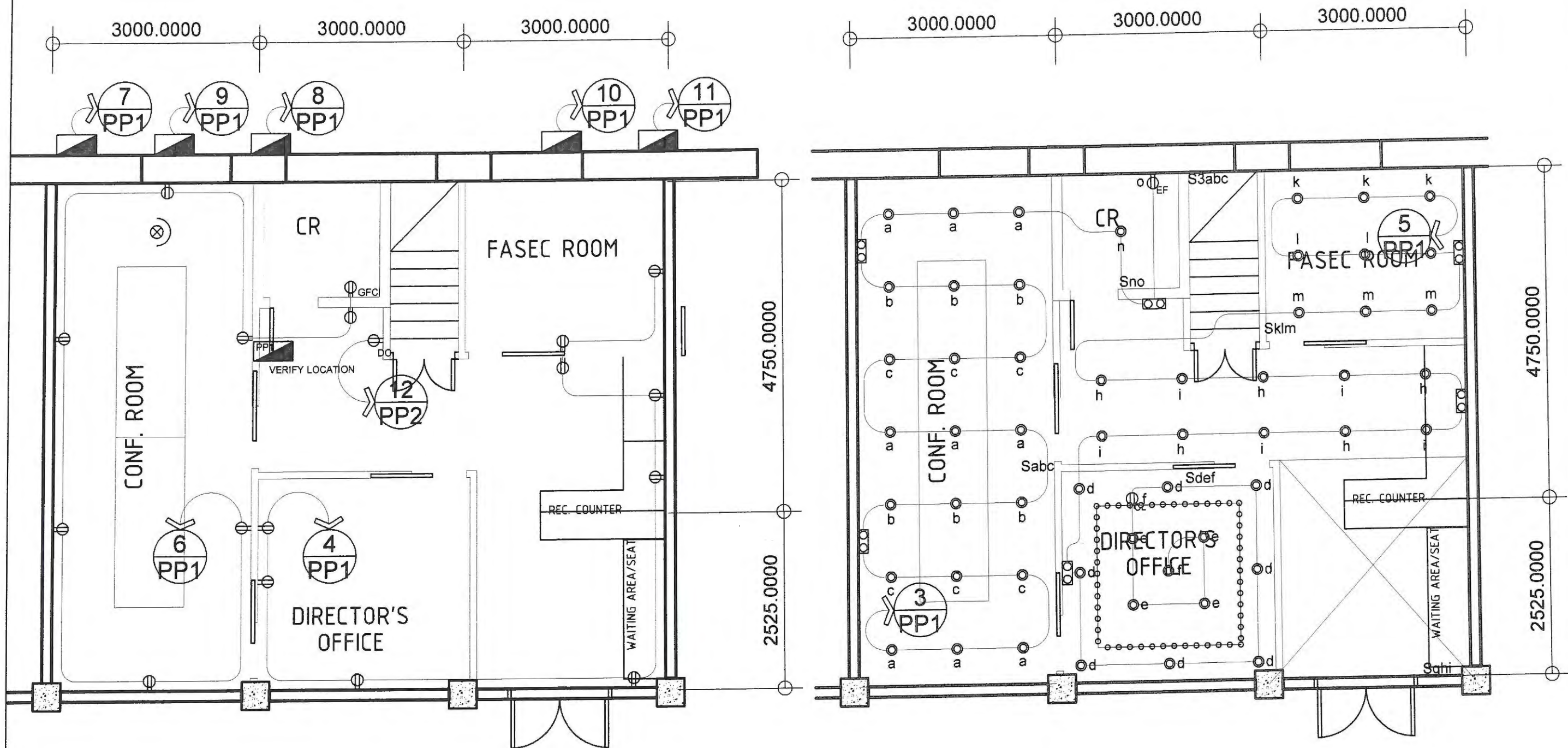
# MEZZANINE LIGHTING LAY OUT

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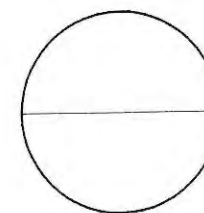
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 Philippine Normal University TAFI AVENUE, MANILA	REPAIR & RENOVATION OF HRDMS OFFICE	 MARK ANTHONY Q. AMUL ELECTRICAL ENGINEER	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRDMS	JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	AS SHOWN	RYS	E 2
		PTR NO. 0846421						DESIGN: AGA	
		PRC REG. NO. 0074155						CHECKED BY:	





# GROUND FLOOR POWER LAYOUT


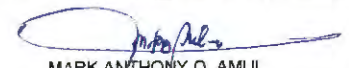
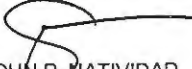


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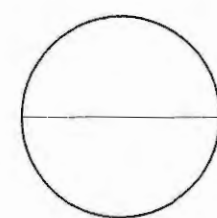
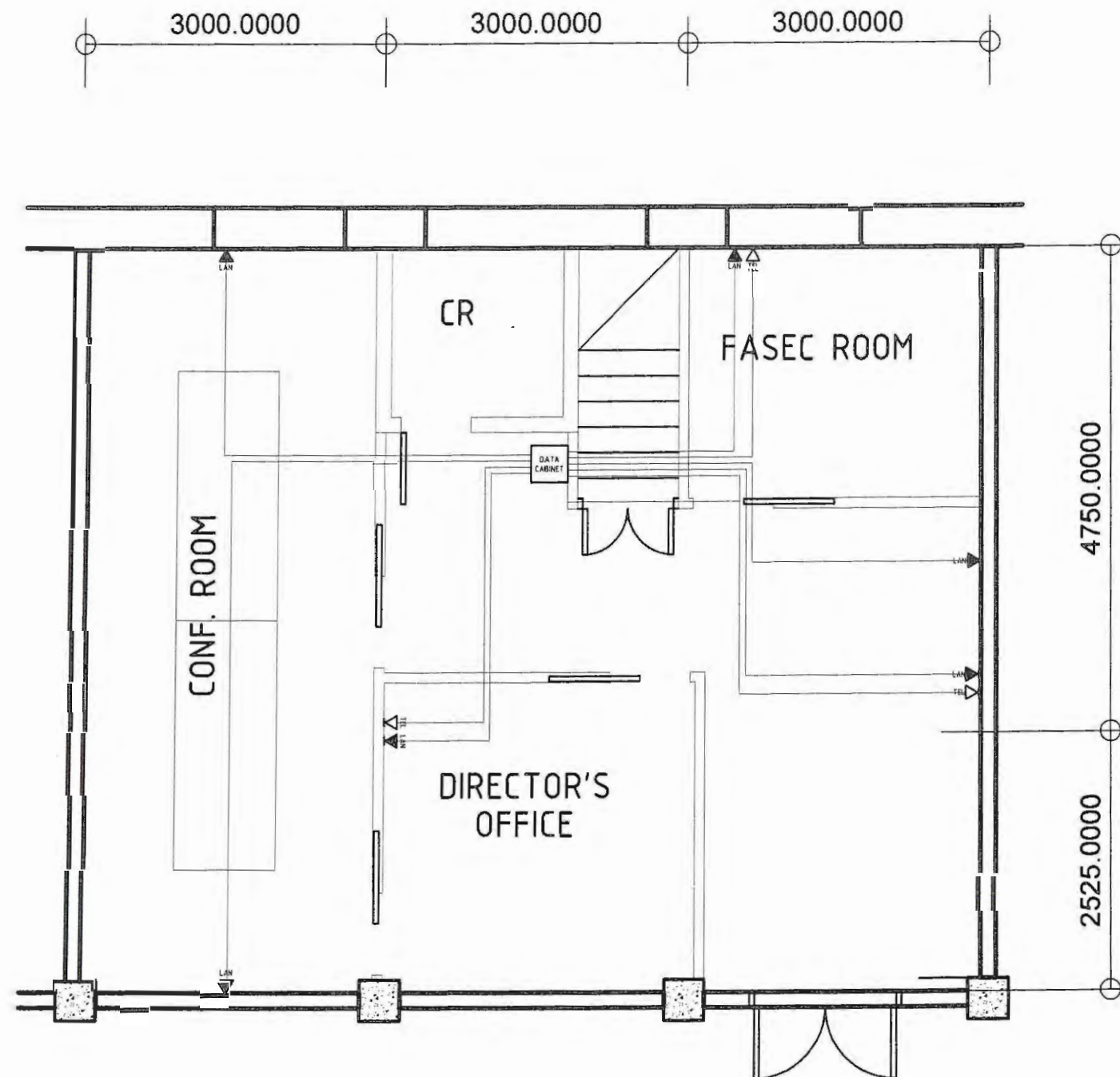


# GROUND FLOOR LIGHTING LAY OUT

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N T S .


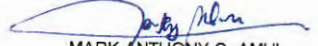
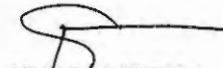

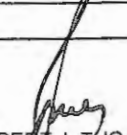
OWNER:	NAME OF PROJECT:	PREPARED BY:	SUBMITTED BY:	CONFORME:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	CAD BY:	RYS	SHT. NO.:
 <b>Philippine Normal University</b> <small>TAFT AVENUE, MANILA</small>	REPAIR & RENOVATION OF HRDMS OFFICE	 <b>MARK ANTHONY Q. AMUL</b> <small>ELECTRICAL ENGINEER</small>	 <b>JOHN P. NATIVIDAD</b> <small>DIRECTOR, FMSS</small>	<b>MARIBEL A. GERUNDIO</b> <small>DIRECTOR, HRDMS</small>	 <b>JOSE M. OCAMPO, Ph.D.</b> <small>VP FOR FINANCE AND ADMINISTRATION</small>	 <b>BERT J. TUGA, Ph.D.</b> <small>PHIL. NORMAL UNIVERSITY, PRESIDENT</small>	AS SHOWN	DESIGN:	AGA	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">E</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">3</div> </div>
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GROUND FLOOR  
AUXILIARY LAY OUT

SCALE:

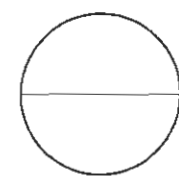
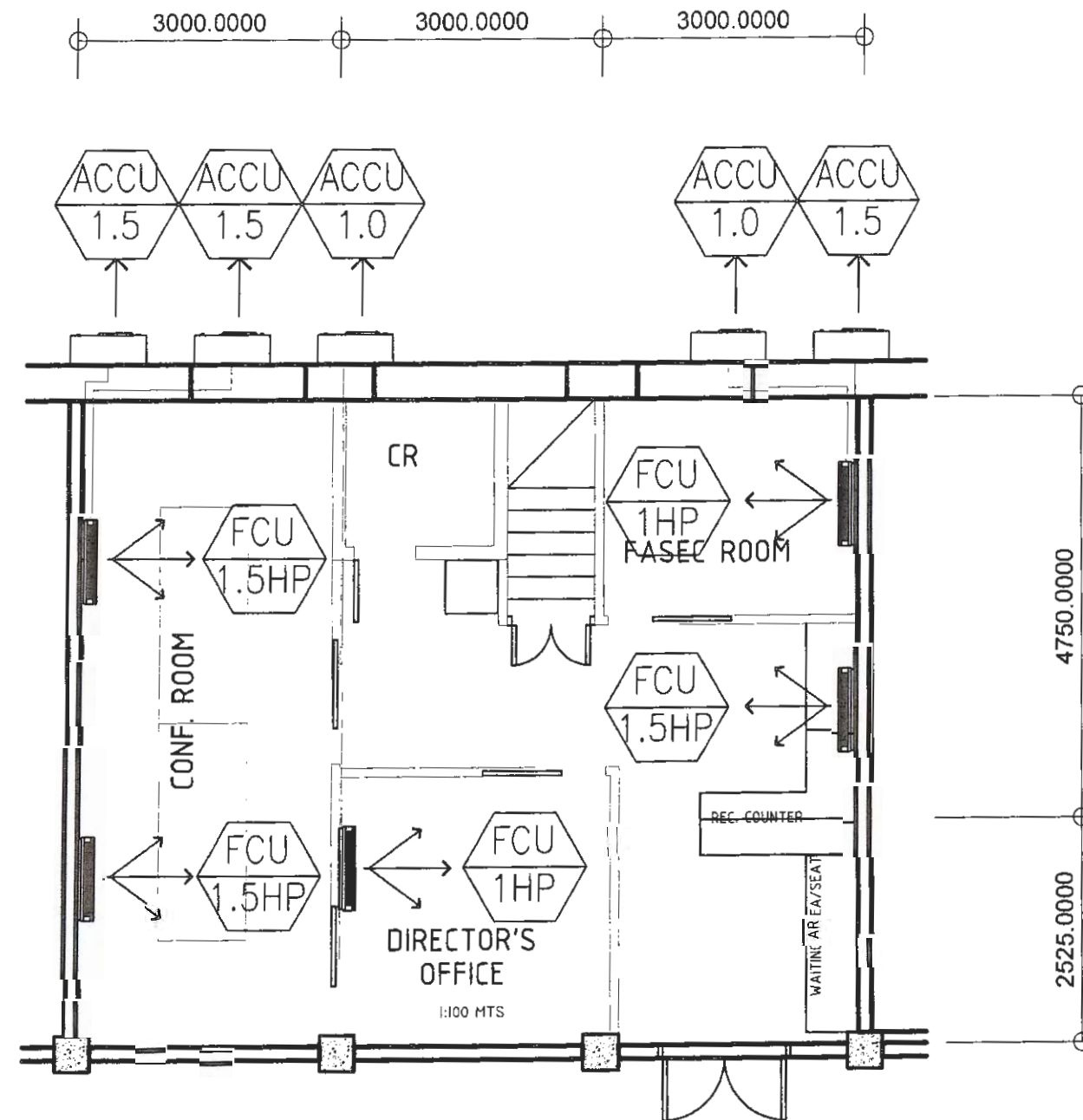
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OWNER:	NAME OF PROJECT:	PREPARED BY:	SUBMITTED BY:	CONFORME:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	CAD BY:	SHT. NO.:
 <b>Philippine Normal University</b> <small>1400 FT AVENUE, MARILA</small>	REPAIR & RENOVATION OF HRDMS OFFICE	 <b>MARK ANTHONY Q. AMUL</b> <small>ELECTRICAL ENGINEER</small>	 <b>JOHN P. NATIVIDAD</b> <small>DIRECTOR, FMSS</small>	<b>MARIBEL A. GERUNDIO</b> <small>DIRECTOR, HRDMS</small>	 <b>JOSE M. OCAMPO, Ph.D.</b> <small>VP FOR FINANCE AND ADMINISTRATION</small>	 <b>BERT J. TUGA, Ph.D.</b> <small>PHIL. NORMAL UNIVERSITY, PRESIDENT</small>	AS SHOWN	<b>RYS</b> <small>CAD BY:</small> <b>AGA</b> <small>DESIGN:</small> <small>CHECKED BY:</small>	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <b>E</b> 4 </div>
PTR NO. 0846421		PRG REG. NO. 0074155							



## GENERAL NOTES AND SPECIFICATIONS:


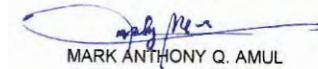

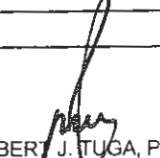
1. ALL EQUIPMENT SHALL BE INSTALLED IN APPROXIMATE LOCATION AS SHOWN ON THE DRAWINGS.
2. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUPPORTED WITH VIBRATION ISOLATOR OR ASSEMBLIES AS SPECIFIED ON THE DRAWINGS.
3. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SETWORK OR FINISH AS DETERMINED BY THE ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW & CLEAN
5. DEVIATIONS AND REVISIONS FROM PLANS SHALL BE REFERED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
6. ALL NECESSARY GOVERNMENT PERMIT SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
7. ALL DIMENSION ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
8. ALL MECHANICAL WORKS SHALL BE . IN ACCORDANCE WITH THE LATEST MECHANICAL ENGINEER'S CODE ASVE, SMACNA AND ASHRAE STANDARD
9. MECHANICAL CONTRACTOR SHALL ALWAYS OBSERVE SAFETY AND ORDERLINESS.
10. MECHANICAL CONTRACTOR SHALL VERIFY SITE PRIOR TO ACTUAL INSTALLATION
11. ALL A/C & VENTILATING EQUIPMENT CONTROL PANEL SWITCH SHALL BE LOCATED AT THE MANAGER'S OFFICE.
12. THE MECHANICAL CONTRACTOR SHALL CONDUCT TESTING, BALANCING AND COMMISSIONING OF ALL A/C & VENTILATING EQUIPMENT
13. ALL JOINTS SHALL BE FULLY WELDED.
14. ALL CONTROL WIRING SHALL BE BY THIS CONTRACTOR.
15. ALL POWER WIRING SHALL BE BY ELECTRICAL CONTRACTOR.



## GROUND FLOOR ACCU \ FCU LAY OUT

SCALE:

1:100 MTS

OWNER:	NAME OF PROJECT:	PREPARED BY:	SUBMITTED BY:	CONFORME:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT	CAD BY:	RYS	SHT. NO.
 Philippine Normal University 1241 AVENUE MANILA	REPAIR & RENOVATION OF HRDMS OFFICE	 MARK ANTHONY Q. AMUL ELECTRICAL ENGINEER	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRDMS	JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	AS SHOWN	DESIGN:	AGA	M 1
		PTR. NO. 0846421 PRC REG. NO. 0074155						CHECKED BY:		

# ABBREVIATIONS:

FCU FAN COIL UNIT  
 AHU AIR HANDLING UNIT  
 TSP TOTAL STATIC PRESSURE  
 TR TONS OF REFRIGERATION  
 Pa PASCAL  
 W WATTS  
 CFM CUBIC FEET PER MINUTE  
 BTU BRITISH THERMAL UNIT  
 GPM GALLONS PER MINUTE

# EQUIPMENT SCHEDULE


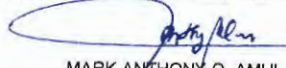
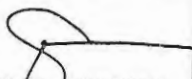

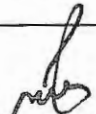

FAN COIL UNIT (INDOOR INVERTER TYPE)							
UNIT TAG	TYPE	QTY	COOLING CAPACITY	KW	V	PH	HZ
1HP FCU	WALL MOUNTED	2	1.0 HP	.88	230	SINGLE	60
1.5HP FCU	WALL MOUNTED	3	1.5 HP	1.04	230	SINGLE	60
CONDENSER UNIT (OUTDOOR INVERTER TYPE)							
UNIT TAG	TYPE	QTY	COOLING CAPACITY	KW	V	PH	HZ
1.0 ACCU	WALL MOUNTED	2	1.0 HP	.88	230	SINGLE	60
1.5 ACCU	WALL MOUNTED	3	1.5 HP	1.04	230	SINGLE	60

## FAN COIL UNIT WALL MOUNTED

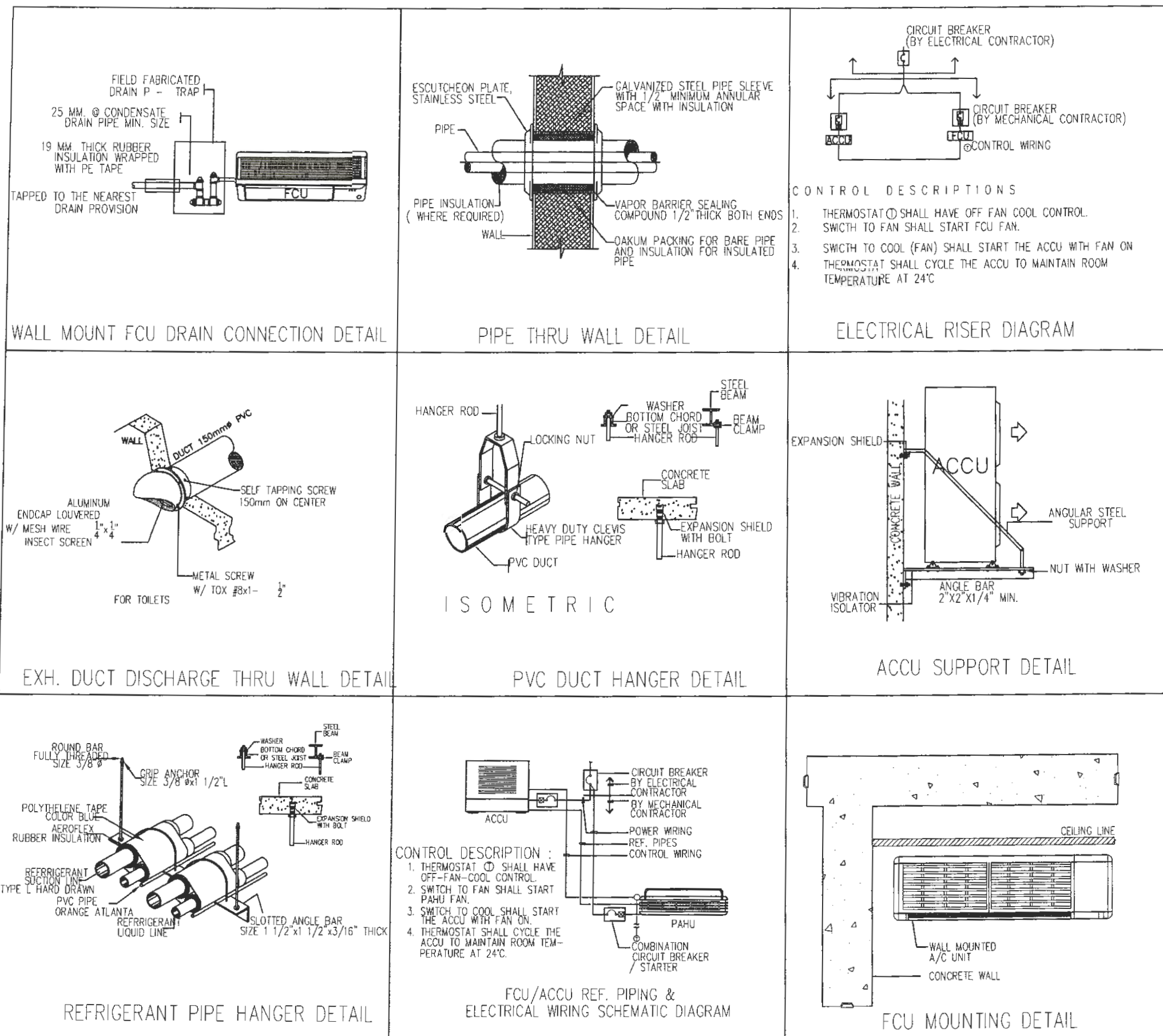
UNIT	QTY.	AREA SERVED	COOLING CAPACITY		AIR FLOW CAPACITY		COIL DATA			MOTOR DATA				APPROXIMATE OPERATING WEIGHT (KGS)	REMARKS
			HP	BTU/ HR	CFM	CMH	NO. OF CIRCUITS	NO. OF ROWS	FPI	DRIVE	HP	WATTS	ELECTRICAL SUPPLY VOLTS PHASE CYCLE		
FCU-WM-1.5HP	3	AS-SHOWN	1.5	9900	254	431	1	3	12	DIRECT	0.024	18	220 1 60	9	UNIT SHALL BE WALL MOUNTED TYPE, FREE BLOW COMPLETE WITH WASHABLE TYPE AIR FILTERS, FITTINGS AND OTHER STANDARD ACCESSORIES.
FCU-WM-1.0HP	2	AS-SHOWN	1.0	9900	254	431	1	3	12	DIRECT	0.024	18	220 1 60	9	


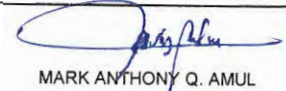


## AIR COOLED CONDENSING UNIT

UNIT	QTY.	AREA SERVED	COOLING CAPACITY		OPERATING TEMPERATURE				COMPRESSOR DATA				CONDENSER DATA						APPROXIMATE OPERATING WEIGHT (KGS)	REMARKS	
			HP	BTU/ HR	EVAPORATING		CONDENSING		NO.	KW INPUT	ELECTRICAL SUPPLY			NO. OF PROPELLER FAN	DRIVE	WATTS	ELECTRICAL SUPPLY				
					°C	°F	°C	°F			VOLTS	PHASE	CYCLE				VOLTS	PHASE			CYCLE
ACCU-1.5HP	3	AS-SHOWN	1.5HP	9900	4.44	40	48.8	120	1	0.70	220	1	60	1	DIRECT	27	220	1	60	34	UNIT SHALL BE SUITABLE FOR OUTDOOR INSTALLATION PROVIDE WITH SAFETY DEVICES, TIMER MOTOR FOR COMPRESSOR, ANTI-CYCLING HIGH & LOW PRESSURE CONTROLS, VIBRATION ISOLATORS & OTHER STANDARD ACCESSORIES.
ACCU-1.0HP	2	AS-SHOWN	1.0HP	9900	4.44	40	48.8	120	1	0.70	220	1	60	1	DIRECT	27	220	1	60	34	

OWNER:  Philippine Normal University TAFT AVENUE, MANILA	NAME OF PROJECT: REPAIR & RENOVATION OF HRDMS OFFICE	PREPARED BY:  MARK ANTHONY Q. AMUL ELECTRICAL ENGINEER PTR NO. 0846421 PRC REG. NO. 0074155	SUBMITTED BY:  JOHN P. NATIVIDAD DIRECTOR, FMSS	CONFORME: MARIBEL A. GERUNDIO DIRECTOR, HRDMS	RECOMMENDING APPROVAL BY:  JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	APPROVED BY:  BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	SHEET CONTENT: AS SHOWN	CAD BY: RYS DESIGN: AGA CHECKED BY:	SHT. NO.: 
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OWNER:	NAME OF PROJECT:	PREPARED BY:	SUBMITTED BY:	CONFORME:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	CAD BY:	RYS	SHT. NO.:
 Philippine Normal University 7, 47T AVENUE, MANILA	REPAIR & RENOVATION OF HRDMS OFFICE	 MARK ANTHONY Q. AMUL ELECTRICAL ENGINEER	 JOHN P. NATIVIDAD DIRECTOR, FMSS	MARIBEL A. GERUNDIO DIRECTOR, HRDMS	JOSE M. OCAMPO, Ph.D. VP FOR FINANCE AND ADMINISTRATION	 BERT J. TUGA, Ph.D. PHIL. NORMAL UNIVERSITY, PRESIDENT	AS SHOWN	DESIGN:	AGA	M 3
		PTR NO. 0848421 PRC REG. NO. 0074155						CHECKED BY:		

PURCHASE REQUEST  
PHILIPPINE NORMAL UNIVERSITY  
AGENCY

Department: FMSS  
Section: \_\_\_\_\_

PR No. \_\_\_\_\_  
SAI No. \_\_\_\_\_

31-Mar-23 23040773  
Date:

Stock No.	Unit	Description	Quantity	Unit Estimated Cost	Total Unit Estimated Cost
	lot	Repair and Renovation of the Office of the University President and the Vice President for Academics	1	4,499,961.62	4,499,961.62
		Attached documents:			-
		Scope of Works			-
		Bill of Quantities			-
		Plans			-
		Philippine Normal University OFFICE OF THE UNIVERSITY PRESIDENT <b>RECEIVED</b> Date: <u>3-21-2023</u> By: <u>[Signature]</u>			-
		PHILIPPINE NORMAL UNIVERSITY Procurement Management Unit Taft Avenue, Manila <b>RECEIVED</b> BY <u>Kris</u> DATE <u>APR 17 2023</u>			-
		Certification of Availability of Funds: <u>[Signature]</u> JASTINE BREATHE A. PACURIB Accountant III		<u>P 4,499,961.62</u> <u>[Signature]</u>	-
		Included in the Approved PPMP/APP 2023 Checked by <u>Kris</u> Date <u>4/17/23</u>			-
		Total Estimated Cost			4,499,961.62
		maintenance			

Purpose: Repair/Improvement of the University Facilities
----------------------------------------------------------

Requested by:

Approved by:

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_

**John P. Natividad**  
Director

DR. BERT L. TUGA  
President

Date	31/03/2023
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Name of Project:       **REPAIR AND RENOVATION OF THE OFFICES OF THE UNIVERSITY PRESIDENT  
AND THE VICE PRESIDENT FOR ACADEMICS**

Subject:               **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II. OFFICE OF THE UNIVERSITY PRESIDENT**

**A. CIVIL/ARCHITECTURAL WORKS**

**1. Demolition and Disposal Works**

1. Removal of existing ceiling including all unnecessary ceiling attachments.
2. Removal of doors and jambs.
3. Removal of countertop finish and cabinets.
4. Removal of floor and wall finishes and all unnecessary flooring and wall attachments.
5. Disposal of debris and site cleanup.

**2. Ceiling Works**

1. Supply and installation of fiber cement ceiling board on light gage metal framing, complete with coves at designated areas.
2. Supply and installation of moldings and cornices.

### **3. Repair of Pantry**

1. Repair/concreting of flooring under the countertop.
2. Supply and installation of granite countertop, complete with backsplash and countertop wall tiles.
3. Supply and installation of cupboard and undercounter cabinet.
4. Supply and installation of kitchen sink and grease trap, complete with plumbing accessories.
5. Supply and installation of floor vinyl planks.

### **4. Doors**

1. Supply and installation of tanguile panel doors.
2. Installation of owner-supplied door hardware and accessories.
3. Supply and installation of electronic lock for the door at the office of the university president.

### **5. Miscellaneous Architectural Works**

1. Supply and installation of accent wood panel.
2. Supply and installation of wall-mounted university logo.
3. Supply and installation of vertical slatwall.

### **6. Painting/Repainting Works**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. Painting of raised flooring under the countertop using rubberized floor paint.
3. Painting/repainting of interior masonry and concrete finishes, using acrylic latex paint.
4. Painting of fiber cement board ceiling using semi-gloss or flat acrylic latex paint.
5. Painting/Repainting of wood and steel finishes using quick-drying alky enamel paints.
6. Wood staining/finishing of panel doors and slatwall.

## **B. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits.
4. Remove the existing lighting fixtures and power outlets and switches.

5. Disconnect and remove any electrical equipment that is no longer needed.
6. Dismantle existing data outlet and replace with new one.
7. Install new electrical wiring and conduits as needed to support the updated electrical system.
8. Upgrade the lighting system with energy-efficient LED fixtures that provide adequate illumination while reducing energy consumption.
9. Install new power outlets and switches as needed to support the office's electrical requirements.
10. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
11. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
12. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. No-Load, and Full Load Test Result
  - c. Continuity Test Result
  - d. Live test Result
13. As-built electrical drawings showing the updated electrical system.

### **III. OFFICE OF THE VICE PRESIDENT FOR ACADEMICS**

#### **A. CIVIL/ARCHITECTURAL WORKS**

##### **1. Demolition and Disposal Works**

1. Removal of existing ceiling including all unnecessary ceiling attachments.
2. Removal of countertop finish and cabinets.
3. Removal of floor and wall finishes and all unnecessary flooring and wall attachments.
4. Disposal of debris and site cleanup.

##### **2. Ceiling Works**

1. Supply and installation of fiber cement ceiling board on light gage metal framing, complete with coves at designated areas.
2. Supply and installation of moldings and cornices.

### **3. Partition Works**

1. Supply and installation of fiber cement partition board on light gage metal framing, complete with rockwall insulations.
2. Supply and installation of baseboards.

### **4. Repair of Pantry**

1. Repair/concreting of flooring under the countertop.
2. Supply and installation of granite countertop, complete with backsplash and countertop wall tiles.
3. Supply and installation of cupboard and undercounter cabinet.
4. Supply and installation of kitchen sink and grease trap, complete with plumbing accessories.
5. Supply and installation of floor vinyl planks.

### **5. Doors**

1. Supply and installation of flush doors in high pressure laminate finishes.
2. Installation of owner-supplied door hardware and accessories.

### **6. Miscellaneous Architectural Works**

1. Supply and installation of accent wood panel.

### **7. Painting/Repainting Works**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. Painting of raised flooring under the countertop using rubberized floor paint.
3. Painting/repainting of interior masonry and concrete finishes, using acrylic latex paint.
4. Painting of fiber cement board ceiling using semi-gloss or flat acrylic latex paint.
5. Painting/Repainting of wood and steel finishes using quick-drying alkyd enamel paints.

## **B. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits.
4. Remove the existing lighting fixtures and power outlets and switches.
5. Disconnect and remove any electrical equipment that is no longer needed.



6. Install new electrical wiring and conduits as needed to support the updated electrical system.
7. Dismantle existing data outlet and replace with new one.
8. Upgrade the lighting system with energy-efficient LED fixtures that provide adequate illumination while reducing energy consumption.
9. Install new power outlets and switches as needed to support the office's electrical requirements.
10. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
11. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
12. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. No-Load, and Full Load Test Result
  - c. Continuity Test Result
  - d. Live test Result
13. As-built electrical drawings showing the updated electrical system.

**SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

## **TECHNICAL SPECIFICATIONS**

### **GENERAL NOTES:**

1. The Contractor is expected to review the specifications and to verify all measurements and dimensions at the site. In case of discrepancy in details and dimensions; it shall be brought to the attention of the Engineer for clarification.
2. All works shall be done in the best workmanship manner and in accordance with the local practice of highest industry-accepted standards.
3. All materials shall be subject to approval. The Contractor shall submit the material technical data and/or samples appropriately.

### **DEMOLITION WORKS**

1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary for the demolition works as described in the Scope of Works.
2. Execute demolition works in such a manner as to ensure the protection of adjacent properties against damage.
3. Remove, as it accumulates, debris resulting from demolition. Woods and other combustible materials must not be burned on site.

### **DRYWALL**

#### **1. Submittals**

- a. Material Technical Data
- b. Samples:
  - i. Two 300mm square boards of each required type.
  - ii. Two 300mm long of each type of metal studs and furring.

#### **2. Materials:** Unless otherwise necessary, materials shall be supplied by only one manufacturer.

- a. Fiber cement board:
  - i. Thickness: 6.0mm for wall, 4.5mm for ceiling, squared edges
  - ii. Fire rating: more than 2 hours
  - iii. See table for Physical Properties
- b. Structural framing:

- i. Runners: Channel or angle shaped. Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, shall be used.
  - ii. Metal Studs: Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, for the wall system and height indicated shall be used.
  - iii. Furring channels: Cold-rolled galvanized steel, flanged channel type for wall furring and ceiling attachment shall be used.
- c. Suspension members for ceiling:
  - i. Hangers: Galvanized hangers, minimum 10mm diameter threaded rods shall be used.
  - ii. Carrying channel: Cold-rolled galvanized channels, 1.0mm thk, 38mm depth shall be used.
  - iii. Furring channels: Cold-rolled galvanized steel channels, 0.6mm thk, minimum 19mm flange depth shall be used.
- d. Fasteners: For all applications involving drywall, comply with the manufacturer's recommendations.

### **3. Installation:**

- a. General:
  - i. Install all materials and systems in accordance with the manufacturer's instructions unless otherwise shown or directed.
  - ii. Install the maximum practical lengths of fiber cement or plasterboard to span walls and ceiling with a minimum number of end butt joints.
  - iii. Apply pressure to the surface of wallboard while fastener is being driven to ensure that wallboard will be secured tightly to the supporting frame.
- b. Wall:
  - i. Provide additional framing and blocking as required to support wallboards at openings and cut-outs, and to support built-in anchorage and attachment devices for other works.
  - ii. Provide 50mm x 75mm, 2.0mm steel tubular frame extending from the flooring to the soffit of slab above, if needed, to support in the stabilization of partitions and especially in the installation of doors.
- c. Ceiling:

- i. Provide hangers and inserts necessary to support suspended ceilings, giving attention to the correct location and alignment.
- ii. Provide frames for all openings with furring strips so that recessed items shall finish flush with the ceiling, unless otherwise shown on drawings.
- iii. Provide sufficient hangers on each side of lighting fixtures, diffusers, and other similar items.
- iv. Secure furring channels to primary suspension runners/carrying channels by appropriate clips. Space furring channels at 0.40m on centers or as recommended by the wallboard manufacturer, whichever is smaller.

#### **4. Quality Control Verification Items:**

- a. Sample, type, specification, dimension, color pattern, appearance, and dryness of material in comparison with the sample.
- b. Method and sequence of installation.
- c. Reference mark and layout
- d. Spacing, alignment, plumbness, deformation (if any)
- e. Detail of connection.
- f. Fastening condition of boards.
- g. Cleaning of exposed surfaces.
- h. Protection.

### **PAINTING AND REPAINTING WORKS**

#### **1. Submittals**

- a. Material Lists
- b. Material Technical Data
- c. Manufacturer' Standard Color Chart
- d. Samples:
  - i. Two representative samples of each finish coat on 200mm x 200mm palettes.

#### **2. Painting System**

- a. Concrete, Cement Plaster

Surface preparation:                      Application of neutralizer and cleaning



- |                  |                                                          |
|------------------|----------------------------------------------------------|
| Prime coat:      | Flat latex, cementitious skim coat or cement paint putty |
| Topcoat:         | Acrylic latex paint                                      |
| Color and sheen: | Refer to approved sample                                 |
- b. Fiber Cement Substrates
- |                      |                                              |
|----------------------|----------------------------------------------|
| Surface preparation: | Patching holes and other minor imperfections |
| Prime coat:          | Flat latex, gypsum joint compound            |
| Topcoat:             | Acrylic latex paint                          |
| Color and sheen:     | Refer to approved sample                     |
- c. Structural Steel
- |                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Surface preparations: | SP-3 Power Tool Cleaning<br>SP-6 Commercial Blast Cleaning |
| Prime coat:           | Zinc Chromate/Epoxy Primer                                 |
| Topcoat:              | Epoxy paint or epoxy enamel                                |
| Color and sheen:      | Refer to approved sample                                   |
- d. Metal Surfaces
- |                       |                                    |
|-----------------------|------------------------------------|
| Surface preparations: | SP-3 Surface Preparation Standards |
| Prime coat:           | Red oxide metal primer             |
| Topcoat:              | Alkyd based paint                  |
| Color and sheen:      | Refer to approved sample           |
- e. Wood Surfaces
- |                       |                                |
|-----------------------|--------------------------------|
| Surface preparations: | Sanding, dusting and cleaning  |
| Prime coat:           | Flatwall enamel, glazing putty |
| Topcoat:              | Alkyd based paint              |
| Color and sheen:      | refer to approved sample       |
- f. Repainting of Concrete and Cement Plaster
- |                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Surface preparations: | Remove all loose and unsuitable paint and lightly sand smooth painted surfaces. |
| Prime coat:           | Flat latex, cementitious skim coat or cement paint putty                        |
| Topcoat:              | Acrylic latex paint                                                             |

Color and sheen: Refer to approved sample.

g. Repainting/Revarnishing of Wood Surfaces

Surface preparations: Remove all loose and unsuitable paint/varnish to sound surface.

Prime coat: Sanding sealer

Topcoat: Clear gloss lacquer, lacquer flo

Color and sheen: Refer to approved sample

**3. Quality Control Verification Items:**

- a. Extent, classification, method, sequence of painting work.
- b. Type, property, specification, tone, color, luster in comparison with approved sample.
- c. Preparation of substrate and cleaning method.
- d. Applicability and condition of equipment.
- e. Weather at the time of painting.
- f. Number of coats and duration between coatings.
- g. Quality and condition of paint as to tone, color, luster, evenness, etc.
- h. Appearance of loose or any unsuitable paint and foreign materials.
- i. Protection from paint drops.

**4. Execution**

- a. Examine substrates and conditions, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- b. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
- c. Apply paints according to manufacturer's written instructions.
- d. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- e. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

- f. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- g. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- h. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and re-finishing, as approved by Engineer, and leave in an undamaged condition.

**Additional Documents to be Submitted on Bid Opening:**

- The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category B with specialization/classification of Electrical Work
- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.
- Subcontracting is allowed subject to the compliance with the RA9184 requirements.

*Architectural Works*

Prepared by:



ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

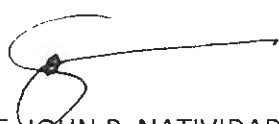
*Electrical Works*

Prepared by:



MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Recommended by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS



**Project: REPAIR AND RENOVATION OF THE OFFICES OF THE UNIVERSITY PRESIDENT  
AND THE VICE PRESIDENT FOR ACADEMICS**

**Subject: BILL OF QUANTITIES**

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
1.00	Mobilization and demobilization	1.00	lot	30,000.00	30,000.00
2.00	Construction Health and Safety	1.00	lot	60,000.00	60,000.00
3.00	Temporary facilities	1.00	lot	30,000.00	30,000.00
	<b>Subtotal (General Requirements)</b>				<b>120,000.00</b>
<b>II</b>	<b>OFFICE OF THE UNIVERSITY PRESIDENT</b>				
<b>A</b>	<b>CIVIL/ARCHITECTURAL WORKS</b>				
<b>1.00</b>	<b>Demolition and Disposal Works</b>				
1.01	Demolition/removal works	1.00	lot	75,500.00	75,500.00
1.02	Disposal of debris and site cleanup	1.00	lot	32,500.00	32,500.00
<b>2.00</b>	<b>Ceiling Works</b>				
2.01	Ceiling with cove: 4.5mm thk fiber cement board on light gage metal framing (submit technical data sheet)	174.40	sq.m.	650.00	113,360.00
2.02	Hangers and supports: Ø10 threaded rod and accessories	1.00	lot	39,520.00	39,520.00
2.03	PVC mouldings/cornices, 100mm	233.50	l.m.	260.00	60,710.00
2.04	PVC mouldings/cornices, 50mm	97.10	l.m.	105.00	10,195.50
2.04	Labor and equipment	1.00	lot	74,500.00	74,500.00
<b>3.00</b>	<b>Repair of Pantry</b>				
3.01	Undercountertop raised flooring	1.00	lot	905.00	905.00
3.02	Granite countertop and backsplash, 3.00m TL x 0.60m W x 0.10m H	1.00	lot	25,960.00	25,960.00
3.03	Countertop wall, 600 x 300mm wall tiles	2.80	sq.m.	1,120.00	3,136.00
3.04	Cupboard and undercounter cabinet: High pressure laminates on marine plywood; wood grain finish on exterior, white on interior	1.00	lot	28,890.00	28,890.00
3.05	S/s kitchen sink, complete with s/s sink faucet and plumbing accessories	1.00	set	5,670.00	5,670.00
3.06	T304 s/s grease trap 5 gal/min capacity, complete with plumbing accessories	1.00	unit	4,260.00	4,260.00
3.07	Replacement of floor vinyl tiles: vinyl planks, 2mm thk wood grain finish	14.20	sq.m.	830.00	11,786.00
3.08	Labor and equipment	1.00	lot	25,680.00	25,680.00
<b>4.00</b>	<b>Doors</b>				
4.01	Tanguile panel doors and jamb	5.00	sets	8,100.00	40,500.00
4.02	Door hardware and accessories	5.00	sets	Owner-supplied materials	
4.03	Heavy-duty electronic lock	1.00	set	70,000.00	70,000.00
4.04	Labor and equipment	1.00	lot	15,000.00	15,000.00
<b>5.00</b>	<b>Miscellaneous Architectural Works</b>				
	<i>Accent Wood Panel:</i>				
5.01	Marine plywoods, 4' x 8' x 18mm	7.00	pcs	1,600.00	11,200.00
5.02	High pressure laminates, 4' x 8', wood grain finish	7.00	pcs	2,000.00	14,000.00
5.03	Edge band, 22 x 2.0mm, wood grain finish	32.00	l.m.	40.00	1,280.00
5.04	Column corner guards, 8'	3.00	lgts	150.00	450.00

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
5.05	Miscellaneous and consumables	1.00	lot	2,280.00	2,280.00
5.06	Wall-mounted university logo with backlight	1.00	pc	25,000.00	25,000.00
	Vertical Narra Slatwall: 2.0m W x 2.40m H				
5.07	Narra planks, 40mm x 100mm x 2.40m	20.00	pcs	1,480.00	29,600.00
5.08	Narra planks, 40mm x 125mm x 2.40m	2.00	pcs	1,850.00	3,700.00
5.09	Miscellaneous and consumables	1.00	lot	1,600.00	1,600.00
4.04	Labor and equipment	1.00	lot	29,180.00	29,180.00
<b>6.00</b>	<b>Painting/Repainting Works</b>				
6.01	Rubberized floor paint on flooring, complete with crack repair and puttying	2.00	sq.m.	Owner-supplied materials	
6.02	Semi-gloss latex on Interior masonry and concrete finish, including window edges	366.30	sq.m.	Owner-supplied materials	
6.03	Semi-gloss/flat latex on ceiling	235.10	sq.m.	Owner-supplied materials	
6.04	Quick-drying enamel on wood and metal finishes	93.60	sq.m.	Owner-supplied materials	
6.05	Oil wood stain/varnish finish on panel doors and slatwall	40.70	sq.m.	Owner-supplied materials	
6.05	Labor and equipment	1.00	lot	102,310.00	102,310.00
	<b>Subtotal (Civil/Architectural Works)</b>				<b>858,672.50</b>
<b>B</b>	<b>ELECTRICAL WORKS</b>				
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	40 mm Φ IMC pipe (submit technical data sheet)	4.00	pcs	2,150.00	8,600.00
1.02	25 mm Φ PVC pipe (submit technical data sheet)	53.00	pcs	210.00	11,130.00
1.03	20 mm Φ PVC pipe (submit technical data sheet)	135.00	pcs	141.00	19,035.00
1.04	15 mm Φ Flexible Metallic Tubing	83.00	lm	150.00	12,450.00
1.05	4" x 4" Octagonal Junction box (metal) ga.16	100.00	pcs	57.00	5,700.00
1.06	2" x 4" Utility box (metal) ga.16	75.00	pcs	45.00	3,375.00
1.07	Square box ga. 16	10.00	pcs	65.00	650.00
1.08	20 mm Φ PVC male adaptor w/ locknut	450.00	pcs	15.00	6,750.00
1.09	25 mm Φ PVC male adaptor w/ locknut	50.00	pcs	25.00	1,250.00
1.10	25 mm Φ Two Hole EMT Clamp	150.00	pcs	24.00	3,600.00
1.11	20 mm Φ Two Hole EMT Clamp	400.00	pcs	19.50	7,800.00
1.12	Unistrut channel 2M	9.00	pcs	2,785.00	25,065.00
1.13	Strut channel Clamp 32mm	150.00	pcs	79.00	11,850.00
1.14	Full threaded Rod 3/8 x 3M	10.00	pcs	1,780.00	17,800.00
1.15	Nuts and washers 3/8	150.00	set	125.50	18,825.00
1.16	Grip Anchor 3/8	8.00	box	985.00	7,880.00
1.17	Labor and equipment	1.00	lot	48,528.00	48,528.00
<b>2.0</b>	<b>Wires and Cable (submit technical data sheet)</b>				
2.01	3.5 sqmm THHN Stranded Wire 150m/box	12.00	box	5,250.00	63,000.00
2.02	5.5sqmm THHN Stranded Wire 150m/box	2.00	box	8,770.00	17,540.00
2.03	8.0 sqmm THHN Stranded Wire 100m/box	3.00	box	6,697.00	20,091.00
2.04	50.0 sqmm THHN Stranded Wire	40.00	lm	347.00	13,880.00
2.05	Labor and equipment	1.00	lot	34,353.30	34,353.30
<b>3.0</b>	<b>Wiring Devices (submit technical data sheet)</b>				
3.01	One-Gang Single Switch Wide Series	3.00	set	198.00	594.00
3.02	Two-Gang Single Switch Wide Series	4.00	set	284.00	1,136.00
3.03	Three-Gang Single Switch Wide Series	4.00	set	332.00	1,328.00
3.04	Two-Gang Three Way Switch Wide Series	2.00	set	352.00	704.00
3.05	Three-Gang Three Way Switch Wide Series	6.00	set	482.00	2,892.00
3.06	One-Gang Convenience Outlet Wide Series	16.00	set	198.00	3,168.00
3.07	Duplex Convenience Outlet Wide Series	33.00	set	430.00	14,190.00
3.08	GFCI Outlet	1.00	set	2,500.00	2,500.00

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
3.09	Aircon Outlet	2.00	set	345.00	690.00
3.10	Labor and equipment	1.00	lot	8,160.60	8,160.60
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet)</b>				-
4.01	Power Panel 2 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	130,000.00	130,000.00
	Main: 150AT,3P, 240 Volts, 60Hz, 25 KAIC, 250 AF				-
	Branches:				-
	4-50AT 3P,4-32AT 2P, 10-20AT 2P, 240 Volts, 10KAIC 60 Hz,MCB				-
	Nema 3R Safety Switch - ACU				
4.02	50AT, 3P, 240 Volts, 60Hz,10 KAIC,MCB, in NEMA 3R Encl	4.00	assy	1,550.00	6,200.00
4.03	32AT, 2P, 240 Volts, 60Hz,10 KAIC,MCB, in NEMA 3R Encl	2.00	assy	1,299.00	2,598.00
4.04	Labor and equipment	1.00	lot	41,639.40	41,639.40
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet)</b>				-
5.01	9Watts LED Slim Type Recessed Downlight (DL)	22.00	set	880.00	19,360.00
5.02	12Watts LED Slim Type Recessed Downlight (DL)	78.00	set	1,099.00	85,722.00
5.03	LED Cove Lights /Strip Lights 12 volts Warm White	90.00	lm	300.00	27,000.00
5.04	LED Cove Lights /Strip Lights 12 volts Blue/WW	50.00	lm	300.00	15,000.00
5.05	200Wattts LED Strip Lights Driver	6.00	set	1,350.00	8,100.00
5.06	LED Emergency Light Dual Optics 2x 1 Watts	8.00	pcs	2,000.00	16,000.00
5.07	Exhaust Fan Wall Mounted 10"	2.00	pcs	1,900.00	3,800.00
5.08	Labor and equipment	1.00	lot	52,494.60	52,494.60
<b>6.0</b>	<b>Miscellaneous</b>				
6.01	Electrical Tape	30.00	pcs	65.00	1,950.00
6.02	G.I. pull wire	10.00	kgs	75.00	750.00
6.03	butane gas	3.00	pcs	120.00	360.00
6.04	torch head	2.00	pcs	750.00	1,500.00
6.05	hacksaw blade	2.00	pcs	115.00	230.00
6.06	1" Black Screw	4.00	box	250.00	1,000.00
6.07	# 6 Plastic Tox	4.00	box	150.00	600.00
6.08	Drill Bit	3.00	pcs	150.00	450.00
6.09	4" Concrete Cutting Disc	2.00	pcs	750.00	1,500.00
6.10	Labor and equipment	1.00	lot	2,502.00	2,502.00
<b>7.0</b>	<b>Testing and Commissioning</b>				
7.01	Testing and Commissioning	1.00	lot	30,000.00	30,000.00
	<b>Subtotal (Electrical Works)</b>				<b>843,270.90</b>
<b>III</b>	<b>OFFICE OF THE VICE PRESIDENT FOR ACADEMICS</b>				
<b>A</b>	<b>CIVIL/ARCHITECTURAL WORKS</b>				
<b>1.00</b>	<b>Demolition and Disposal Works</b>				
1.01	Demolition/removal works	1.00	lot	30,550.00	30,550.00
1.02	Disposal of debris and site cleanup	1.00	lot	25,800.00	25,800.00
<b>2.00</b>	<b>Ceiling Works</b>				
2.01	Ceiling with cove: 4.5mm thk fiber cement board on light gage metal framing (submit technical data sheet)	38.50	sq.m.	650.00	25,025.00
2.02	Hangers and supports: 10mm threaded rods and accesso	1.00	lot	5,080.00	5,080.00
2.03	PVC mouldings/cornices, 100mm	166.00	l.m.	260.00	43,160.00
2.04	PVC mouldings/cornices, 50mm	20.80	l.m.	105.00	2,184.00
2.05	Labor and equipment	1.00	lot	24,600.00	24,600.00
<b>3.00</b>	<b>Partition Works</b>				
3.01	Fiber cement boards, 6.0mm thk x 1.22 x 2.44m	18.00	pcs	800.00	14,400.00
3.02	Fiber cement joint epoxy @ 12kgs/can	1.00	can	2,500.00	2,500.00



Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
3.03	Rockwall insulation, 50mm x 60kg/cu.m., 1.20 x 5.00m L	6.00	rolls	3,200.00	19,200.00
3.04	Metal tracks, 75mm x 3.0m, 0.6mm thk	9.00	lgts	160.00	1,440.00
3.05	Metal studs, 75mm x 3.0m, 0.6mm thk	30.00	lgts	160.00	4,800.00
3.06	Baseboards (same as existing)	15.20	l.m.	150.00	43,950.00
3.07	Miscellaneous and consumables	1.00	lot	6,500.00	6,500.00
3.08	Labor and equipment	1.00	lot	30,201.50	30,201.50
<b>4.00</b>	<b>Repair of Pantry</b>				
4.01	Undercountertop raised flooring	1.00	lot	905.00	905.00
4.02	Granite countertop and backsplash, 3.00m TL x 0.60m W x 0.10m H	1.00	lot	25,960.00	25,960.00
4.03	Countertop wall, 600 x 300mm wall tiles	2.10	sq.m.	1,120.00	2,352.00
4.04	Cupboard and undercounter cabinet: High pressure laminates on marine plywood; wood grain finish on exterior, white on interior	1.00	lot	28,890.00	28,890.00
4.05	S/s kitchen sink, complete with s/s sink faucet and plumbing accessories	1.00	set	5,670.00	5,670.00
4.06	T304 s/s grease trap 5 gal/min capacity, complete with plumbing accessories	1.00	unit	4,260.00	4,260.00
4.07	Replacement of floor vinyl tiles: vinyl planks, 2mm thk wood grain finish	11.90	sq.m.	830.00	9,877.00
4.08	Labor and equipment	1.00	lot	24,930.00	24,930.00
<b>5.00</b>	<b>Doors</b>				
5.01	Flush doors and jambs	2.00	sets	6,200.00	12,400.00
5.02	High pressure laminates, 1.20 x 2.40m, wood grain finish	4.00	pcs	2,000.00	8,000.00
5.03	Door hardware and accessories	2.00	sets	Owner-supplied materials	
5.04	Labor and equipment	1.00	lot	6,000.00	6,000.00
<b>6.00</b>	<b>Miscellaneous Architectural Works</b>				
	Acccent Wood Panel:				
6.01	Marine plywoods, 4' x 8' x 18mm	3.00	pcs	1,600.00	4,800.00
6.02	High pressure laminates, 4' x 8', wood grain finish	3.00	pcs	2,000.00	6,000.00
6.03	Edge band, 22 x 2.0mm, wood grain finish	15.00	l.m.	40.00	600.00
6.04	Column corner guards, 8'	2.00	lgts	150.00	300.00
6.05	Miscellaneous and consumables	1.00	lot	1,150.00	1,150.00
6.06	Labor and equipment	1.00	lot	4,280.00	4,280.00
<b>7.00</b>	<b>Painting/Repainting and Finishing Works</b>				
7.01	Rubberized floor paint on flooring, complete with crack repair and puttying	4.80	sq.m.	Owner-supplied materials	
7.02	Semi-gloss latex on fiber cement board Interior masonry finish, including window edges	399.90	sq.m.	Owner-supplied materials	
7.03	Semi-gloss/flat latex on ceiling	235.10	sq.m.	Owner-supplied materials	
7.04	Quick-drying enamel on wood and metal finishes	93.60	sq.m.	Owner-supplied materials	
7.05	Repair/restoration/refinishing of wood parquet flooring	187.00	sq.m.	370.00	69,190.00
7.06	Labor and equipment	1.00	lot	132,060.00	132,060.00
	<b>Subtotal (Civil/Architectural Works)</b>				<b>627,014.50</b>
<b>B</b>	<b>ELECTRICAL WORKS</b>				
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	40 mm Φ IMC pipe (submit technical data sheet)	5.00	pcs	2,150.00	10,750.00
1.02	25 mm Φ PVC pipe (submit technical data sheet)	25.00	pcs	210.00	5,250.00
1.03	20 mm Φ PVC pipe (submit technical data sheet)	125.00	pcs	141.00	17,625.00

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
1.04	15 mm $\Phi$ Flexible Metallic Tubing	50.00	lm	150.00	7,500.00
1.05	4" x 4" Octagonal Junction box (metal) ga.16	90.00	pcs	57.00	5,130.00
1.06	2" x 4" Utility box (metal) ga.16	70.00	pcs	45.00	3,150.00
1.07	metal square box ga. 16	10.00	pcs	65.00	650.00
1.08	20 mm $\Phi$ PVC male adaptor w/ locknut	350.00	pcs	15.00	5,250.00
1.09	25 mm $\Phi$ PVC male adaptor w/ locknut	25.00	pcs	25.00	625.00
1.10	25 mm $\Phi$ Two Hole EMT Clamp	75.00	pcs	24.00	1,800.00
1.11	20 mm $\Phi$ Two Hole EMT Clamp	350.00	pcs	19.50	6,825.00
1.12	Unistrut channel 2M	9.00	pcs	2,785.00	25,065.00
1.13	Strut channel Clamp 32mm	150.00	pcs	79.00	11,850.00
1.14	Full threaded Rod 3/8 x 3M	10.00	pcs	1,780.00	17,800.00
1.15	Nuts and washers 3/8	150.00	set	125.50	18,825.00
1.16	Grip Anchor 3/8	8.00	box	985.00	7,880.00
1.17	Labor and equipment	1.00	lot	43,792.50	43,792.50
<b>2.0</b>	<b>Wires and Cable (submit technical data sheet)</b>				-
2.01	3.5 sqmm THHN Stranded Wire 150m/box	11.00	box	5,250.00	57,750.00
2.02	5.5sqmm THHN Stranded Wire 150m/box	2.00	box	8,770.00	17,540.00
2.03	8.0 sqmm THHN Stranded Wire 100m/box	3.00	box	6,697.00	20,091.00
2.04	50.0 sqmm THHN Stranded Wire	50.00	lm	347.00	17,350.00
2.05	Labor and equipment	1.00	lot	33,819.30	33,819.30
<b>3.0</b>	<b>Wiring Devices (submit technical data sheet)</b>				-
3.01	One-Gang Single Switch Wide Series	4.00	set	198.00	792.00
3.02	Two-Gang Single Switch Wide Series	6.00	set	284.00	1,704.00
3.03	Three-Gang Single Switch Wide Series	3.00	set	332.00	996.00
3.04	Two-Gang Three Way Switch Wide Series	2.00	set	352.00	704.00
3.05	One-Gang Convenience Outlet Wide Series	16.00	set	198.00	3,168.00
3.06	Duplex Convenience Outlet Wide Series	33.00	set	430.00	14,190.00
3.07	GFCI Outlet	2.00	set	2,500.00	5,000.00
3.08	Aircon Outlet	2.00	set	345.00	690.00
3.09	Labor and equipment	1.00	lot	8,173.20	8,173.20
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet)</b>				-
4.01	Power Panel 2 Circuit Breakers (Bolt-On Miniature Type)	1.00	assy	133,000.00	133,000.00
	Main: 150AT,3P, 240 Volts, 60Hz, 25 KAIC,250 AF				-
	Branches:				-
	4-50AT 3P,1-32AT 2P, 15-20AT 2P, 240 Volts, 60 Hz,MCB				-
	Nema 3R Safety Switch - ACU				
4.02	50AT, 3P, 240 Volts, 60Hz,10 KAIC,MCB, in NEMA 3R Enclosure	4.00	assy	1,550.00	6,200.00
4.03	40AT, 2P, 240 Volts, 60Hz,10 KAIC,MCB in NEMA 3R Enclosure	2.00	assy	1,299.00	2,598.00
4.04	Labor and equipment	1.00	lot	42,539.40	42,539.40
<b>5.0</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet)</b>				-
5.01	9Watts LED Slim Type Recessed Downlight (DL)	22.00	set	880.00	19,360.00
5.02	12Watts LED Slim Type Recessed Downlight (DL)	65.00	set	1,099.00	71,435.00
5.03	LED Cove Lights /Strip Lights 12 volts Warm White	30.00	lm	300.00	9,000.00
5.04	LED Cove Lights /Strip Lights 12 volts Blue	20.00	lm	300.00	6,000.00
5.05	200Watts LED Strip Lights Driver	2.00	set	1,350.00	2,700.00
5.06	LED Emergency Light Dual Optics 2x 1 Watts	10.00	pcs	2,000.00	20,000.00
5.07	Exhaust Fan Wall Mounted 10"	2.00	lm	1,900.00	3,800.00
5.08	9Watts LED Slim Type Recessed Downlight (DL)[Spare]	10.00	set	880.00	8,800.00
5.09	12Watts LED Slim Type Recessed Downlight (DL) [Spare]	10.00	set	1,199.00	11,990.00
5.12	200Watts LED Strip Lights Driver [spare]	2.00	set	1,350.00	2,700.00
5.13	Labor and equipment	1.00	lot	39,688.50	39,688.50
<b>6.0</b>	<b>Miscellaneous</b>				-
6.01	Electrical Tape	25.00	pcs	65.00	1,625.00
6.02	G.I. pull wire	8.00	kgs	75.00	600.00
6.03	butane gas	3.00	pcs	120.00	360.00

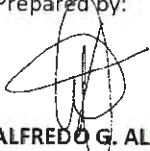


Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
6.04	hacksaw blade	2.00	pcs	115.00	230.00
6.05	1" Black Screw	3.00	box	250.00	750.00
6.06	# 6 Plastic Tox	3.00	box	150.00	450.00
6.07	Drill Bit	3.00	pcs	150.00	450.00
6.08	4" Concrete Cutting Disc	2.00	pcs	750.00	1,500.00
6.09	Labor and equipment	1.00	lot	1,789.50	1,789.50
<b>7.0</b>	<b>Testing and Commissioning</b>				
7.01	Testing and Commissioning	1.00	lot	30,000.00	30,000.00
	<b>Subtotal (Electrical Works)</b>				<b>789,300.40</b>
	<b>TOTAL DIRECT COST</b>				<b>3,238,258.30</b>
	<b>INDIRECT COST</b>				
	OCM				467,738.75
	Contractor's profit				311,825.83
	VAT				482,138.75
	<b>TOTAL PROJECT COST</b>				<b>4,499,961.62</b>

Architectural Works

Prepared by:



**ALFREDO G. ALARCON, JR.**  
Civil Engineer, FMSS

Electrical Works

Prepared by:



**MARK ANTHONY Q. AMUL**  
Electrical Engineer, FMSS

Recommended by:



**JOHN P. NATIVIDAD**  
Director, FMSS

# **DETAILED UNIT PRICE ANALYSIS (DUPA)**

**NAME OF PROJECT:**

**LOCATION:**

Item No. / Description

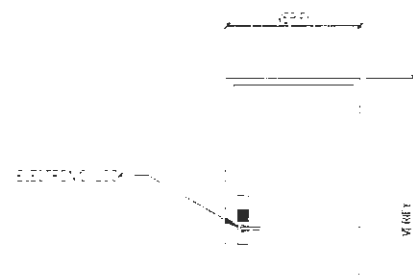
Unit of Measurement

Output per hour

	<b>Designation</b>	<b>No. of Person</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount</b>
A.	Labor				
	Sub-Total for A				
	<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Rental Rate</b>	<b>Amount</b>
B.	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
	<b>Name and Specifications</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount</b>
F.	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				5% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

Prepared / Submitted by:

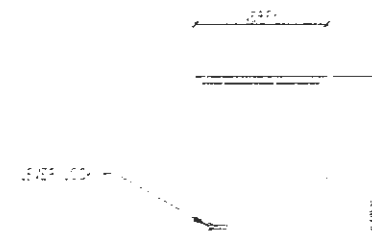
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Signature Over Printed Name  
Company



CODE

TYPE: TANGUILE PANEL DOOR  
 FINISH: WOOD STAIN FINISH  
 JAMB: 2" X 5" HARDWOOD  
 LOCK: HEAVY DUTY ELECTRONIC LOCK  
 HINGES: 3 1/2" X 3 1/2" ARCHITECTURAL GRADE HINGES  
 OTHER: HEAVY-DUTY AUTOMATIC DOOR CLOSER  
 LOCATION: OFFICE OF THE PRESIDENT

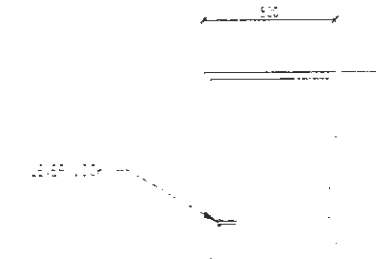
REQ'D SETS: 1 SET



CODE

TYPE: TANGUILE PANEL DOOR  
 FINISH: WOOD STAIN FINISH  
 JAMB: 2" X 5" HARDWOOD  
 LOCK: LEVER LOCK GRADE 1 (HEAVY DUTY)  
 HINGES: 3 1/2" X 3 1/2" ARCHITECTURAL GRADE HINGES  
 OTHER: HEAVY-DUTY AUTOMATIC DOOR CLOSER  
 LOCATION: 2ND FLOOR CONFERENCE ROOM, PANTRY & FIRE EXIT

REQ'D SETS: 4 SETS



CODE

TYPE: SWING FLUSH DOOR  
 FINISH: HIGH-PRESSURE LAMINATE WOOD GRAIN FINISH  
 JAMB: 2" X 4" HARDWOOD  
 LOCK: LEVER LOCK GRADE 1 (HEAVY DUTY)  
 HINGES: 3 1/2" X 3 1/2" ARCHITECTURAL GRADE HINGES  
 OTHER: HEAVY-DUTY AUTOMATIC DOOR CLOSER  
 LOCATION: OVPA FOCUS ROOM AND FILING ROOM

REQ'D SETS: 2 SETS

## DOOR SCHEDULE



Republic of the Philippines  
 PHILIPPINE NORMAL UNIVERSITY  
 Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND RENOVATION OF OFFICE  
 OF THE UNIVERSITY PRESIDENT  
 AND VICE PRESIDENT FOR  
 ACADEMICS

PREPARED BY:

ALFREDO G. ALARCON JR.  
 CIVIL ENGINEER, FMSS

PRC NUMBER: 5940  
 PTR NUMBER: 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
 DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
 VICE-PRESIDENT FOR FINANCE  
 AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
 PRESIDENT

DATE:

MARCH 28, 2023

CAD BY:

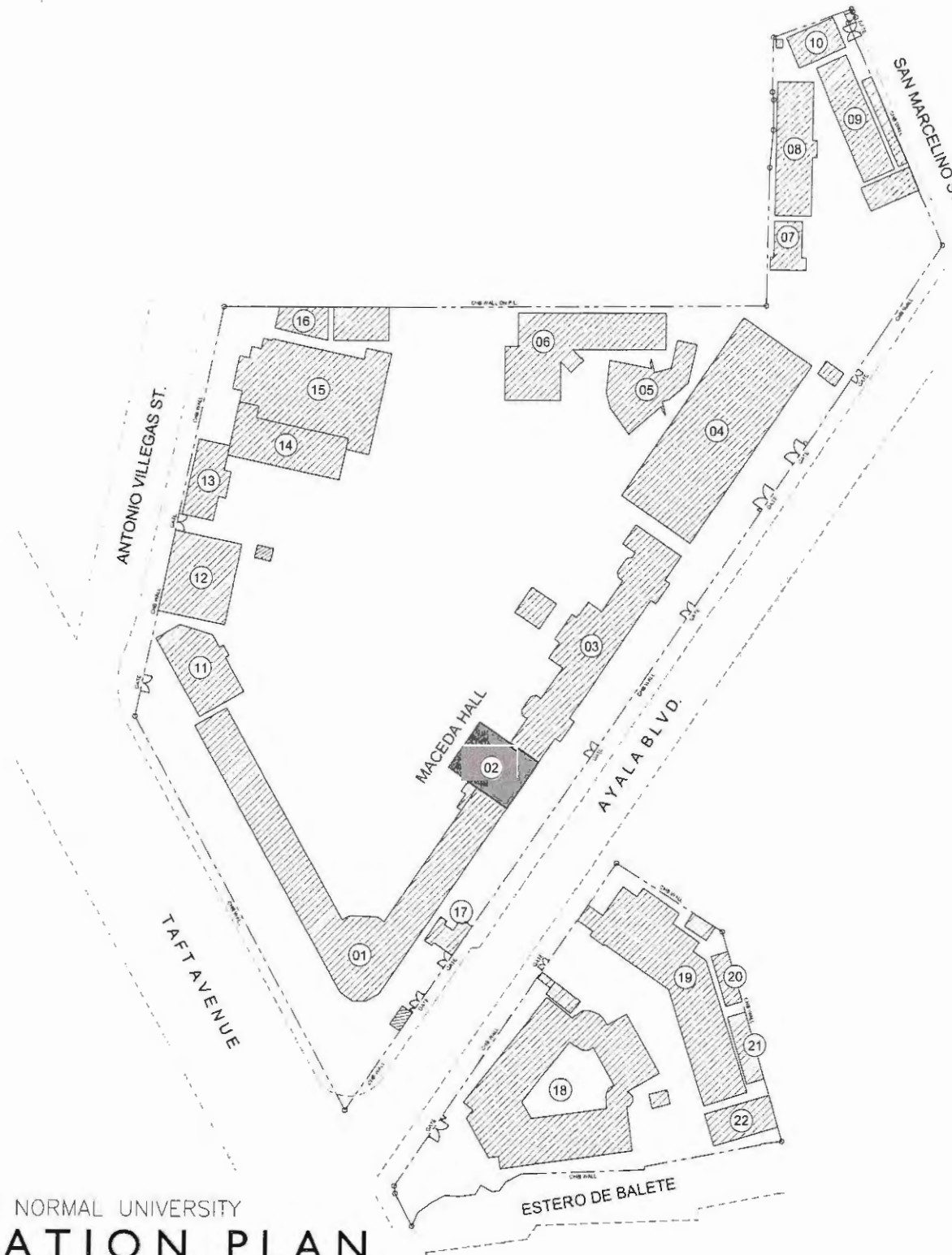
JBC

SHEET CONTENTS:

DOOR SCHEDULE

SHEET NO.:

A-08



PHILIPPINE NORMAL UNIVERSITY	
BUILDINGS:	
SYMBOL	DESCRIPTION
01	GERONIMA T. PECSON HALL
02	MACEDA HALL
03	FACULTY CENTER
04	EDILBERTO P. DAGOT HALL
05	CHAPEL
06	BONIFACIO P. SIBAYAN HALL
07	MEDICAL AND DENTAL CLINIC
08	OLD ITL (ELEMENTARY)
09	OLD ITL (HIGH SCHOOL)
10	MATERIAL RECOVERY FACILITY
11	PEDRO T. ORATA HALL
12	FINANCE BUILDING
13	GUSALI NG WIKA BUILDING
14	CULTURE AND SPORTS BUILDING
15	GYMNASIUM
16	IPEHRDS FACULTY BUILDING
17	SECURITY SERVICES AND SAFETY MANAGEMENT UNIT
18	NORMAL HALL
19	HRD BUILDING
20	ANNEX CLASSROOM - A
21	ANNEX CLASSROOM - B
22	HOSTEL

LOCATION PLAN	
LEGEND:	
SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	BOUNDARY LINE
■	BUILDINGS

PHILIPPINE NORMAL UNIVERSITY  
1  
A-01 NTS  
**LOCATION PLAN**



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:  
**REPAIR AND RENOVATION OF OFFICE  
OF THE UNIVERSITY PRESIDENT  
AND VICE PRESIDENT FOR  
ACADEMICS**

PREPARED BY:  
**ALFREDO G. ALARCON JR.**  
CIVIL ENGINEER, FMSS  
PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:  
**JOHN P. NATIVIDAD**  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
**JOSE M. OCAMPO JR., PH.D.**  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

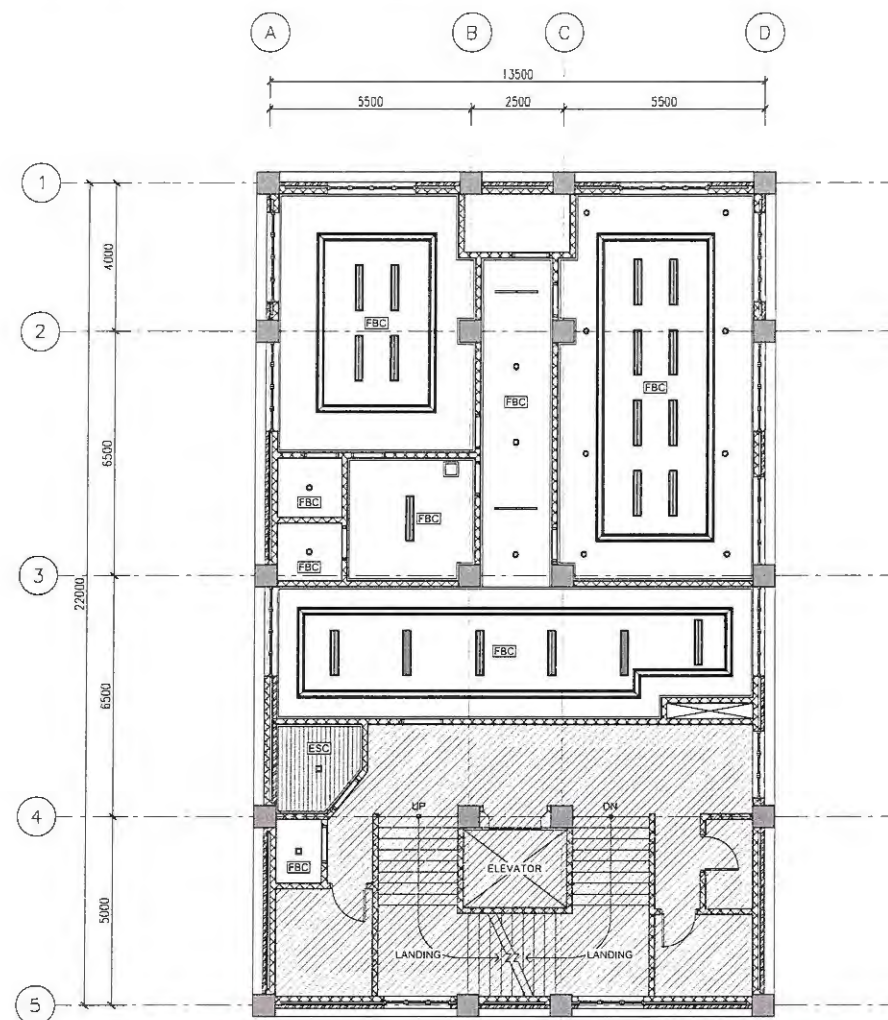
APPROVED BY:  
**BERT T. UGA, PH.D.**  
PRESIDENT

DATE:  
MARCH 28, 2023  
CAD BY:  
JBC

SHEET CONTENTS:  
**LOCATION PLAN**

SHEET NO.:  
**A-01**





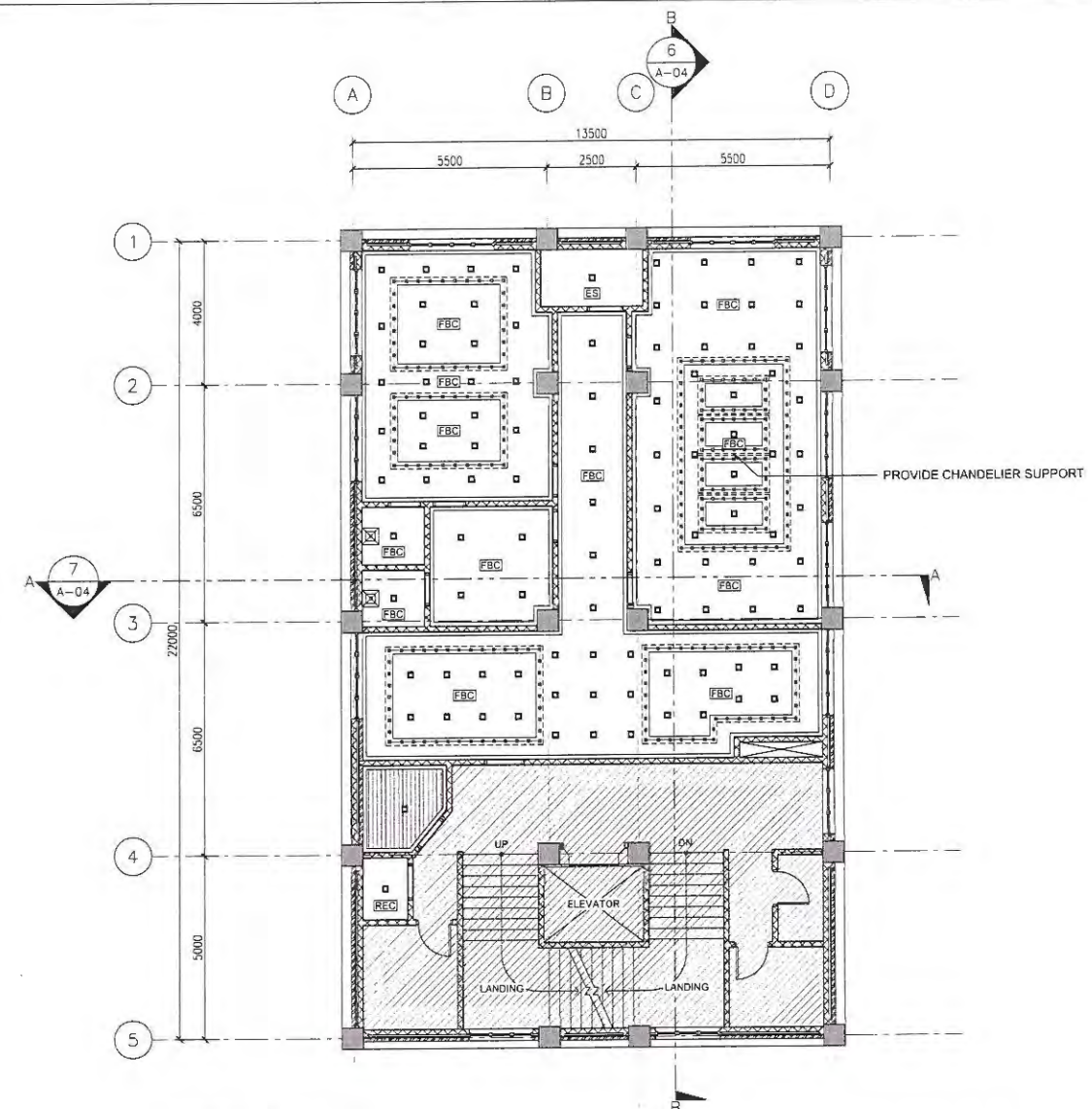
MACEDA HALL

4

## EXISTING REFLECTED CEILING PLAN

A-03 NTS

LEGEND	
LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	RECESSED ROUND LED DAYLIGHT
	FLUORESCENT TUBE LIGHT
	2 FLUORESCENT TUBE LIGHT
CEILING FINISH	
SYMBOL	DESCRIPTION
FBC	EXISTING FICEM BOARD CEILING
ESC	EXISTING SPANDREL CEILING
VENTILATION LEGEND	
SYMBOL	DESCRIPTION
	EXHAUST



MACEDA HALL

5

## PROPOSED REFLECTED CEILING PLAN

A-03 NTS

LEGEND	
LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	RECESSED SQUARE SMD LED DAYLIGHT
	LED STRIP LIGHTS
CEILING FINISH	
SYMBOL	DESCRIPTION
FBC	4.5mm THK FICEM BOARD ON LIGHT GAGE METAL FRAMING, WITH 1" x 4" CORNICE
REC	RETAIN EXISTING CEILING
VENTILATION LEGEND	
SYMBOL	DESCRIPTION
	EXHAUST FAN



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**REPAIR AND RENOVATION OF OFFICE  
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ACADEMICS**

PREPARED BY:  
**ALFREDO B. MARCON JR.**  
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PRC NUMBER 59405  
PTR NUMBER 0846420

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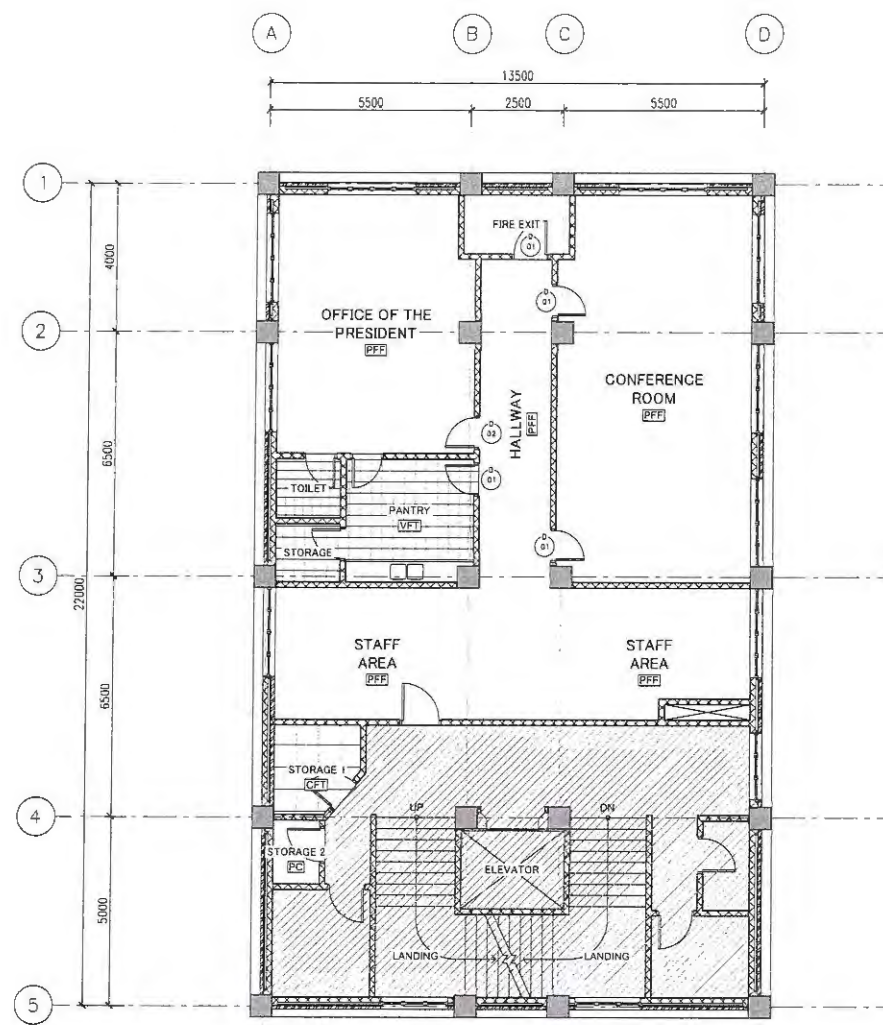
APPROVED BY:  
**BERT J. TUGA, PH.D.**  
PRESIDENT

DATE:  
MARCH 28, 2023  
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JBC

SHEET CONTENTS:  
**REFLECTED CEILING PLAN**

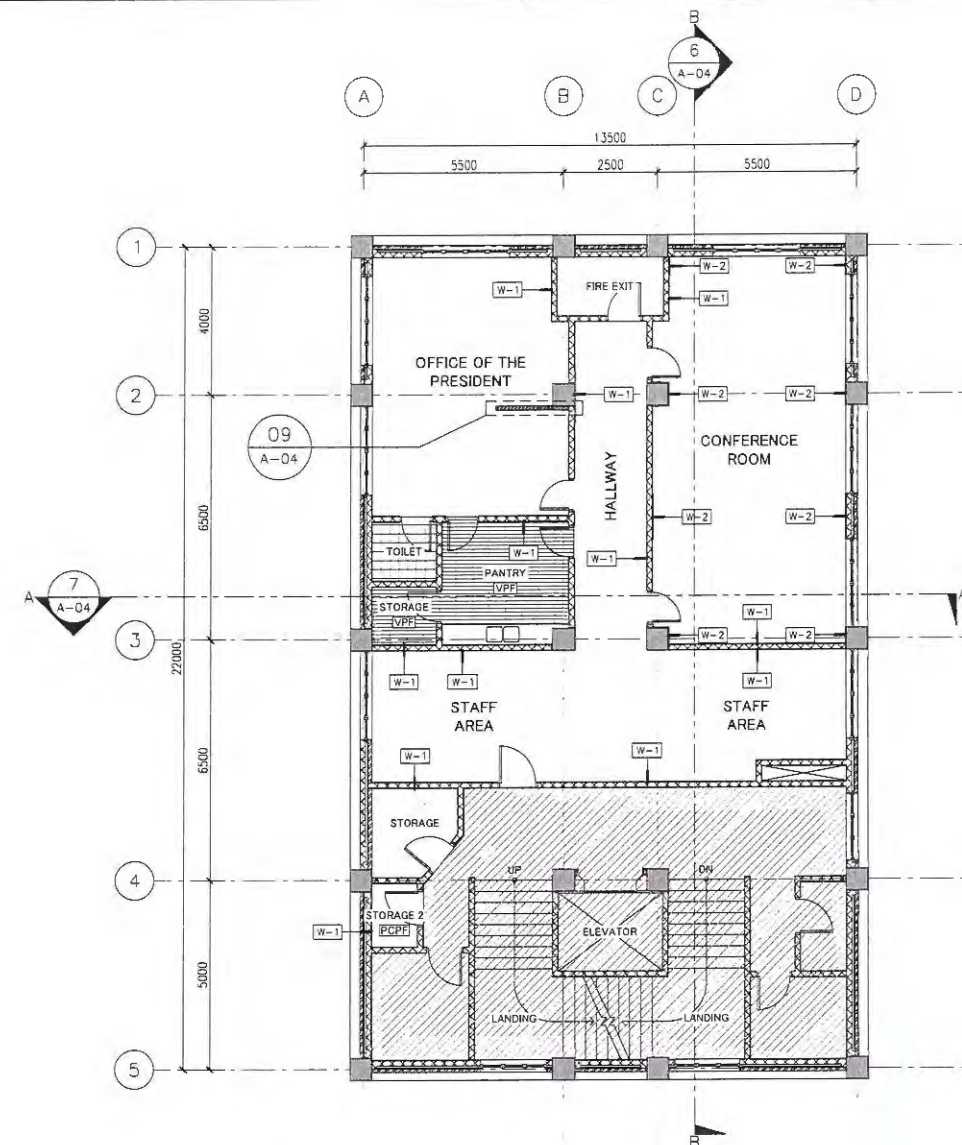
SHEET NO.:  
**A-03**





MACEDA HALL  
**2 EXISTING SECOND FLOOR PLAN**  
 A-02 NTS

LEGEND	
FLOOR FINISH	
SYMBOL	DESCRIPTION
PFF	EXISTING WOOD PARQUET FLOOR FINISH
VFT	EXISTING 300 x 300mm VINYL FLOOR TILE
CFT	EXISTING 600 x 600mm CERAMIC FLOOR TILE
PC	PLAIN CEMENT



MACEDA HALL  
**3 PROPOSED SECOND FLOOR PLAN**  
 A-02 NTS

LEGEND	
WALL FINISH	
SYMBOL	DESCRIPTION
W-1	SEMI-GLOSS LATEX PAINT FINISH
W-2	HIGH PRESSURE LAMINATE ON 3/4" THK MARINE PLYWOOD
FLOOR FINISH	
SYMBOL	DESCRIPTION
VPF	100 x 900mm VINYL PLANK FLOORING
PCPF	PLAIN CEMENT W/ PAINT FINISH ( TILE RED)



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 VICE-PRESIDENT FOR FINANCE  
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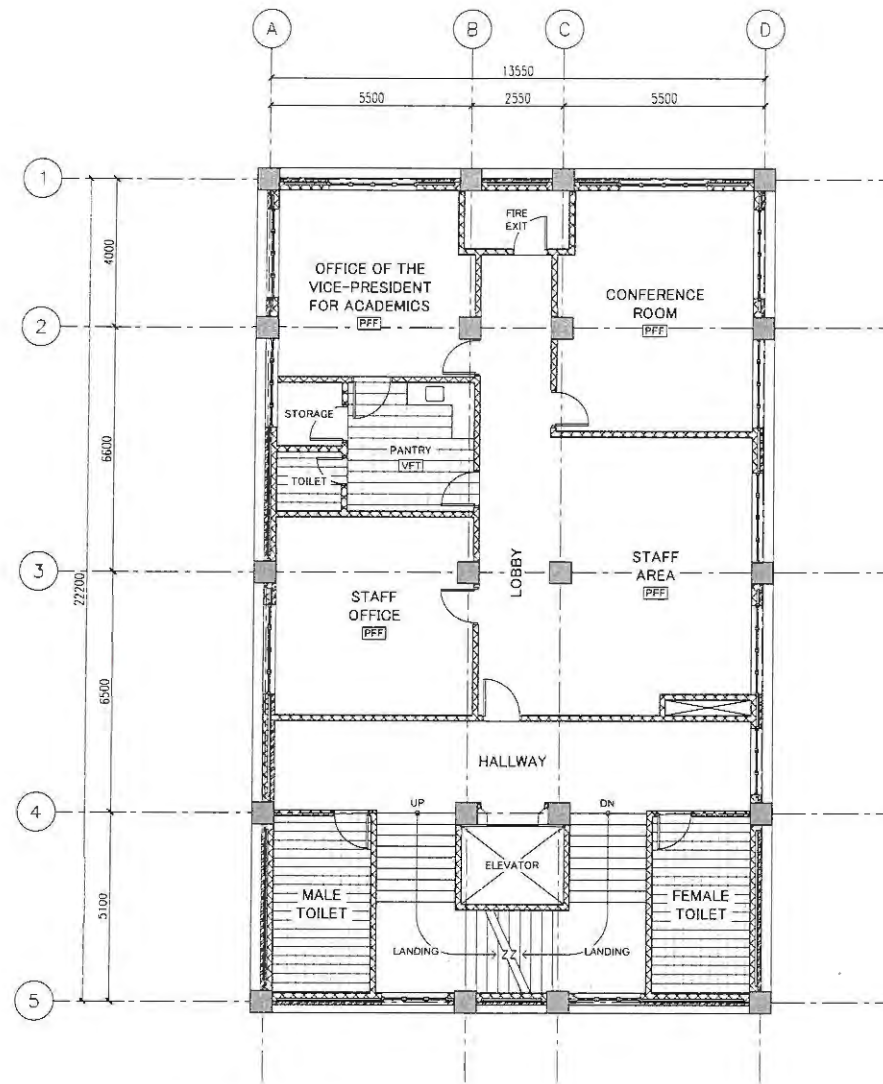
APPROVED BY:  
**BERNARD J. TUGA, PH.D.**  
 PRESIDENT

DATE:  
 MARCH 28, 2023  
 CAD BY:  
 JBC

SHEET CONTENTS:  
**FLOOR PLAN**

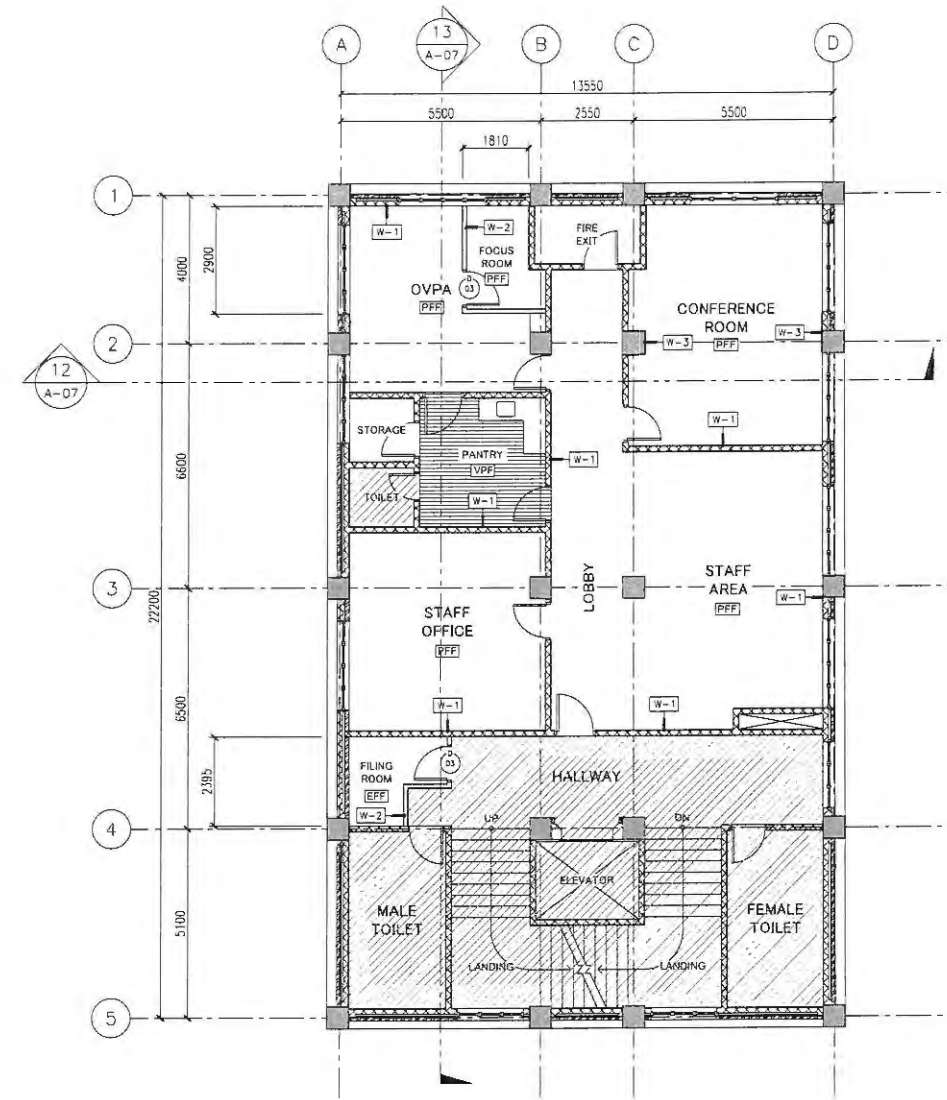
SHEET NO.:  
**A-02**





MACEDA BUILDING  
10  
A-05 NTS  
**EXISTING THIRD FLOOR PLAN**

LEGEND	
FLOOR FINISH	
SYMBOL	DESCRIPTION
PFF	EXISTING PARQUET FLOOR FINISH
VFT	EXISTING 300 x 300mm VINYL FLOOR TILE



MACEDA BUILDING  
11  
A-05 NTS  
**PROPOSED THIRD FLOOR PLAN**

LEGEND	
WALL FINISH	
SYMBOL	DESCRIPTION
W-1	SEMI-GLOSS LATEX PAINT FINISH
W-2	76mm STUD WALL PLUS 2 - 6mm THK FICEMBOARD
W-3	HIGH PRESSURE LAMINATE ON 3/4" THK MARINE PLYWOOD
FLOOR FINISH	
SYMBOL	DESCRIPTION
PFF	EXISTING PARQUET FLOOR FINISH (REPAIR / RESTORE)
VPF	100 x 900mm VINYL PLANK FLOORING
EFF	EXISTING FLOOR FINISH (REPAINT)



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CIVIL ENGINEER, FMSS  
PRC NUMBER 59405  
PTR NUMBER 0846420

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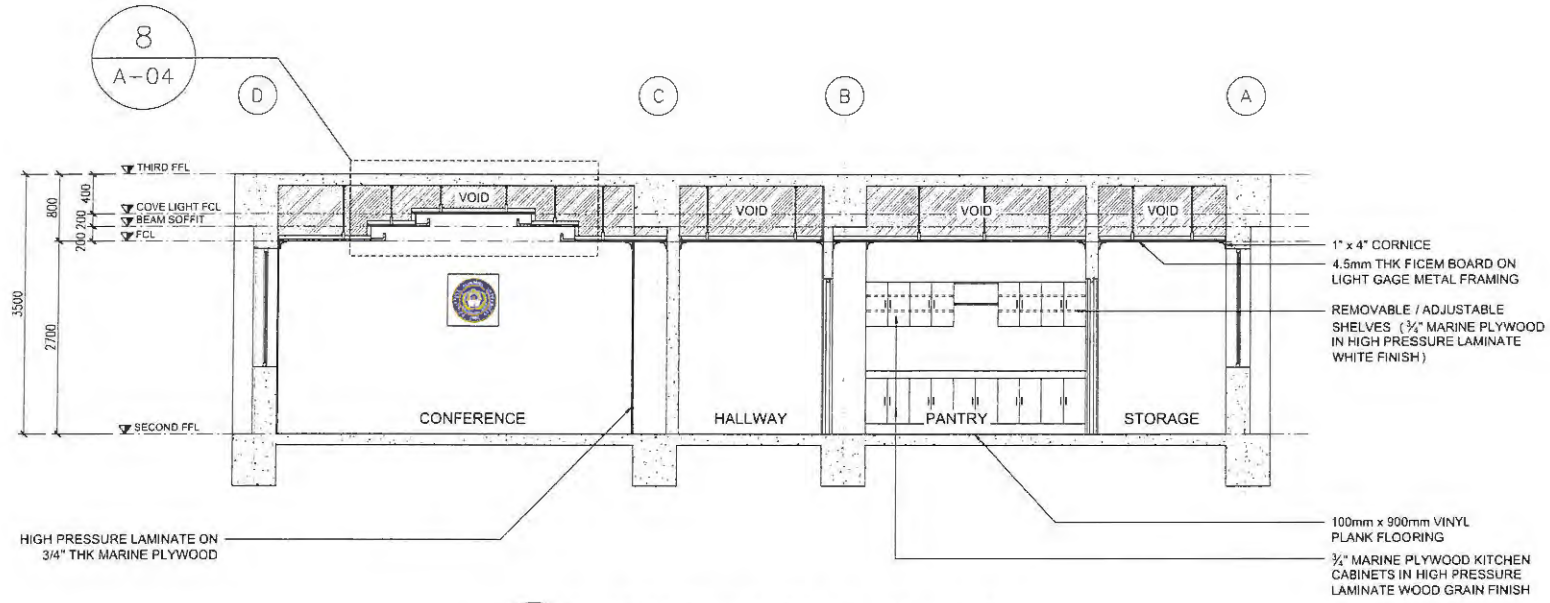
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PRESIDENT

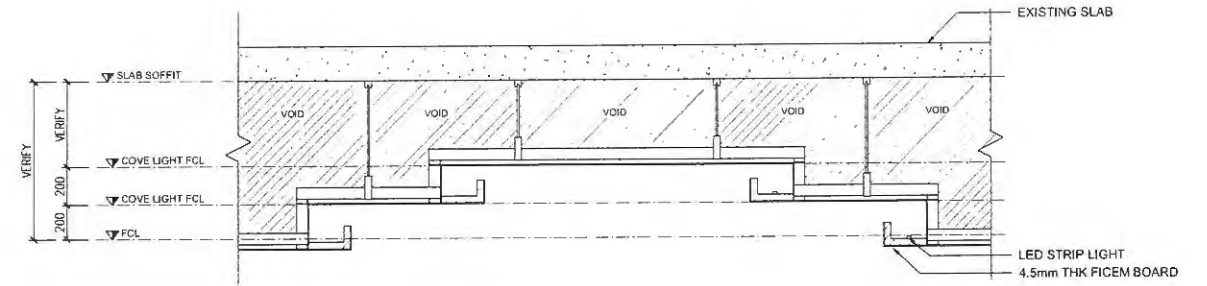
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MARCH 28, 2023  
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JBC

SHEET CONTENTS:  
**FLOOR PLAN**

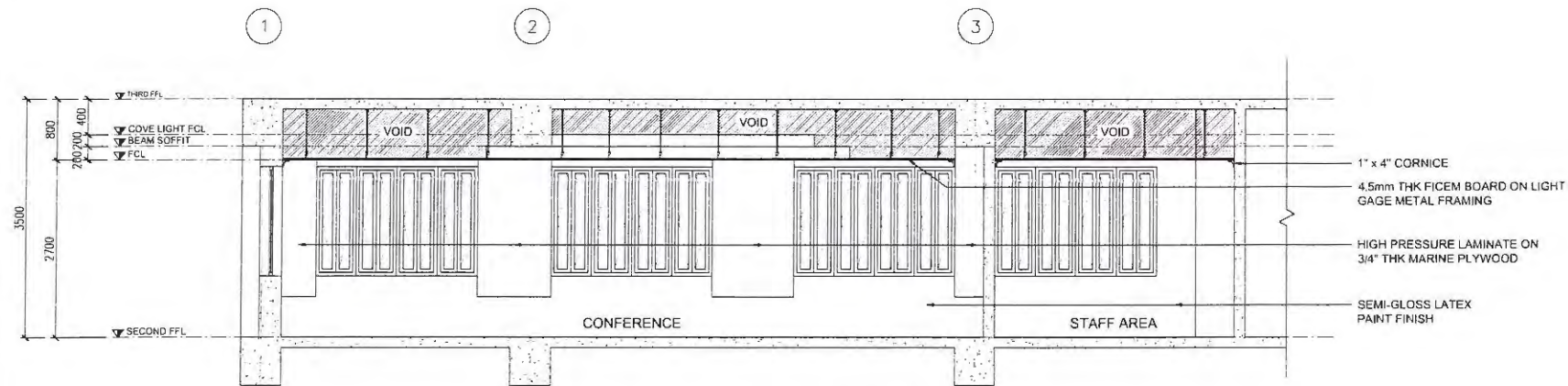
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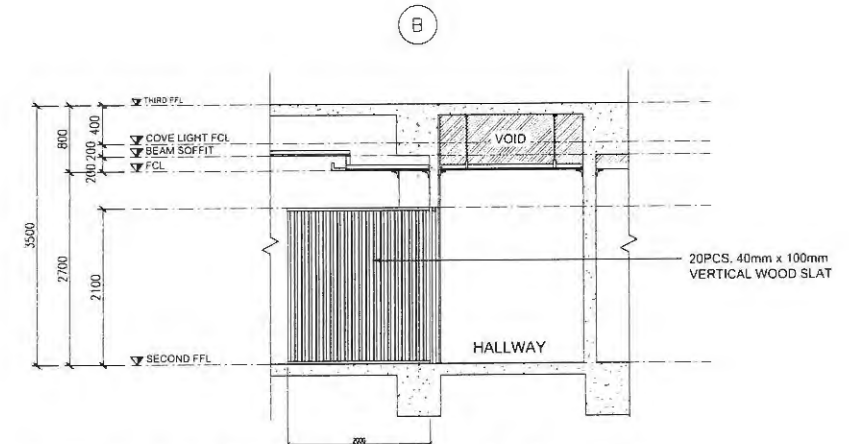
6 SECTION A - A  
A-04 NTS



8 BLOW-UP DETAIL  
A-04 NTS



7 SECTION B - B  
A-04 NTS



9 WOOD SLAT DETAIL  
A-04 NTS



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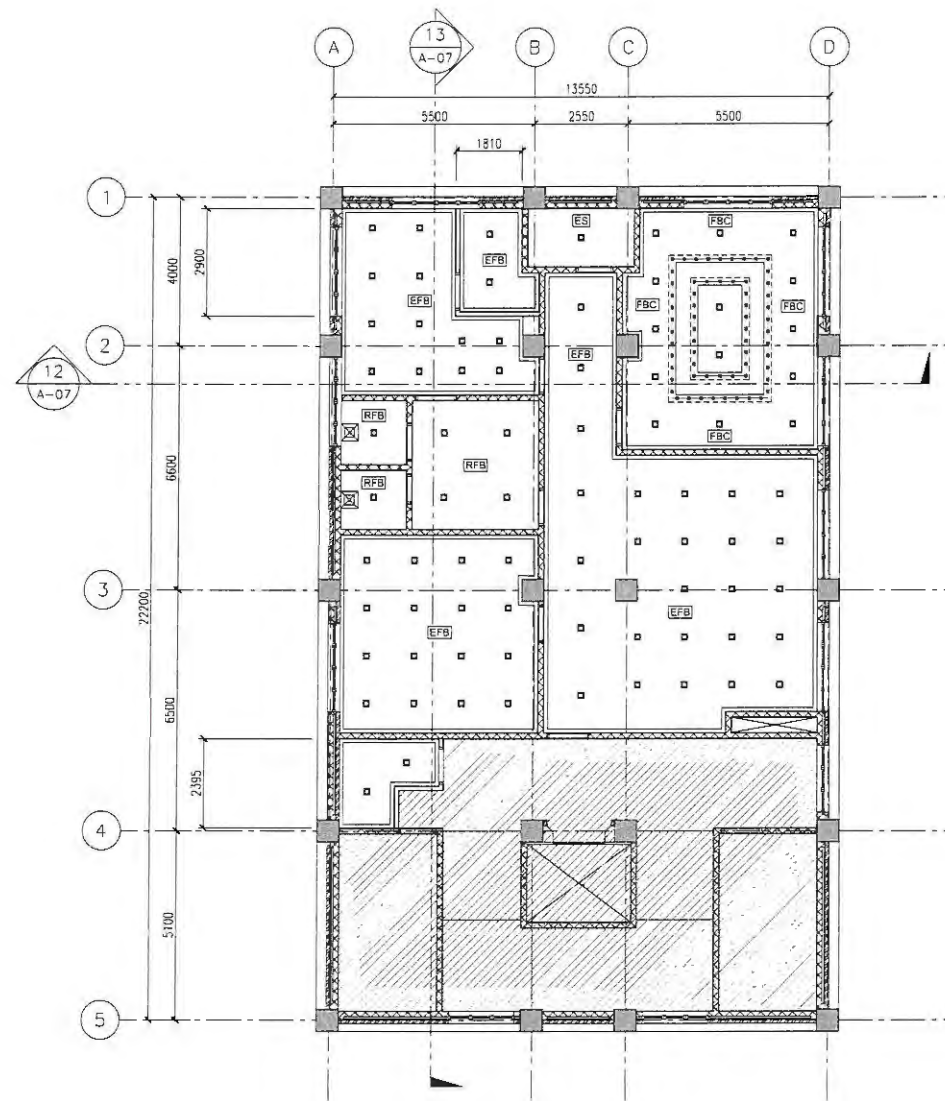
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BERNARD J. TUGA, PH.D.  
PRESIDENT

DATE:  
MARCH 28, 2023  
CAD BY:  
JBC

SHEET CONTENTS:  
SECTION  
DETAIL PLANS

SHEET NO.:  
A-04





LEGEND	
LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	RECESSED SQUARE SMD LED DAYLIGHT
	LED STRIP LIGHTS
CEILING FINISH	
SYMBOL	DESCRIPTION
FBC	4.5mm THK FICEM BOARD ON LIGHT GAGE METAL FRAMING, WITH 1" x 4" CORNICE
EFB	REPAINT EXISTING CEILING, INSTALL CORNICE
RFB	REPAINT EXISTING CEILING
ES	EXPOSED SLAB
VENTILATION LEGEND	
SYMBOL	DESCRIPTION
	EXHAUST FAN

MACEDA BUILDING  
 12  
 A-06 THIRD FLR REFLECTED CEILING PLAN  
 NTS



Republic of the Philippines  
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 REPAIR AND RENOVATION OF OFFICE  
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 PTR NUMBER 0846420

SUBMITTED BY:  
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 DIRECTOR, FMSS

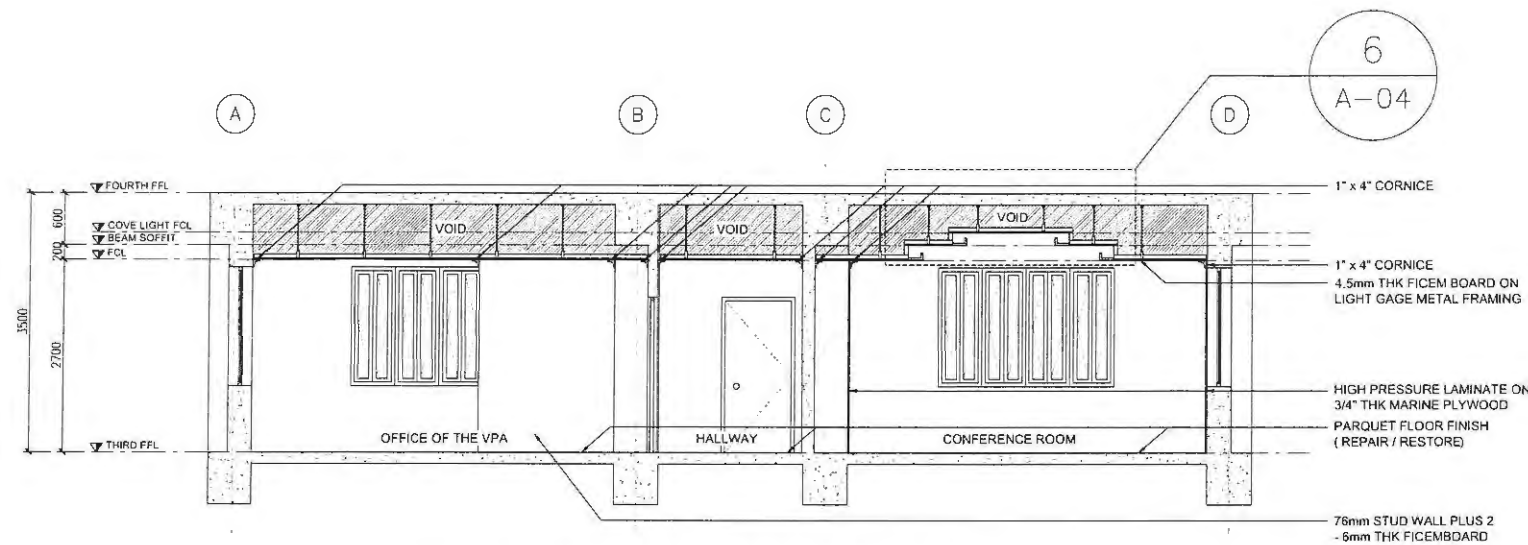
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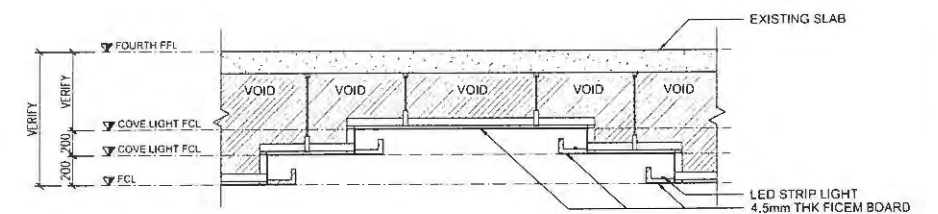
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 REFLECTED CEILING PLAN

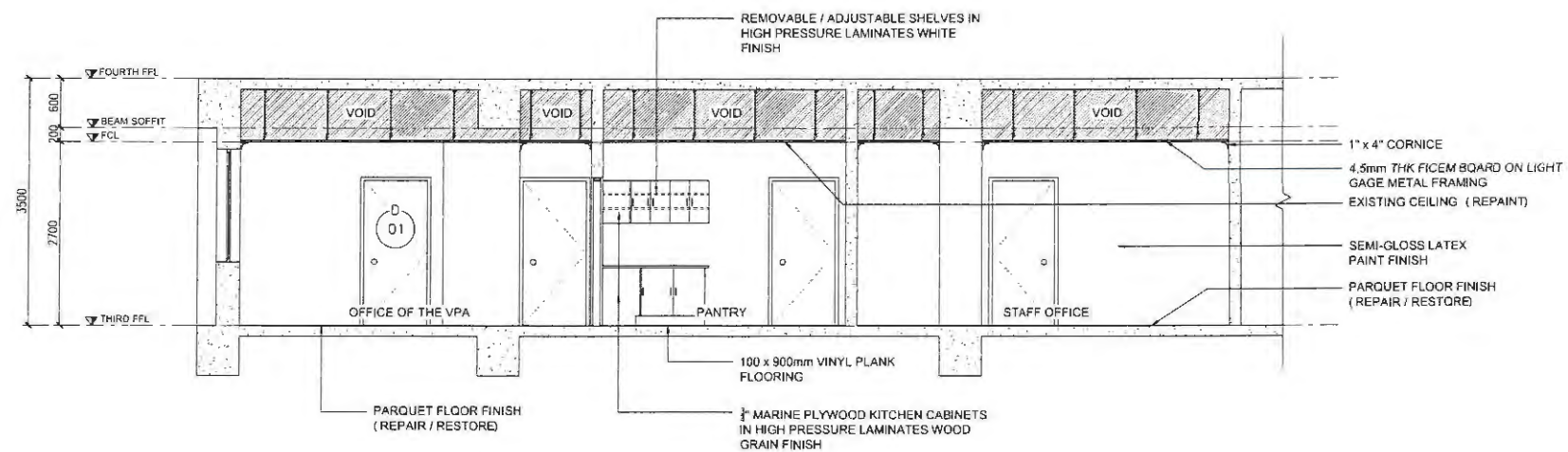
SHEET NO.:  
 A-06



13 CROSS SECTION  
A-04 NTS



15 BLOW-UP DETAIL  
A-04 NTS



14 LONGITUDINAL SECTION  
A-04 NTS



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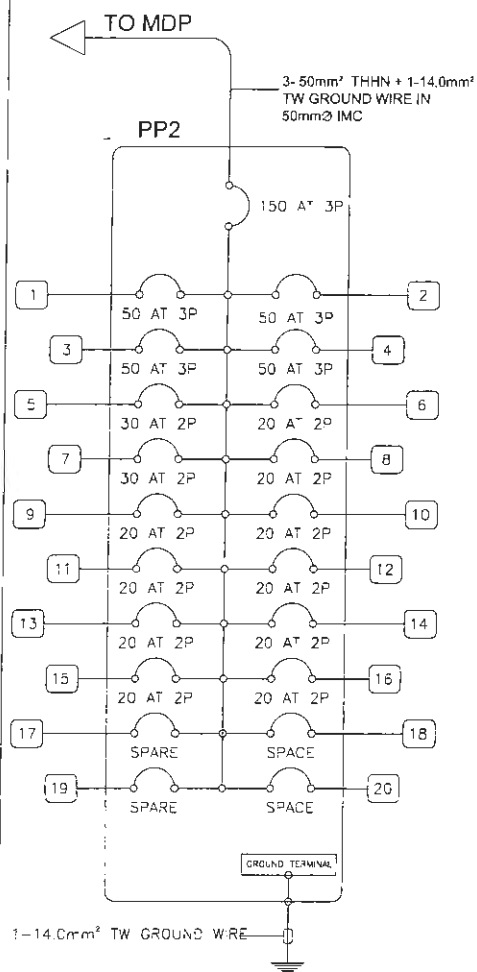
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BERT U. TUGA, PH.D.  
PRESIDENT

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MARCH 28, 2023  
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JBC

SHEET CONTENTS:  
SECTION  
DETAIL PLAN

SHEET NO.:  
A-07





CKT NO.	LOAD DESCRIPTION	NO. OF L.O.	NO. OF C.O.					VOLTS	VOLT AMP. RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S1	S2	S3	S3W			ABØ	BCØ	CAØ	3Ø	AT	P	AF	
1	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
2	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
3	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
4	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
5	2HP							230	2760	12				32	2P	63	2- 5.5mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
6	LIGHTING OUTLET	22	5	2	1	1	4	230	1100	5.87				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
7	2HP							230	2760			12		32	2P	63	2- 5.5mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
8	LIGHTING OUTLET	16	4			2		230	800			4.35		20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
9	CONVENIENCE OUTLET		10					230	1800		7.83			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
10	LIGHTING OUTLET	36	4	1			18	230	1800		8.70			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
11	CONVENIENCE OUTLET		7					230	1260	4.70				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
12	LIGHTING OUTLET	24	3		3	1		230	1200	5.87				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
13	CONVENIENCE OUTLET		8					230	1440			6.26		20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
14	CHANDELIER PROVISION							230	1000			4.35		20	2P	63	2- 5.5mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
15	CONVENIENCE OUTLET		8					230	1440		6.26			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
16	CHANDELIER PROVISION							230	1500		6.52			20	2P	63	2- 5.5mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
17	SPARE							230	1000	4.35					2P	63	
18	SPACE							230						20	2P	63	
19	SPARE							230	1000			4.35			2P	63	
20	SPACE							230							2P	63	
TOTAL		98	49	3	4	4	22		36500	32.78	29.30	31.30	68				

TOTAL FULL LOAD CURRENT @100% DF:  $[68 + (1.732 \times 32.785 + (.25 \times 17))] \times 1.0 = 129.02 \text{ AMPERES}$

FEEDER SIZE: 3-50mm² THHN + 1-14.0mm² TW GROUND WIRE @ 40 mm Ø IMC

PROTECTION: 1-150AT, 3P, 240V, 60 Hz, 25 KAIC, 250 AF MOLDED CASE MAIN CIRCUIT BREAKER

NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON AND MINIATURE TYPE



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MARK ANTHONY Q. AMUL  
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PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:  
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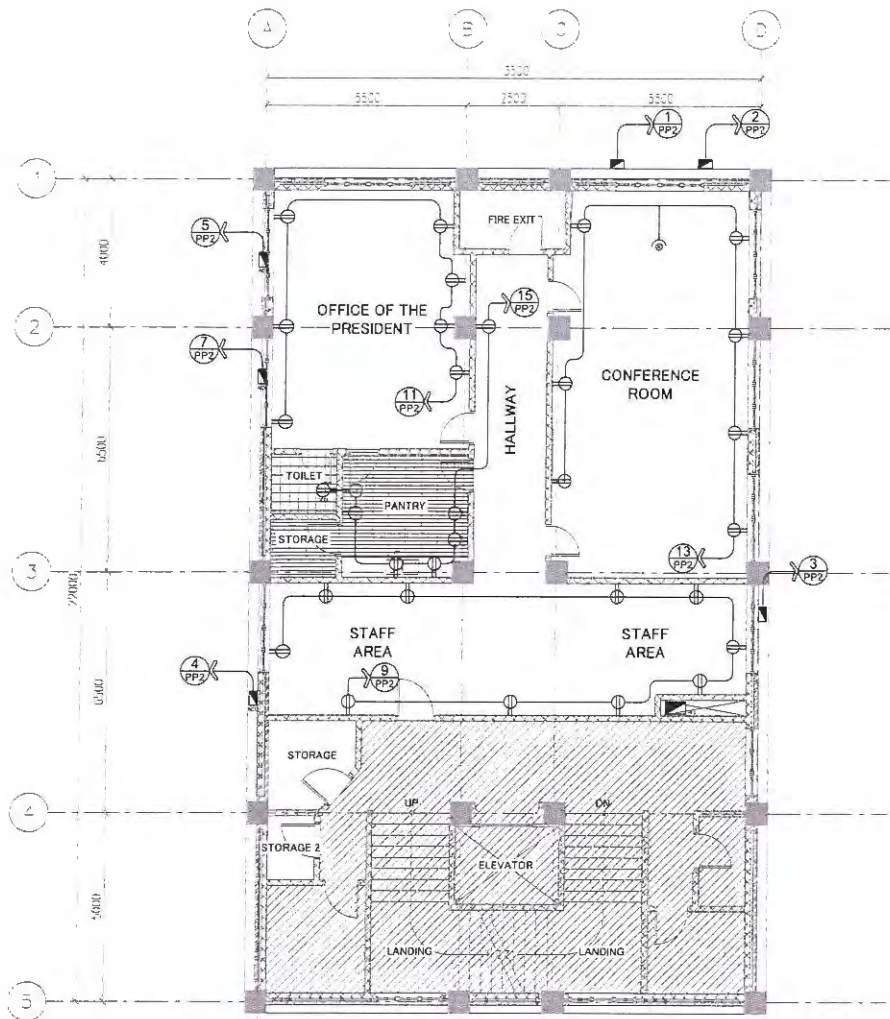
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PRESIDENT

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JBC

SHEET CONTENTS:  
SCHEDULE OF LOADS  
RISER DIAGRAM

SHEET NO.:  
E-01



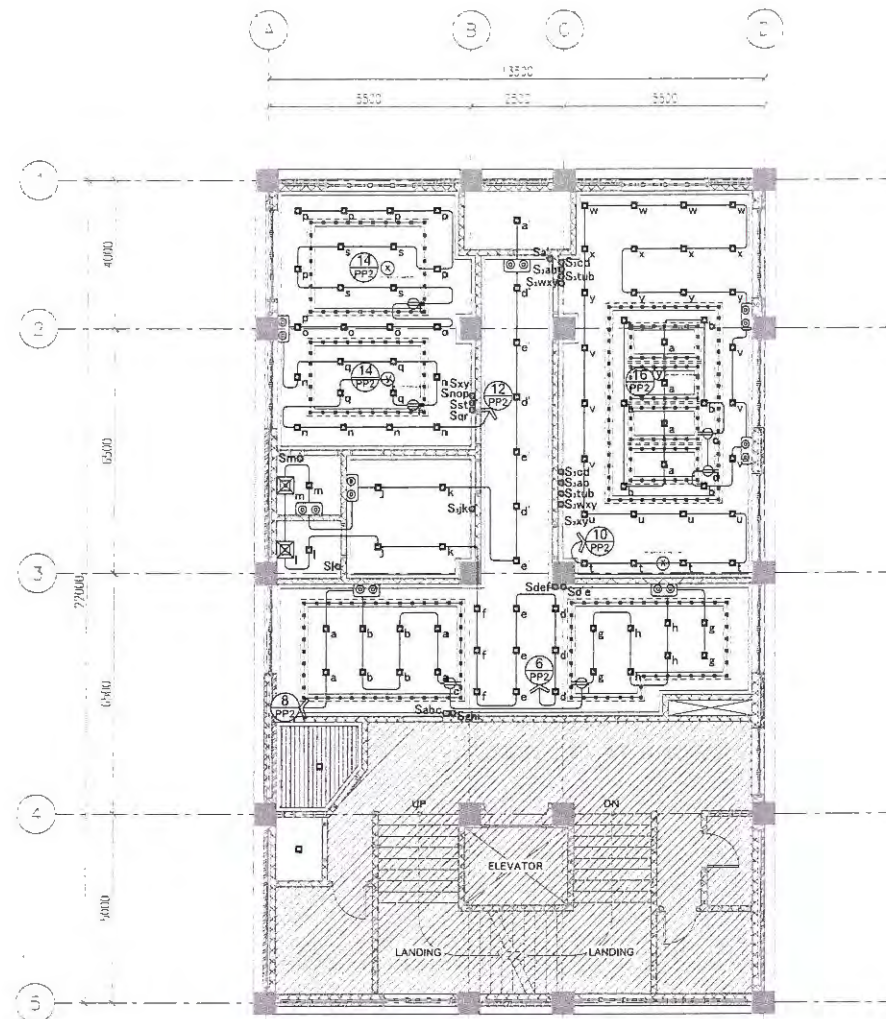


MACEDA HALL SECOND FLOOR

## PROPOSED POWER LAYOUT

1  
E-02 NTS

LEGEND	
SYMBOL	DESCRIPTION
	GFCI OUTLET
	DUPLEX COUNTER TOP OUTLET
	DUPLEX CONVENIENCE OUTLET
	PROJECTOR OUTLET
	AIR CONDITIONING OUTLET
	CHANDELIER PROVISION



MACEDA HALL SECOND FLOOR

## PROPOSED LIGHTING LAYOUT

2  
E-02 NTS

LEGEND	
SYMBOL	DESCRIPTION
Sa	ONE-GANG SWITCH
Sab	TWO-GANG SWITCH
Sabc	THREE-GANG SWITCH
Ssab	3-WAY TWO-GANG SWITCH
Ssabc	3-WAY THREE-GANG SWITCH
	RECESSED SQUARE SMD LED DAYLIGHT 9 WATTS
	RECESSED SQUARE SMD LED DAYLIGHT 12 WATTS
	LED STRIP LIGHT
	EMERGENCY LIGHT
	EXHAUST FAN

### GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:
 

LIGHTING CONTROL SWITCHES	1.40 M. ABOVE FFL. & 150 MM FROM JAMBS
CONVENIENCE OUTLET	0.30 M ABOVE FLOOR FINISH
COUNTER HEIGHT OUTLET	0.30 M ABOVE COUNTER FINISH
AIRCON OUTLET	VERIFY FROM ENGINEER
PANEL BOARD	1.40 M ABOVE FLOOR FINISH
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.



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VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

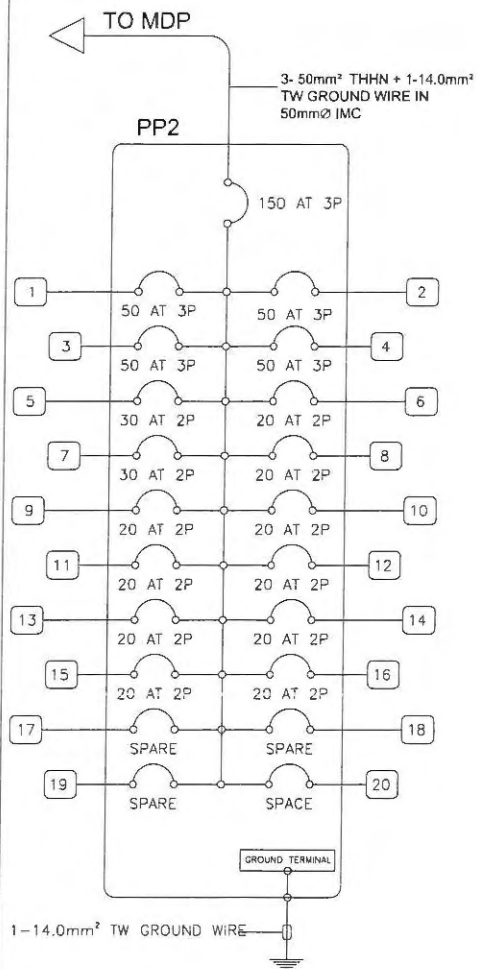
APPROVED BY:  
BERT J. TUGA, PH.D.  
PRESIDENT

DATE:  
MARCH 28, 2023  
CAD BY:  
JBC

SHEET CONTENTS:  
GENERAL NOTES  
LEGEND  
POWER LAYOUT  
LIGHTING LAYOUT

SHEET NO.:  
E-02





PP3																	
CKT NO.	LOAD DESCRIPTION	NO. OF L.O.	NO. OF C.O.					VOLTS	VOLT AMP. RATING	AMPERE LOAD				OVER CURRENT PROTECTION			SIZE OF WIRE, GROUND WIRES & CONDUIT
				S1	S2	S3	S3W			ABØ	BCØ	CAØ	3Ø	AT	P	AF	
1	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
2	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
3	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
4	5 TONNER ACU							230	3910				17	50	3P	63	3 - 8.0mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
5	1 HP ACU							230	1840	8				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
6	LIGHTING OUTLET	14	5	2	1		4	230	700	4.13				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
7	2 HP ACU							230	2760			12		32	2P	63	2- 5.5mm² THHN COPPER WIRE + 1 - 5.5mm² TW GROUND WIRE @ 25mm Ø uPVC CONDUIT
8	LIGHTING OUTLET	14	2	1		1		230	700			3.48		20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
9	CONVENIENCE OUTLET		9					230	1620		7.04			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
10	LIGHTING OUTLET	22	4		2	1		230	1100		5.65			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
11	CONVENIENCE OUTLET		6					230	1080	4.70				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
12	LIGHTING OUTLET	18	2	1	2			230	900	4.35				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
13	CONVENIENCE OUTLET		6					230	1080			4.70		20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
14	LIGHTING OUTLET	20	1		1	1		230	1000			4.13		20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
15	CONVENIENCE OUTLET		8					230	1440		6.26			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
16	SPARE							230	1500		6.52			20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
17	CONVENIENCE OUTLET		4					230	720	3.13				20	2P	63	2- 3.5mm² THHN COPPER WIRE + 1 - 3.5mm² TW GROUND WIRE @ 20mm Ø uPVC CONDUIT
18	SPARE							230	1000	4.35				20	2P	63	
19	SPARE							230	1000			4.35		20	2P	63	
20	SPACE														2P	63	
	TOTAL	88	47	4	6	3	4		34080	28.65	25.48	28.65	68				

TOTAL FULL LOAD CURRENT @100% DF:  $[68 + (1.732 \times 28.65 + (.25 \times 17))] \times 1.0 = 121.87$  AMPERES

FEEDER SIZE: 3-50mm<sup>2</sup> THHN + 1-14.0mm<sup>2</sup> TW GROUND WIRE @ 40 mmØ IMC

PROTECTION: 1-150AT, 3P, 240V, 60 Hz, 25 KAIC, 250 AF MOLDED CASE MAIN CIRCUIT BREAKER

NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT-ON AND MINIATURE TYPE



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:  
REPAIR AND RENOVATION OF OFFICE  
OF THE UNIVERSITY PRESIDENT  
AND VICE PRESIDENT FOR  
ACADEMICS

PREPARED BY:  
MARK ANTHONY C. AMUL  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74165  
PTR NUMBER MLA 0846421

SUBMITTED BY:  
JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

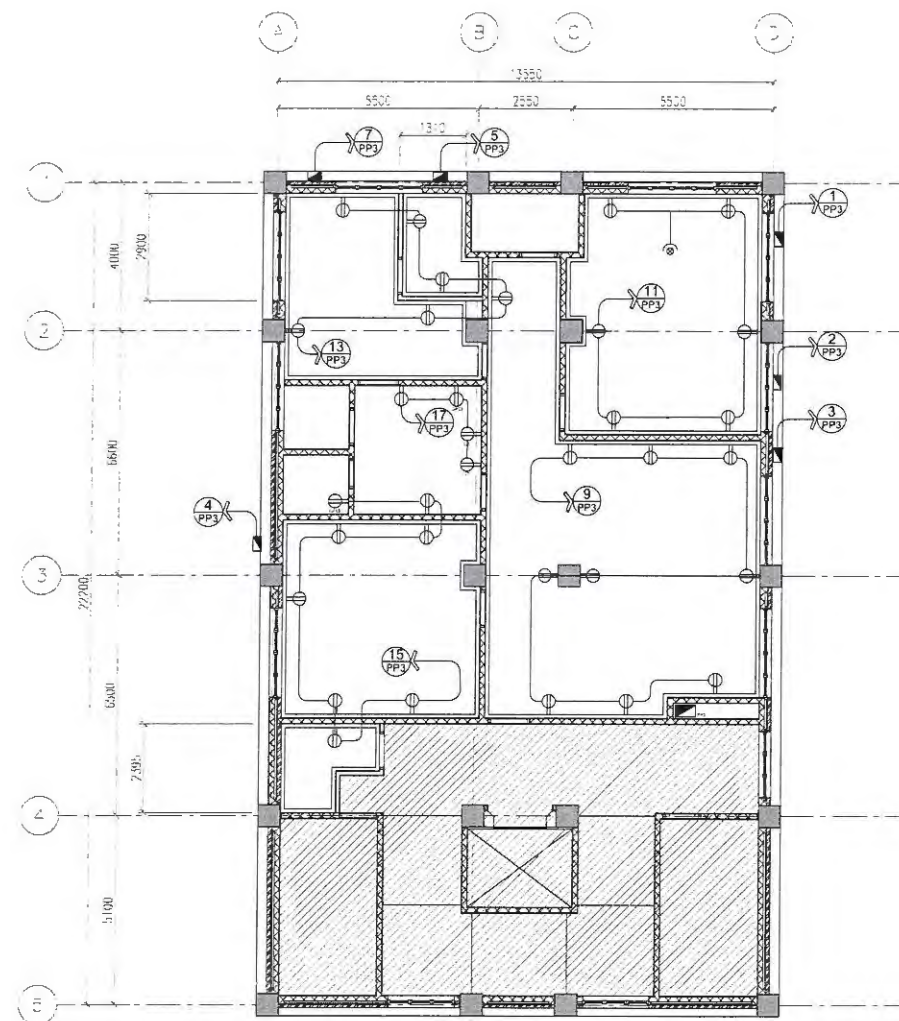
APPROVED BY:  
BERNARD TUGA, PH.D.  
PRESIDENT

DATE:  
MARCH 28, 2023  
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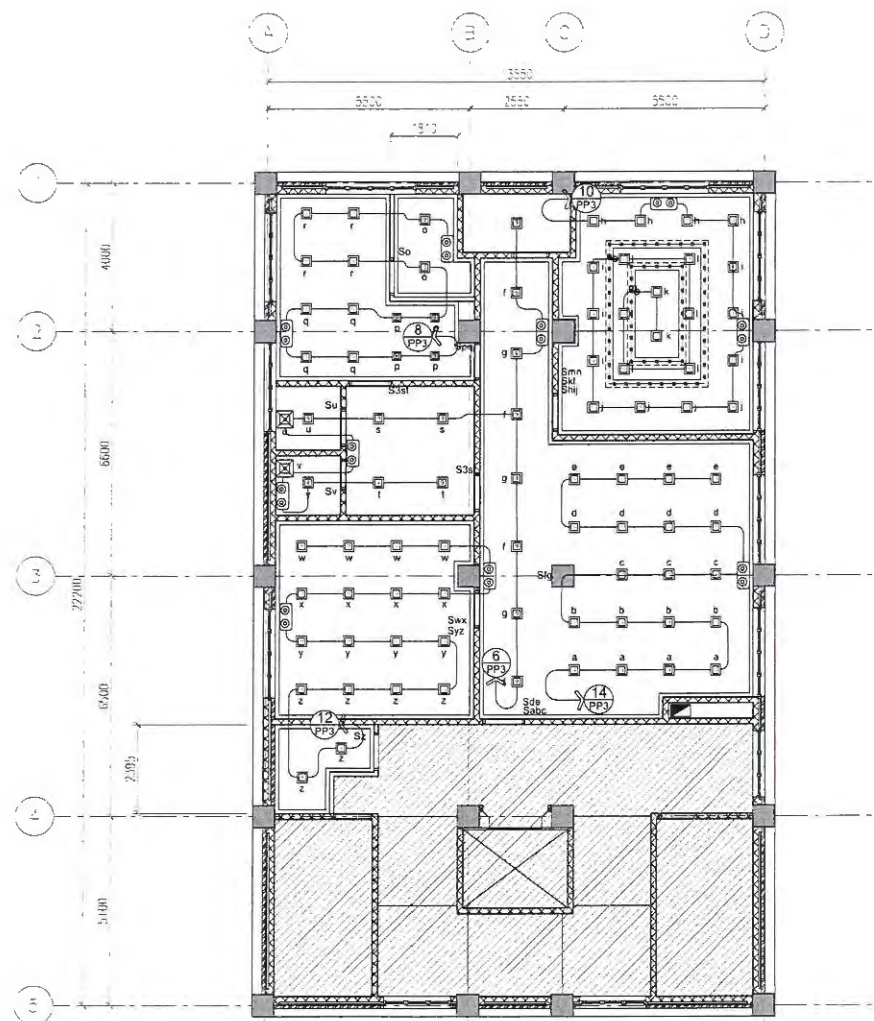
SHEET CONTENTS:  
ELECTRICAL LOADS  
RISER DIAGRAM

SHEET NO.:  
E-03





MACEDA HALL THIRD FLOOR  
**3 PROPOSED POWER LAYOUT**  
 E-04 NTS



MACEDA HALL THIRD FLOOR  
**4 PROPOSED LIGHTING LAYOUT**  
 E-04 NTS

#### GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 15MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:
 

LIGHTING CONTROL SWITCHES	1.40 M. ABOVE FFL. & 150 MM FROM JAMBS
CONVENIENCE OUTLET	0.30 M ABOVE FLOOR FINISH
COUNTER HEIGHT OUTLET	0.30 M ABOVE COUNTER FINISH
AIRCON OUTLET	VERIFY FROM ENGINEER
PANEL BOARD	1.40 M ABOVE FLOOR FINISH
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.

LEGEND	
SYMBOL	DESCRIPTION
Sa	ONE-GANG SWITCH
Sab	TWO-GANG SWITCH
Sabc	THREE-GANG SWITCH
Siab	3-WAY TWO-GANG SWITCH
□	RECESSED SQUARE SMD LED DAYLIGHT 9 WATTS
■	RECESSED SQUARE SMD LED DAYLIGHT 12 WATTS
— — — — —	LED STRIP LIGHT
⊞	EMERGENCY LIGHT
⊞	EXHAUST FAN
⊞	DUPLEX CONVENIENCE OUTLET
⊞	COUNTER TOP DUPLEX CONVENIENCE OUTLET
⊞	GFCI OUTLET
⊞	PROJECTOR OUTLET
⊞	AIR CONDITION OUTLET



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 Taft Avenue, Manila

PROJECT TITLE:  
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 AND VICE PRESIDENT FOR  
 ACADEMICS**

PREPARED BY:  
**MARK ANTHONY C. AMUL**  
 ELECTRICAL ENGINEER, FMSS  
 PRC NUMBER 74155  
 PTR NUMBER MLA 0846421

SUBMITTED BY:  
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 DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
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 AND ADMINISTRATION

APPROVED BY:  
**BERNARD TUGA, PH.D.**  
 PRESIDENT

DATE:  
 MARCH 28, 2023  
 CAD BY:  
 JBC

SHEET CONTENTS:  
**GENERAL NOTES  
 POWER LAYOUT  
 LIGHTING LAYOUT**

SHEET NO.:  
**E-04**

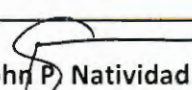
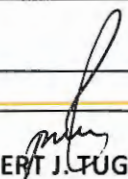


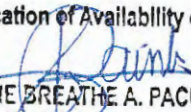
**PURCHASE REQUEST  
PHILIPPINE NORMAL UNIVERSITY  
AGENCY**

Department: FMSS PR No. \_\_\_\_\_ 31-Mar-23 23040174  
 Section: \_\_\_\_\_ SAI No. \_\_\_\_\_ Date: \_\_\_\_\_

Stock No.	Unit	Description	Quantity	Unit	Estimated Cost	Total Unit Estimated Cost
	lot	Repair and Renovation of Ceiling at Pedro T. Orata Hall Ground Floor	1		2,384,504.22	2,384,504.22
		Attached documents:				-
		Scope of Works				-
		Bill of Quantities				-
		Plans				-
<div style="border: 2px solid blue; padding: 5px; text-align: center;">                     Philippine Normal University                      OFFICE OF THE                      UNIVERSITY PRESIDENT  <b>RECEIVED</b>                      Date: <u>4/17/2023</u>                      By: <u>[Signature]</u> </div>						-
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<div style="border: 1px solid blue; padding: 5px; text-align: center;">                     Philippine Normal University                      Administration Management Unit                      11th Avenue, Manila  <b>RECEIVED</b>  <u>[Signature]</u>  <b>APR 17 2023</b> </div>						-
						-
					Total Estimated Cost	2,384,504.22
					maintenance	

Purpose: Repair of dilapidated ceiling at Pedro T. Orata Building

Requested by:	Approved by:
Signature  <b>John P. Natividad</b> Director	 <b>DR. BERT J. TUGA</b> President
Date: 31/03/2023	

Certification of Availability of Funds:  
 P 2384,504.22  
**JASTINE BREATHE A. PACURIB**  
 Accountant III  


<b>PURCHASE REQUEST</b> <b>PHILIPPINE NORMAL UNIVERSITY</b> <b>AGENCY</b>
---------------------------------------------------------------------------------

Department: FMSS	PR No. _____	31-Mar-23
Section:	SAI No. _____	Date: 23040774

PR No. _____	31-Mar-23	23040774
SAI No. _____	Date: _____	

31-Mar-23  
Date: 23 04 0774

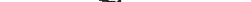
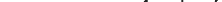
23040774

[illegible]

Purpose: Repair of dilapidated ceiling at Pedro T. Orata Building

Requested by:	Approved by:
---------------	--------------

Approved by: \_\_\_\_\_

Signature		
Printed Name	John P. Natividad	DR. BERT J. TUGA

<b>John P. Natividad</b>	<b>DR. BERT J. TUGA</b>
Director	President

DR. BERT J. TUGA  
President

Date	31/03/2023	
------	------------	--

Name of Project:     **REPAIR AND REPLACEMENT OF CEILING AT PEDRO T. ORATA HALL  
GROUND FLOOR**

Subject:               **SCOPE OF WORKS**

**GENERAL:**

The Work consists of supervision, supply of materials, labor and equipment and all other items and services necessary to complete the Project. The Contractor shall execute and complete the Work with full responsibility and in self-supporting capacity. He shall comply with all Laws, City Ordinances, and all Government Regulations and with other regulatory requirements. He shall be responsible for all damages to persons or property, which may occur in connection with the execution of the Work.

**SCOPE OF DIRECT WORKS:**

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

**I. GENERAL REQUIREMENTS**

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.

**II. DEMOLITION AND DISPOSAL WORKS**

1. Removal of existing ceiling including all unnecessary ceiling and wall attachments.
2. Disposal of debris and site cleanup.

**III. CEILING WORKS**

**1. Ceiling at Hallways (with Cove)**

1. Supply and installation of fiber cement ceiling board on light gage metal framing, complete with coves.
2. Supply and installation of hangers and supports.
3. Supply and installation of moldings and cornices.

## **2. Ceiling at Rooms and Offices**

1. Supply and installation acoustic ceiling boards on t-runner suspension framing system.
2. Supply and installation of hangers and supports.

## **3. Ceiling at Faculty Center**

1. Supply and installation acoustic ceiling boards and t-runner ceiling frames.

# **IV. PAINTING/REPAINTING WORKS**

1. Complete surface preparation works prior to painting to eliminate surface imperfections.
2. Painting/repainting of interior masonry and concrete finishes, using acrylic latex paint.
3. Painting of fiber cement board ceiling using textured paint top coated with semi-gloss or flat acrylic latex paint.
4. Painting/Repainting of wood and steel finishes using quick-drying alky enamel paints.

# **V. ELECTRICAL WORKS**

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Dismantle the existing lighting electrical wiring and conduits.
3. Remove the existing lighting fixtures and switches.
4. Disconnect and remove any electrical equipment that is no longer needed.
5. Install new electrical wiring and conduits as needed to support the updated electrical system.
6. Upgrade the lighting system with energy-efficient LED fixtures that provide adequate illumination while reducing energy consumption.
7. Install new lighting and switches as needed to support the office's electrical requirements.
8. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
9. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
10. Complete Testing of the Electrical System and submit the following test result.
  - a. Insulation Test Result
  - b. Continuity Test Result



c. Live test Result

11. As-built electrical drawings showing the updated electrical system.

**SCOPE OF INDIRECT WORKS:**

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, power and water consumption; and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing or working drawings, documents and/or materials samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

**TECHNICAL SPECIFICATIONS**

**GENERAL NOTES:**

1. The Contractor is expected to review the specifications and to verify all measurements and dimensions at the site. In case of discrepancy in details and dimensions; it shall be brought to the attention of the Engineer for clarification.
2. All works shall be done in the best workmanship manner and in accordance with the local practice of highest industry-accepted standards.
3. All materials shall be subject to approval. The Contractor shall submit the material technical data and/or samples appropriately.

**DEMOLITION WORKS**

1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary for the demolition works as described in the Scope of Works.
2. Execute demolition works in such a manner as to ensure the protection of adjacent properties against damage.
3. Remove, as it accumulates, debris resulting from demolition. Woods and other combustible materials must not be burned on site.

## DRYWALL

### 1. Submittals

- a. Material Technical Data
- b. Samples:
  - i. Two 300mm square boards of each required type.
  - ii. Two 300mm long of each type of metal studs and furring.

### 2. **Materials:** Unless otherwise necessary, materials shall be supplied by only one manufacturer.

- a. Fiber cement board:
  - i. Thickness: 6.0mm for wall, 4.5mm for ceiling, squared edges
  - ii. Fire rating: more than 2 hours
  - iii. See table for Physical Properties
- b. Structural framing:
  - i. Runners: Channel or angle shaped. Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, shall be used.
  - ii. Metal Studs: Cold-rolled galvanized steel, 0.6mm thk or as recommended by the drywall manufacturer, whichever is greater, for the wall system and height indicated shall be used.
  - iii. Furring channels: Cold-rolled galvanized steel, flanged channel type for wall furring and ceiling attachment shall be used.
- c. Suspension members for ceiling:
  - i. Hangers: Galvanized hangers, minimum 10mm diameter threaded rods shall be used.
  - ii. Carrying channel: Cold-rolled galvanized channels, 1.0mm thk, 38mm depth shall be used.
  - iii. Furring channels: Cold-rolled galvanized steel channels, 0.6mm thk, minimum 19mm flange depth shall be used.
- d. Fasteners: For all applications involving drywall, comply with the manufacturer's recommendations.

### 3. **Installation:**

- a. General:
  - i. Install all materials and systems in accordance with the manufacturer's instructions unless otherwise shown or directed.

- ii. Install the maximum practical lengths of fiber cement or plasterboard to span walls and ceiling with a minimum number of end butt joints.
  - iii. Apply pressure to the surface of wallboard while fastener is being driven to ensure that wallboard will be secured tightly to the supporting frame.
- b. Wall:
  - i. Provide additional framing and blocking as required to support wallboards at openings and cut-outs, and to support built-in anchorage and attachment devices for other works.
  - ii. Provide 50mm x 75mm, 2.0mm steel tubular frame extending from the flooring to the soffit of slab above, if needed, to support in the stabilization of partitions and especially in the installation of doors.
- c. Ceiling:
  - i. Provide hangers and inserts necessary to support suspended ceilings, giving attention to the correct location and alignment.
  - ii. Provide frames for all openings with furring strips so that recessed items shall finish flush with the ceiling, unless otherwise shown on drawings.
  - iii. Provide sufficient hangers on each side of lighting fixtures, diffusers, and other similar items.
  - iv. Secure furring channels to primary suspension runners/carrying channels by appropriate clips. Space furring channels at 0.40m on centers or as recommended by the wallboard manufacturer, whichever is smaller.

#### **4. Quality Control Verification Items:**

- a. Sample, type, specification, dimension, color pattern, appearance, and dryness of material in comparison with the sample.
- b. Method and sequence of installation.
- c. Reference mark and layout
- d. Spacing, alignment, plumbness, deformation (if any)
- e. Detail of connection.
- f. Fastening condition of boards.
- g. Cleaning of exposed surfaces.
- h. Protection.

## **PAINTING AND REPAINTING WORK**

### **1. Submittals**

- a. Material Lists
- b. Material Technical Data
- c. Manufacturer' Standard Color Chart
- d. Samples:
  - i. Two representative samples of each finish coat on 200mm x 200mm palettes.

### **2. Painting System**

- a. Concrete, Cement Plaster
  - Surface preparation: Application of neutralizer and cleaning
  - Prime coat: Flat latex, cementitious skim coat or cement paint putty
  - Topcoat: Acrylic latex paint
  - Color and sheen: Refer to approved sample
- b. Fiber Cement Substrates
  - Surface preparation: Patching holes and other minor imperfections
  - Prime coat: Flat latex, gypsum joint compound
  - Topcoat: Acrylic latex paint
  - Color and sheen: Refer to approved sample
- c. Structural Steel
  - Surface preparations: SP-3 Power Tool Cleaning  
SP-6 Commercial Blast Cleaning
  - Prime coat: Zinc Chromate/Epoxy Primer
  - Topcoat: Epoxy paint or epoxy enamel
  - Color and sheen: Refer to approved sample
- d. Metal Surfaces

---

  - Surface preparations: SP-3 Surface Preparation Standards
  - Prime coat: Red oxide metal primer
  - Topcoat: Alkyd based paint



- |                  |                          |
|------------------|--------------------------|
| Color and sheen: | Refer to approved sample |
|------------------|--------------------------|
- e. Wood Surfaces
- |                       |                                |
|-----------------------|--------------------------------|
| Surface preparations: | Sanding, dusting and cleaning  |
| Prime coat:           | Flatwall enamel, glazing putty |
| Topcoat:              | Alkyd based paint              |
| Color and sheen:      | refer to approved sample       |
- f. Repainting of Concrete and Cement Plaster
- |                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Surface preparations: | Remove all loose and unsuitable paint and lightly sand smooth painted surfaces. |
| Prime coat:           | Flat latex, cementitious skim coat or cement paint putty                        |
| Topcoat:              | Acrylic latex paint                                                             |
| Color and sheen:      | Refer to approved sample.                                                       |
- g. Repainting/Revarnishing of Wood Surfaces
- |                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Surface preparations: | Remove all loose and unsuitable paint/varnish to sound surface. |
| Prime coat:           | Sanding sealer                                                  |
| Topcoat:              | Clear gloss lacquer, lacquer flo                                |
| Color and sheen:      | Refer to approved sample                                        |

### 3. Quality Control Verification Items:

- a. Extent, classification, method, sequence of painting work.
- b. Type, property, specification, tone, color, luster in comparison with approved sample.
- c. Preparation of substrate and cleaning method.
- d. Applicability and condition of equipment.
- e. Weather at the time of painting.
- f. Number of coats and duration between coatings.
- g. Quality and condition of paint as to tone, color, luster, evenness, etc.
- h. Appearance of loose or any unsuitable paint and foreign materials.
- i. Protection from paint drops.

### 4. Execution

- a. Examine substrates and conditions, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.

- b. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
- c. Apply paints according to manufacturer's written instructions.
- d. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- e. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- f. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- g. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- h. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and re-finishing, as approved by Engineer, and leave in an undamaged condition.

**Additional Documents to be Submitted on Bid Opening:**

- The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS). A certificate of site inspection will be given to the bidder/s who procured the bid documents.
- The bidder shall submit a technical data sheet, and these technical data sheets shall be part of the criteria for evaluation.
- PCAB license General Building Category B
- This shall include all the following documents:
  - Bid prices in the Bill of Quantities;
  - 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;
  - Detailed Unit Price Analysis (DUPA); and
  - Cash flow by quarter or payment schedule
- The Contractor shall employ the following Key Personnel:
  - Bidder shall have one (1) Project-in-Charge (should be licensed Architect or Engineer); one (1) Foreman; one (1) Safety Officer, and one (1) Materials Engineer. Bidder shall submit the photocopy of PRC ID Licenses of Engineers or Architect, latest PTR, and curriculum vitae of foreman.
- Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within ten (10) years from the submission of bids, a similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for

the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.

- Subcontracting is allowed subject to the compliance with the RA9184 requirements.

*Architectural Works*

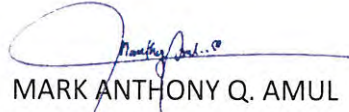
Prepared by:



ALFREDO G. ALARCON, JR.  
Civil Engineer, FMSS

*Electrical Works*

Prepared by:



MARK ANTHONY Q. AMUL  
Electrical Engineer, FMSS

Recommended by:



PROF. JOHN P. NATIVIDAD  
Director, FMSS

Project: REPAIR AND REPLACEMENT OF CEILING AT PEDRO T. ORATA HALL  
Ground Floor

Subject: BILL OF QUANTITIES

Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
1.00	Mobilization/demobilization	1.00	lot	15,000.00	15,000.00
2.00	Construction safety and health	1.00	lot	60,000.00	60,000.00
3.00	Temporary facilities	1.00	lot	25,000.00	25,000.00
	<b>Subtotal</b>				<b>100,000.00</b>
<b>II</b>	<b>DEMOLITION AND DISPOSAL WORKS</b>				
1.00	Dismantling/Removal of ceiling and other unnecessary materials	1.00	lot	44,650.00	44,650.00
2.00	Disposal of debris and site cleanup	1.00	lot	50,150.00	50,150.00
	<b>Subtotal</b>				<b>94,800.00</b>
<b>III</b>	<b>CEILING WORKS</b>				
<b>1.00</b>	<b>Ceiling at Hallways (with Cove)</b>				
1.01	4.5mm thk fiber cement board on light gage metal framing, complete with fiber cement joint epoxy (submit technical data sheet)	114.60	sq.m.	650.00	74,490.00
1.02	Hangers and supports: Ø10 threaded rod and accessories	1.00	lot	27,030.00	27,030.00
1.03	PVC moulding/cornice, 100mm	86.80	l.m.	260.00	22,568.00
1.04	PVC moulding/cornice, 75mm	86.80	l.m.	160.00	13,888.00
1.05	PVC moulding/cornice, 50mm	86.80	l.m.	105.00	9,114.00
1.06	Labor and equipment	1.00	lot	50,750.00	50,750.00
<b>2.00</b>	<b>Ceiling at Rooms and Offices</b>				
2.01	Acoustic ceiling board, 600 x 600 x 15mm, fine fissured finish	228.90	sq.m.	830.00	189,987.00
2.02	T-runner suspension framing system	228.90	sq.m.	250.00	57,225.00
2.03	Hangers and supports: Ø6 suspension rod and accessories	1.00	lot	48,980.00	48,980.00
2.04	Labor and equipment	1.00	lot	88,180.00	88,180.00
<b>3.00</b>	<b>Ceiling at Faculty Center</b>				
3.01	Acoustic ceiling board, 600 x 600 x 15mm (verify finish) (submit technical data sheet)	10.00	pcs	240.00	2,400.00
3.02	Cross tee, 2' (verify length and finish)	1.00	pc	65.00	65.00
3.03	Cross tee, 2' (verify length and finish)	3.00	pcs	35.00	105.00
3.04	Labor and equipment	1.00	lot	900.00	900.00
	<b>Subtotal</b>				<b>585,682.00</b>
<b>IV</b>	<b>PAINTING/REPAINTING WORKS</b>				
1.00	Textured paint on fiber cement ceiling, semi-gloss latex finish	114.60	sq.m.	300.00	34,380.00
2.00	Semi-gloss latex finish on existing concrete or masonry walls, columns, beams, and stair soffit	570.50	sq.m.	220.00	125,510.00
3.00	Quick-drying enamel on wood and metal surfaces	43.70	sq.m.	260.00	11,362.00
4.00	Labor and equipment	1.00	lot	111,320.00	111,320.00
	<b>Subtotal</b>				<b>282,572.00</b>
<b>V</b>	<b>ELECTRICAL WORKS</b>				
<b>1</b>	<b>Roughing-ins</b>				
1.01	20 mm Ø PVC pipe (submit technical data sheet)	180.00	pcs	141.00	25,380.00
1.02	20 mm Ø Flexible Metallic Tubing (submit technical data sheet)	100.00	lm	125.00	12,500.00
1.03	4" x 4" Octagonal Junction box (metal) ga.16	56.00	pcs	57.00	3,192.00
1.04	2" x 4" Utility box (metal) ga.16	24.00	pcs	45.00	1,080.00
1.05	Square box ga. 16	10.00	pcs	86.00	860.00
1.06	20 mm ØPVC male adaptor w/ locknut	200.00	pcs	25.00	5,000.00
1.07	20 mm Ø Two Hole EMT Clamp	120.00	pcs	19.50	2,340.00
1.08	Unistrut channel 2M	6.00	pcs	2,485.00	14,910.00
1.09	Strut channel Clamp 20mm	80.00	pcs	48.00	3,840.00



Date: March 28, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
1.1	Full threaded Rod 3/8 x 3M	20.00	lgt	1,480.00	29,600.00
1.11	Nuts and washers 3/8	1.00	lot	3,500.00	3,500.00
1.12	Grip Anchor 3/8	5.00	box	685.00	3,425.00
1.13	Labor and equipment	1.00	lot	31,688.10	31,688.10
<b>2</b>	<b>Wires and Cable (submit technical data sheet)</b>				
2.01	3.5 sqmm THHN Stranded Wire 150m/box	9.00	box	5,250.00	47,250.00
2.02	3.5 sqmm THHN Stranded Wire 150m/box Green	4.00	box	5,250.00	21,000.00
2.03	Labor and equipment	1.00	lot	20,475.00	20,475.00
<b>3</b>	<b>Wiring Devices (submit technical data sheet)</b>				
3.01	One-Gang Single Switch Wide Series	1.00	set	195.00	195.00
3.02	Two-Gang Single Switch Wide Series	4.00	set	332.00	1,328.00
3.03	Three-Gang Single Switch Wide Series	5.00	set	482.00	2,410.00
3.04	One-Gang Convenience Outlet Wide Series	14.00	set	210.00	2,940.00
3.05	Labor and equipment	1.00	lot	2,061.90	2,061.90
<b>4</b>	<b>Lighting Fixtures and Ceiling Equipment (submit technical data sheet)</b>				
4.01	600 X 600 x 9 LED Panel lights Daylight 40 Watts (SPARE)	15.00	set	3,250.00	48,750.00
4.02	600 X 600 x 9 LED Panel lights Daylight 40 Watts	56.00	set	3,250.00	182,000.00
4.03	LED Light Downlight 12 watts DL Slim Type Recessed Mounted	19.00	set	984.00	18,696.00
4.04	LED Cove Lights /Strip Lights 220 volts Warm White /IP65	100.00	lm	300.00	30,000.00
4.05	LED Emergency Light Dual Optics 2x 1 Watts	12.00	pcs	2,000.00	24,000.00
4.06	Labor and equipment	1.00	lot	76,408.80	76,408.80
<b>5</b>	<b>Miscellaneous</b>				
5.01	Electrical Tape	25.00	pcs	65.00	1,625.00
5.02	G.I. pull wire	10.00	kgs	75.00	750.00
5.03	butane gas	2.00	pcs	120.00	240.00
5.04	torch head	2.00	pcs	750.00	1,500.00
5.05	hacksaw blade	2.00	pcs	115.00	230.00
5.06	1" Black Screw	5.00	box	250.00	1,250.00
5.07	# 6 Plastic Tox	5.00	box	150.00	750.00
5.08	Drill Bit	3.00	pcs	150.00	450.00
5.09	4" Concrete Cutting Disc	2.00	pcs	750.00	1,500.00
5.1	Consumables	1.00	lot	3,500.00	3,500.00
5.11	Labor and equipment	1.00	lot	3,538.50	3,538.50
<b>6</b>	<b>Testing and Commissioning</b>				
6.01	Testing and Commissioning	1.00	lot	30,000.00	30,000.00
	<b>Subtotal</b>				<b>660,163.30</b>
	<b>TOTAL DIRECT COST</b>				<b>1,723,217.30</b>
	<b>INDIRECT COST</b>				
	OCM				243,482.60
	Contractor's profit				162,321.73
	VAT				255,482.60
	<b>TOTAL PROJECT COST</b>				<b>2,384,504.22</b>

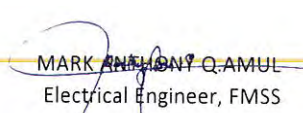
Architectural Works

Prepared by:

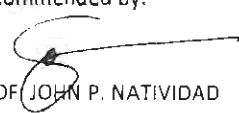
  
 ALFREDO G. ALARCON, JR.  
 Civil Engineer, FMSS

Electrical Works

Prepared by:

  
 MARK ANTHONY Q. AMUL  
 Electrical Engineer, FMSS

Recommended by:

  
 PROF. JOHN P. NATIVIDAD  
 Director, FMSS

# **DETAILED UNIT PRICE ANALYSIS (DUPA)**

**NAME OF PROJECT:**

**LOCATION:**

Item No. / Description

Unit of Measurement

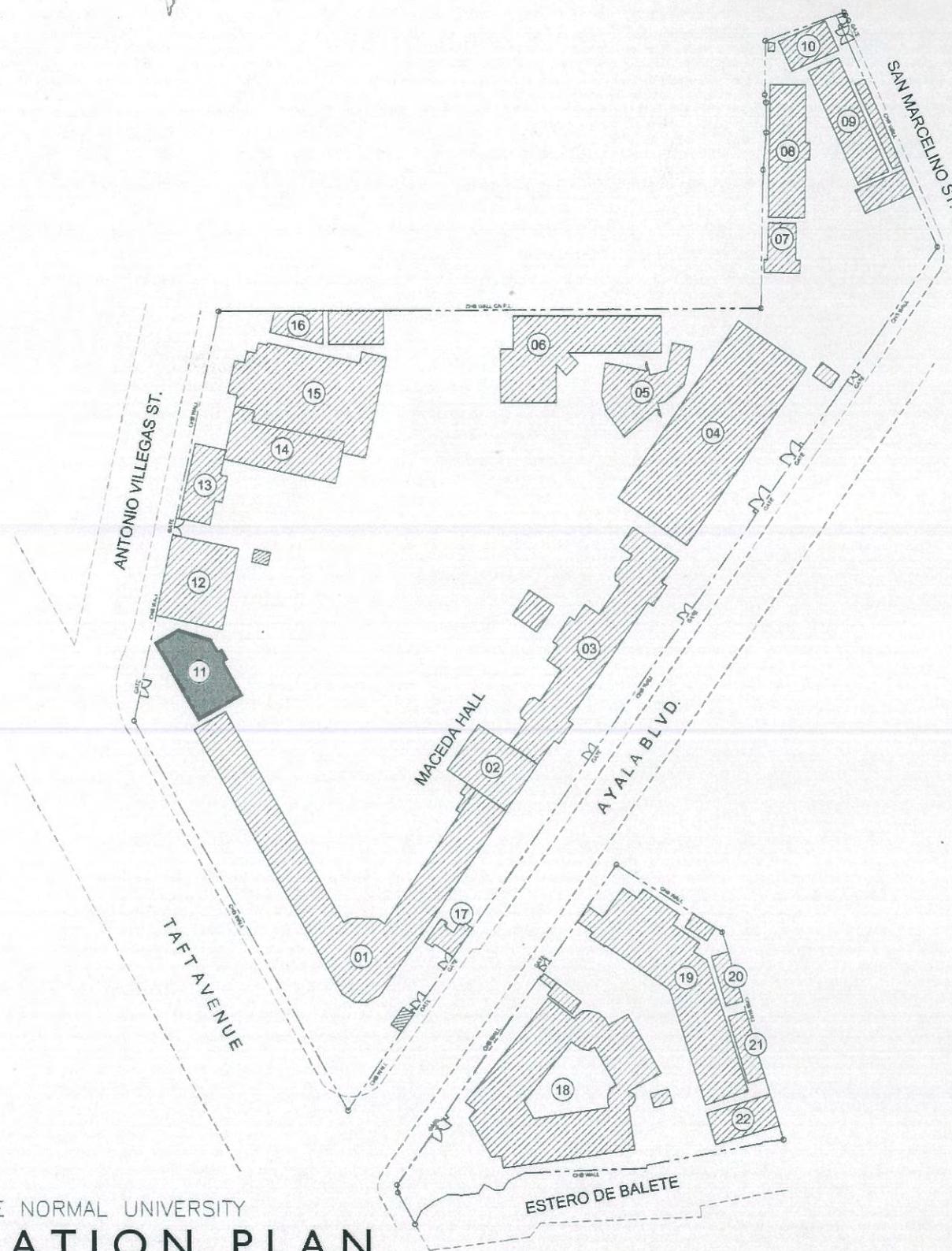
Output per hour

	<b>Designation</b>	<b>No. of Person</b>	<b>No. of Hours</b>	<b>Hourly Rate</b>	<b>Amount</b>
A.	Labor				
	Sub-Total for A				
	<b>Name and Capacity</b>	<b>No. of Units</b>	<b>No. of Hours</b>	<b>Rental Rate</b>	<b>Amount</b>
B.	Equipment				
	Sub-Total for B				
C.	Total (A + B)				
D.	Output per hour =				
E.	Direct Unit Cost (C / D)				
	<b>Name and Specifications</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Amount</b>
F.	Materials				
	Sub-Total for F				
G.	Direct Unit Cost (E + F)				
H.	Overhead, Contingencies & Miscellaneous (OCM)				% of G
I.	Contractor Profit (CP)				% of G
J.	Value Added Tax (VAT)				5% of (G + H + I)
K.	Total Unit Cost				G + H + I + J

Prepared / Submitted by:

\_\_\_\_\_  
Signature Over Printed Name  
Company





PHILIPPINE NORMAL UNIVERSITY  
**1**  
A-01 NTS  
**LOCATION PLAN**

PHILIPPINE NORMAL UNIVERSITY	
BUILDINGS:	
SYMBOL	DESCRIPTION
01	GERONIMA T. PECSON HALL
02	MACEDA HALL
03	FACULTY CENTER
04	EDILBERTO P. DAGOT HALL
05	CHAPEL
06	BONIFACIO P. SIBAYAN HALL
07	MEDICAL AND DENTAL CLINIC
08	OLD ITL (ELEMENTARY)
09	OLD ITL (HIGH SCHOOL)
10	MATERIAL RECOVERY FACILITY
11	PEDRO T. ORATA HALL
12	FINANCE BUILDING
13	GUSALI NG WIKA BUILDING
14	CULTURE AND SPORTS BUILDING
15	GYMNASIUM
16	IPEHRDS FACULTY BUILDING
17	SECURITY SERVICES AND SAFETY MANAGEMENT UNIT
18	NORMAL HALL
19	HRD BUILDING
20	ANNEX CLASSROOM - A
21	ANNEX CLASSROOM - B
22	HOSTEL

LOCATION PLAN	
LEGEND:	
SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	BOUNDARY LINE
▨	BUILDINGS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND RENOVATION OF PEDRO  
T. ORATA HALL GROUND FLOOR  
CEILING

PREPARED BY:

ALFREDO G. ALARCON JR.  
CIVIL ENGINEER, FMSS  
PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERNARDITO TUGA, PH.D.  
PRESIDENT

DATE:

MARCH 29, 2023

CAD BY:

JBC

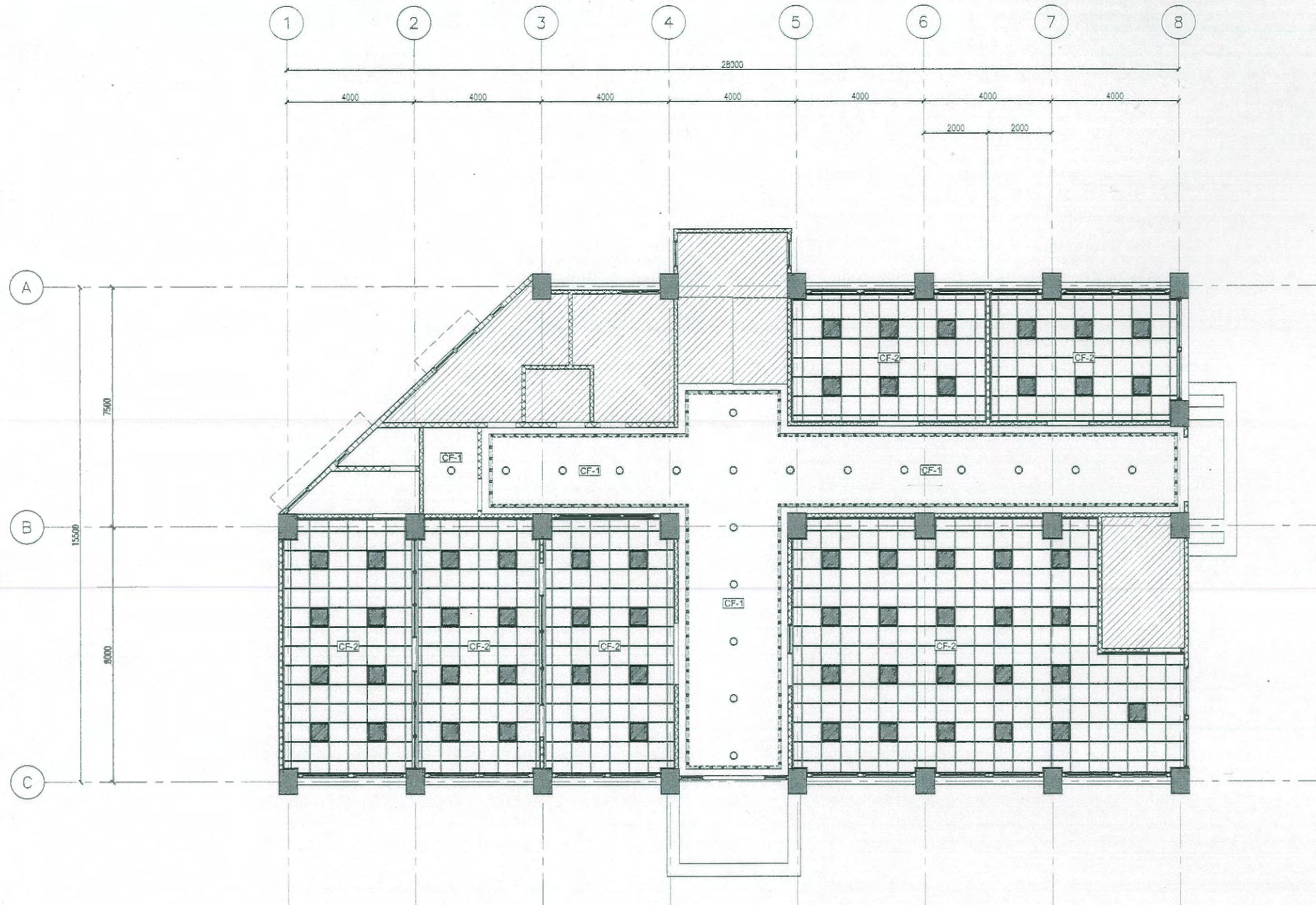
SHEET CONTENTS:

LOCATION PLAN

SHEET NO.:

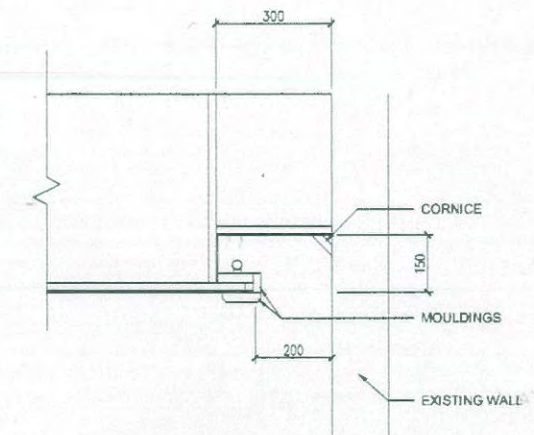
A-01





1 PROPOSED REFLECTED CEILING PLAN  
A-02 NTS

LEGEND	
LIGHTING LEGEND	
SYMBOL	DESCRIPTION
○	LED SLIM TYPE DOWNLIGHT 12WATTS DAYLIGHT
■	600mm x 600mm LED OFFICE PANEL LIGHTS
CEILING FINISH	
SYMBOL	DESCRIPTION
CF-1	4.5mm THICK FIBER CEMENT BOARD ON LIGHT GAGE METAL FRAMING
CF-2	600 x 600 x 15mm ACOUSTIC CEILING BOARD ON T-RUNNER SUSPENSION CEILING SYSTEM



2 COVE DETAIL  
A-02 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:  
REPAIR AND RENOVATION OF PEDRO  
T. ORATA HALL GROUND FLOOR  
CEILING

PREPARED BY:  
ALFREDO C. ALARCON JR.  
CIVIL ENGINEER, FMSS  
PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:  
JOHN B. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:  
JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

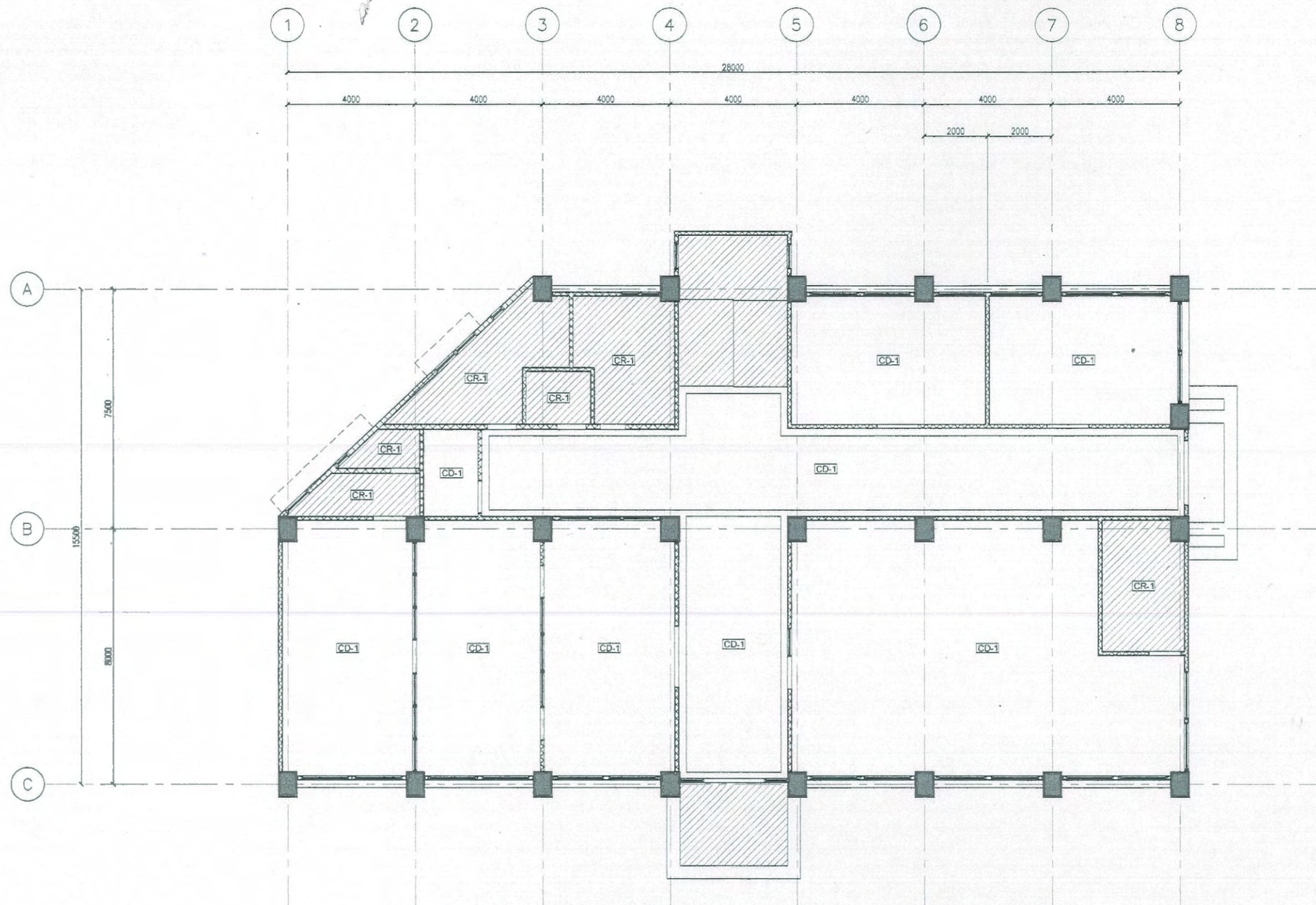
APPROVED BY:  
BERT J. TUGA, PH.D.  
PRESIDENT

DATE:  
MARCH 28, 2023  
CAD BY:  
JBC

SHEET CONTENTS:  
REFLECTED CEILING PLAN

SHEET NO.:  
A-02





3 EXISTING REFLECTED CEILING PLAN  
A-03 NTS

LEGEND	
CEILING FINISH	
SYMBOL	DESCRIPTION
CR-1	CEILING RETAIN
CD-1	CEILING DEMOLISH



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND RENOVATION OF PEDRO  
T. ORATA HALL GROUND FLOOR  
CEILING

PREPARED BY:

ALFREDO C. ALARCON JR.  
CIVIL ENGINEER, FMSS

PRC NUMBER 59405  
PTR NUMBER 0846420

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT J. LUGA, PH.D.  
PRESIDENT

DATE:

MARCH 29, 2023

CAD BY:

JBC

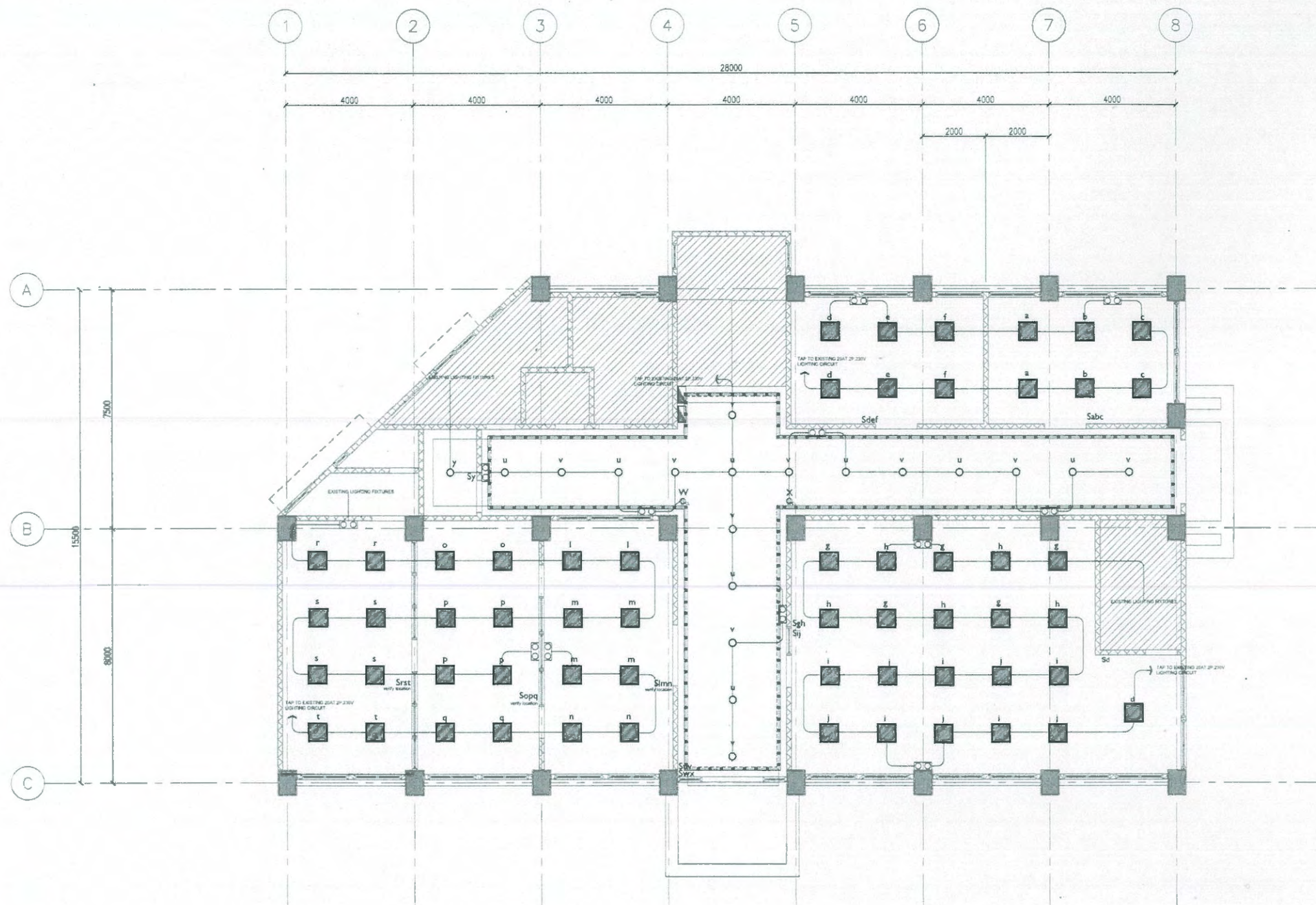
SHEET CONTENTS:

REFLECTED CEILING PLAN

SHEET NO.:

A-03





# GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THW 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5MM<sup>2</sup> & 20MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:  
LIGHTING CONTROL SWITCHES 1.40 M. ABOVE FFL & 150 MM FROM JAMBS
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

## LEGEND

SYMBOL	DESCRIPTION
Sa	ONE-GANG SWITCH WIDE SERIES
Sab	TWO-GANG SWITCH WIDE SERIES
Sabc	THREE-GANG SWITCH WIDE SERIES
O	LED SLIM TYPE DOWNLIGHT 12WATTS DAYLIGHT
⊕	ONE-GANG CONVENIENCE OUTLET/COVE LIGHT
PB	PANEL BOARD
—•—•—•—	LED STRIP LIGHT 220 VOLT WARM WHITE IP65
⊕	EMERGENCY LIGHT
■	600mm x 600mm LED OFFICE PANEL LIGHTS

## 1 GROUND FLOOR POWER LAYOUT E-01 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

REPAIR AND RENOVATION OF PEDRO  
T. ORATA HALL GROUND FLOOR  
CEILING

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS  
PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. OCAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT U. TUGA, PH.D.  
PRESIDENT

DATE:

MARCH 29, 2023

CAD BY:

JBC

SHEET CONTENTS:

POWER LAYOUT

SHEET NO.:

E-01





PHILIPPINE NORMAL UNIVERSITY  
National Center for Teacher Education  
**FACILITIES MANAGEMENT AND SUSTAINABILITY SERVICES**  
Taft Avenue cor. Ayala Blvd., Ermita Manila  
Tel. No.: 3171768 loc. 779

November 15, 2023

**DR. BERT J. TUGA**  
President  
This University

Through Channels



Dear Pres. Tuga:

Respectfully forwarded to the Office of the President through the Vice President for Finance and Administration the project **UPGRADING POWER PANEL AT LIBRARY SECOND FLOOR PERIODICALS SECTION** with the estimated cost of **Php1,518,568.42**.

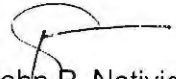
Upon inspection by Engr. Mark Anthony Q. Amul, FMSS Electrical Consultant, he found out that there is a need to upgrade the electrical panel at the library periodical section to address electrical potential threats due to the breaker leak, improvised busbar jumper, mismatched 3-phase breakers, and electrical overloading. Furthermore, the upgrading of the electrical panel will address the safety of the occupancy in the library periodical section.

In this regard, the undersigned requests the approval and signature of the attached documents. Attached are the pertinent documents that merit the approval of this request.

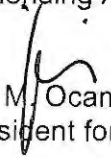
- Letter of Request;
- Purchase Request;
- Inspection Report of Engr. Mark Anthony Amul
- Bill of Quantities with stamp of Certification of Availability of Funds;
- Scope of Work;
- Schedule of Loads and plan.

Your favorable response to this request is very much appreciated.

Truly yours,

  
John P. Natividad  
Director

Recommending Approval:

  
Dr. Jose M. Ocampo  
Vice President for Finance and Administration

APPROVED:

  
**BERT JAZMIN TUGA, PhD**  
President



PHILIPPINE NORMAL UNIVERSITY  
The National Center for Teacher Education  
**FACILITIES MANAGEMENT AND SUSTAINABILITY SERVICES**  
Taft Avenue cor. Ayala Blvd., Ermita, Manila  
Tel. No. 3171768 loc. 779

October 27, 2023

**Mr. Ronnie B. Pagal**  
OIC, Financial Management Services  
This University

Dear Mr. Pagal,

I am writing to inquire about the availability of funds for the project **UPGRADING POWER PANEL AT LIBRARY SECOND FLOOR PERIODICALS** which will cost **One Million Five Hundred Eighteen Thousand Six Hundred Sixty Eight pesos and 42/100 (Php1,518,568.42)**.

The purpose of this letter is to kindly request the availability of funds for the above-mentioned project before I seek approval from the university president. Please find attached the document to merit the approval of this request.

- Inspection report of Engr. Mark Anthony Amul;
- Pictures of the Panel Board for Periodical Sections;
- Bill of Quantities with Scope of Works; and
- Electrical Plans made by Engr. Amul.

Thank you.

Very truly yours,

  
**John P. Natividad**  
Director



<b>PURCHASE REQUEST</b> <b>PHILIPPINE NORMAL UNIVERSITY</b> <b>AGENCY</b>
---------------------------------------------------------------------------------

Department: FMSS  
Section: \_\_\_\_\_

PR No. 23112356  
SAI No. 23112356

15-Nov-23  
Date:

[illegible]

Purpose: Replacement of the power panel at library periodicals section due to breaker leak and accommodate additional loads

Requested by:

Approved by:

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_

John P. Natividad  
Director

DR. BERT J. TUGA  
President

Date \_\_\_\_\_

15/11/2023

Project: UPGRADING OF POWER PANEL AT LIBRARY SECOND FLOOR  
PERIODICALS SECTION

Subject: BILL OF QUANTITIES

Date: September 29, 2023

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	75 mm Φ PVC pipe	38.00	pcs	840.00	31,920.00
1.02	50 mm Φ PVC pipe	2.00	pcs	658.00	1,316.00
1.03	32 mm Φ PVC pipe	135.00	pcs	320.00	43,200.00
1.04	4" x 4" metal junction box ga. 16	20.00	pcs	75.00	1,500.00
1.05	32 mm ΦPVC male adaptor w/ locknut	48.00	pcs	36.00	1,728.00
1.06	32 mm Φ Two Hole Metal Clamp	230.00	pcs	25.00	5,750.00
1.07	63 mm Φ Two Hol Metal Clamp	10.00	pcs	65.00	650.00
1.08	Metal square box	10.00	pcs	180.00	1,800.00
1.09	12" x 12" x 6" pullbox #16	5.00	pcs	1,650.00	8,250.00
1.10	Unistrut channel	10.00	pcs	1,550.00	15,500.00
1.11	Strut channel Clamp 32mm	120.00	pcs	48.00	5,760.00
1.12	Strut channel Clamp 50mm	3.00	pcs	59.00	177.00
1.13	Strut channel Clamp 75mm	75.00	pcs	138.00	10,350.00
1.14	Full threaded Rod 3/8 x 3M	25.00	lgt	750.00	18,750.00
1.15	Nuts and washers 3/8	300.00	set	6.50	1,950.00
1.16	Anchor Grip 3/8	3.00	box	420.00	1,260.00
1.17	Labor	1.00	lot	52,010.35	52,010.35
<b>2.0</b>	<b>Wires and Cable</b>				
2.01	125sqmm THHN Stranded Wire RED	85.00	lm	1,390.00	118,150.00
2.02	125sqmm THHN Stranded Wire YELLOW	85.00	lm	1,390.00	118,150.00
2.03	125sqmm THHN Stranded Wire BLUE	85.00	lm	1,390.00	118,150.00
2.04	80 sqmm THHN Stranded Wire RYB	12.00	lm	930.00	11,160.00
2.05	30sqmm THHN Stranded Wire (G)	89.00	lm	325.00	28,925.00
2.06	8.0sqmm THHN Stranded Wire 100 METERS (RYB)	9.00	roll	8,994.00	80,946.00
2.07	5.5sqmm THHN Stranded Wire 150 METERS (Green)	3.00	roll	7,850.00	23,550.00
2.08	Miscellaneous	1.00	lot	7,000.00	7,000.00
2.09	Labor	1.00	lot	177,110.85	177,110.85
<b>3.0</b>	<b>Panels and Boxes</b>				
3.01	PPACU2 (Miniature type CB)	1.00	assy	49,500.00	49,500.00
	Main: 160AT, 3P, 25KAIC, 230V, 60Hz				
	Branches: 10-40AT, 3P, 10 KAIC, 230V, 60Hz				
3.02	PP2 (Miniature type CB)	1.00	assy	66,193.00	66,193.00
	Main: MCCB, 225AT, 3P, 50KAIC, 230V, 60Hz				
	Branches: 1-160AT, 3P, 25 KAIC, 230V, 60Hz				
	2-40AT, 3P, 10 KAIC, 230V, 60Hz				
	4-32AT, 2P, 10 KAIC, 230V, 60Hz				
	12-20AT, 2P, 10 KAIC, 230V, 60Hz				
3.03	MCCB, 225AT, 3P, 50KAIC, 250 AF, 230V, 60Hz	1.00	pcs	13,500.00	13,500.00
3.04	ECB1-ECB8	8.00	set	2,450.00	19,600.00
	40AT CB, 3P in NEMA 3R Enclosure				
3.05	Labor	1.00	lot	44,637.90	44,637.90
<b>4.0</b>	<b>Testing and Commissioning</b>				
4.01	Testing and Commissioning	1.00	lot	30,000.00	30,000.00
	<b>DIRECT COST</b>				1,108,444.10
	<b>INDIRECT COST</b>				
	OCM				166,266.62
	Contractor's profit				110,844.41
	VAT				133,013.29
	<b>TOTAL</b>				1,518,568.42

Prepared by:

MARK ANTHONY Q. AMUL  
Registered Electrical Engineer, FMSS

Recommended by:

PROF. JOHN P. NATIVIDAD  
Director, FMSS

CERTIFICATION OF AVAILABILITY OF FUNDS:

ARGEA LINAR PALABRICA  
ACCOUNTANT III

1,518,568.42

1,518,568.42

# Electrical Schedule of Works and Specifications

**Project:** UPGRADING POWER PANEL AT LIBRARY 2<sup>ND</sup> FLOOR  
EDILBERT P. DAGOT HALL

**Location:** PNU, TAFT MANILA

---

## **DIVISION 1**

### **Electrical Works General Requirement**

#### **GENERAL DESCRIPTION**

- The Work consists of supervision, supply of materials, labor and equipment, and all other items and services necessary to complete the Project. It is also understood that all work covered in this contract shall be executed in the highest form of workmanship and quality of materials.
- Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within five (5) years from the submission of bids, a similar contract for this project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.
- Bidder shall have one (1) Project-in-Charge (should be Engineer); one (1) Foreman; one (1) Safety Officer, one (1) professional electrical engineer, and one (1) Materials Engineer. Bidder shall submit the photocopy of PRC ID Licenses of Engineers, latest PTR, and curriculum vitae of foreman.
- PCAB license Principal Classification General Building, with Specialization of Electrical Works.

## **DIVISION 2**

### **Mobilization and Demobilization**

#### **2.1 EXAMINATION OF SITE**

The contractor shall visit the site of the works and examine the premises to fully understand all of the existing conditions relative to the works. No increase in the cost of extension in performance time will be considered for failure to know its conditions.

#### **2.2 CLEANING**

- A. Upon completion of work, remove and dismantle from the site the Contractor's materials, equipment/tools, temporary facilities, and debris.
- B. Leave premises clean and orderly after completion of the Contract Work.

## **DIVISION 3**

### **BASIC MATERIALS AND METHODS**

#### **A. General Description**

All works shall be in accordance with the governing Codes and Regulations and with the Specifications, except those were same shall conflict with such codes, etc. which the latter shall then govern.

#### **B. Work Included**

Under this division, provide all labor, materials, and equipment and perform all the work necessary for the complete execution of all the Electrical Work in accordance with the drawings and contract and as herein specified or both except as otherwise excluded, and which, without excluding the generality of the foregoing, shall include not limited to the following principal items of work:



1.1 Dismantling of all old power layout including pipe, wires and boxes.

1.2 Furnish and Install the Following:

- i. All conduits and wiring as shown on plans.
- ii. All circuit breakers, panel boards, disconnect, and other protective devices as required on the plan.
- iii. All wiring and conduit system for power.
- iv. All wiring devices, junction boxes, pull boxes, and wiring supports necessary for the complete work of the electrical system.

1.3 Perform all termination of the electrical system.

1.4 Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.

1.5 Complete testing of the electrical system.

**C. Codes, Inspections**

1.1 The work under this contract is to be installed according to the requirements of the latest edition of the Philippine Electrical Code, the rules and regulations of the local authorities, and the requirements of the local power company.

**D. Guarantees**

1.1 The Contractor shall guarantee that the electrical systems are free from all shorts, grounds, and defective workmanship and materials and will remain so for one year from the date of acceptance of work. The Contractor, at his own expense, shall remedy any defect, appearing within the period.

1.2 The Contractor shall indemnify and save harmless the Owner and the Engineer from against and all liabilities for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor or any of his Subcontractors, including any expense legal or otherwise, which may be incurred by the Owner, or the Engineer in the defense of any claim, action or suit.

**E. Approvals, Substitutions, Etc.**

1.1 Wherever, hereinafter, the words "for approval" or "approved" are used, especially with regards to manufactured specialties, etc. or wherever it is desired to substitute a different make or type of apparatus for that specified, all information pertinent to the adequacy and adaptability of the proposed apparatus, shall be submitted to the Engineer and their approval secured before the apparatus is ordered or installed.

**F. Workmanship**

1.1 The work throughout shall be executed in the best and the most thorough manner under the direction of the Contractor and to the satisfaction of the Owner and Engineer who will jointly interpret the meaning of the drawings and specifications and shall have the authority to reject any work or materials which, in their judgment, are not in full accordance therewith.

**G. Standard Materials**

1.1 All materials shall be new and shall conform to the standards of the Underwriter's Laboratories Inc., PNS, USA, USASI, NEMA, ICEA, UL, ISO, and ASTM in every case where such standards have been established for the material in question.

1.2 The Contractor/ Engineer shall submit samples of any materials for approval.

**H. Installation Requirements**

1.1 Approval of Materials

All electrical materials shall be new and shall meet the requirements and shall bear the inspection label wherever standards have been established.

1.2 Ground Test



The entire installation shall be free from improper grounds and short circuits. These shall be done in the presence of a representative of the Owner. In no case should the insulation resistance be less than that allowed by the Regulation for Electrical Equipment of Buildings. Failure shall be corrected in a manner satisfactory to the Engineer.

**1.3 Performance Test**

It shall be the responsibility of the Contractor to test the electrical installation for proper operational conditions.

**I. Wires and Cables**

- 1.1 All wires shall be copper soft drawn and annealed, shall be of 99% conductivity, shall be smooth and true of a cylindrical form, and shall be within 1% of the actual size called.
- 1.2 Wires and Cables for power system shall be plastic insulated for 600 volts working pressure type "THHN", Phelps dodge brand or approved equal.
- 1.3 All wires 3.5mm sq. or larger shall be stranded.
- 1.4 Provide color coding for all feeder and branch circuit conductors. The color shall be green for grounding conductors.
- 1.5 Provide a grounding conductor for the whole electrical system. The minimum grounding conductor size shall be 3.5mm sq. Unless otherwise specified.

**J. Conduits**

- 1.1 No wire shall be pulled into any conduit until the conduit system is smaller than 15mm diameter electric trade size nor shall have more than four (4) 90-degree bends in any one run and where necessary, pull boxes shall be provided.
- 1.2 All pipes and fittings in exposed work shall be secured using a metal clamp, which shall be held in place using a machine screw. All pipes on exposed work shall be run at right angles to parallel the surrounding walls. No diagonal runs shall be allowed and all bends and offsets shall be avoided as much as possible. Conduits in all cases shall be run perfectly straight and true, and satisfactory to the Engineer. Conduits shall be supported at 1.0m intervals maximum.

**K. Junction and Pull Boxes**

Junction and pull boxes shall be provided as indicated or as required for facilitating the pulling of wires and cables. The location shall be approved by the Engineer.

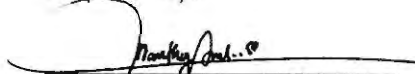
**DIVISION 4**

**SUBMITTALS**


- 4.1 Insulation Test Result, No-Load, and Full Load Test Result, Ground Test Results/Report
- 4.2 As-Built Plans in 20"x 30" Tracing Paper and (5) copies of Blueprint signed and sealed by a Professional Electrical Engineer
- 4.3 AutoCAD file of As-built Plan in USB

**END OF SCOPE OF WORKS**

Prepared by:

  
**Engr. Mark Anthony Q. Amul**  
Registered Electrical Engineer

Recommended by:

  
**John P. Natividad**  
Director, FMSS

September 29, 2023

PROF. JOHN P. NATIVIDAD

Director, Facilities and Management Sustainability Services

Project: UPGRADING OF POWER PANEL AT LIBRARY SECOND FLOOR PERIODICALS SECTION

Subject: Old Panel Board Assessment - Library Second Floor Periodicals Section

Sir,

I am writing to present my observations regarding the Old Panel Board located on the Library Second Floor Periodicals Section of Edilberto T. Dagot Hall, Philippine Normal University. This inspection report outlines the assessment of the existing electrical panel board, highlighting various safety concerns and the need for replacement.

The following are my observations:

**Breaker Leak:**

During the visual inspection, a significant issue was discovered – a leak in multiple circuit breakers within the panel board, including the main circuit breaker situated at the EE Room Ground Floor, adjacent to the FMSS Office. This leakage poses an immediate safety hazard due to the potential for electrical arcing, fire, and damage to connected equipment.

**Improvised Busbar Jumper:**

Another critical concern is the presence of an improvised busbar jumper. This makeshift alteration is unsafe and not compliant with industry standards, significantly increasing the risk of electrical faults, overheating, and fire.

**Mismatched Three-Phase Breakers:**

The panel board contains three-phase breakers with varying ratings within a single circuit. This non-standard configuration can lead to unbalanced loads, overheating, and circuit overloads, posing a severe safety risk.

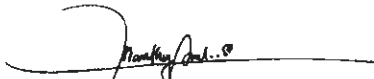
Additional Load:

The inspection revealed the existence of additional loads intended to be connected to the panel board, surpassing its current capacity. These additions include air-conditioning units and extra equipment. This could lead to frequent breaker tripping, overheating, and potential damage to connected devices.

Recommendations:

It is strongly recommended that the existing panel board be replaced with a new, code-compliant panel board capable of meeting the electrical demands of the facility. This replacement will effectively address the safety concerns related to the breaker leak, improvised busbar jumper, and mismatched breakers. Additionally, as part of the panel board replacement, the feeder lines should be upgraded to accommodate the additional load, ensuring safe and reliable power distribution.

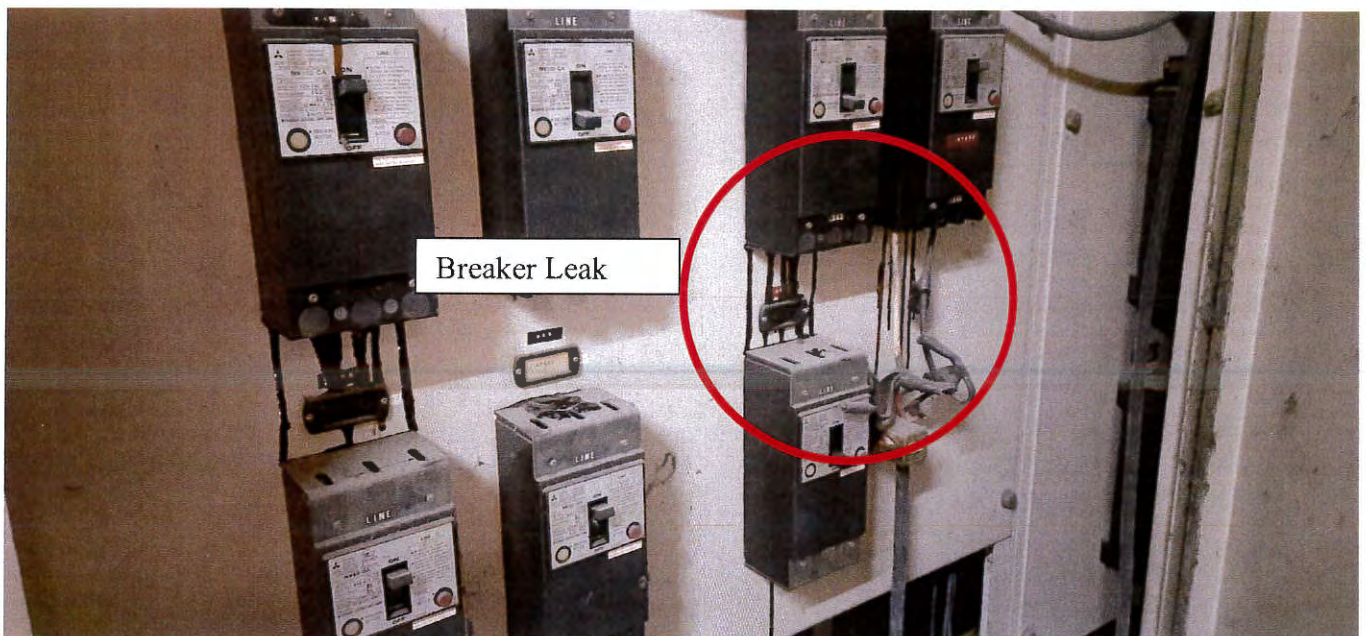
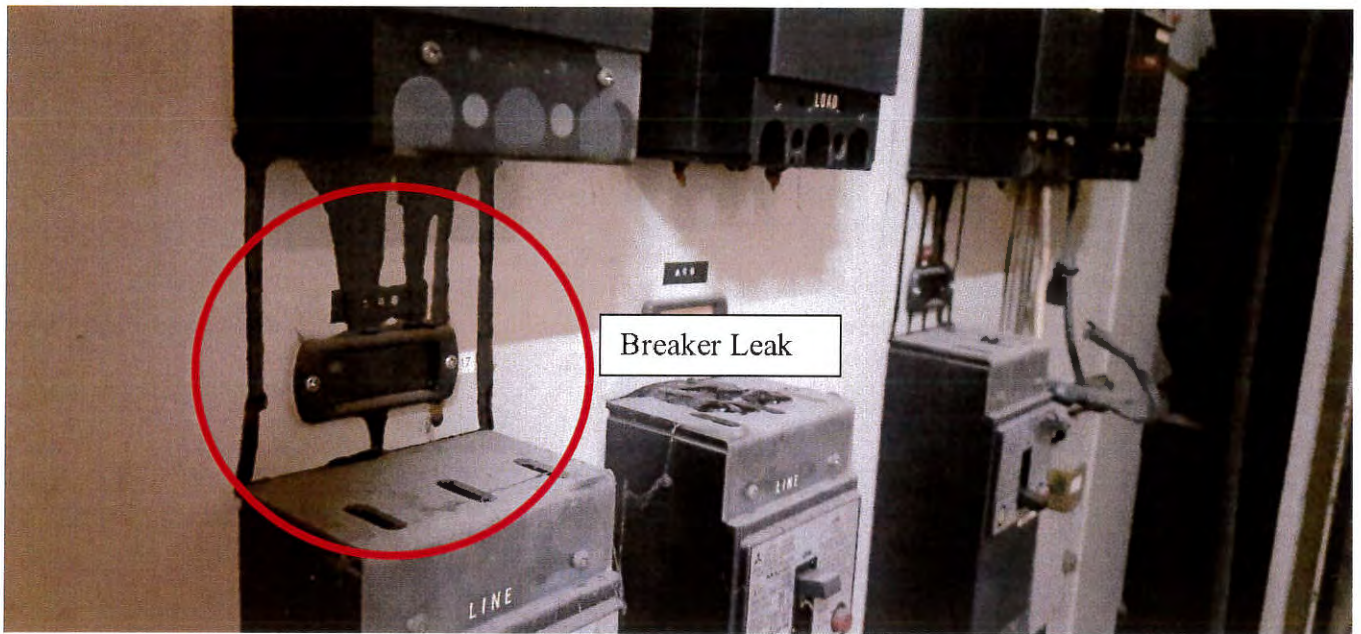
Prepared by:

A handwritten signature in black ink, appearing to read 'Mark Anthony Q. Amul', is written over a horizontal line.

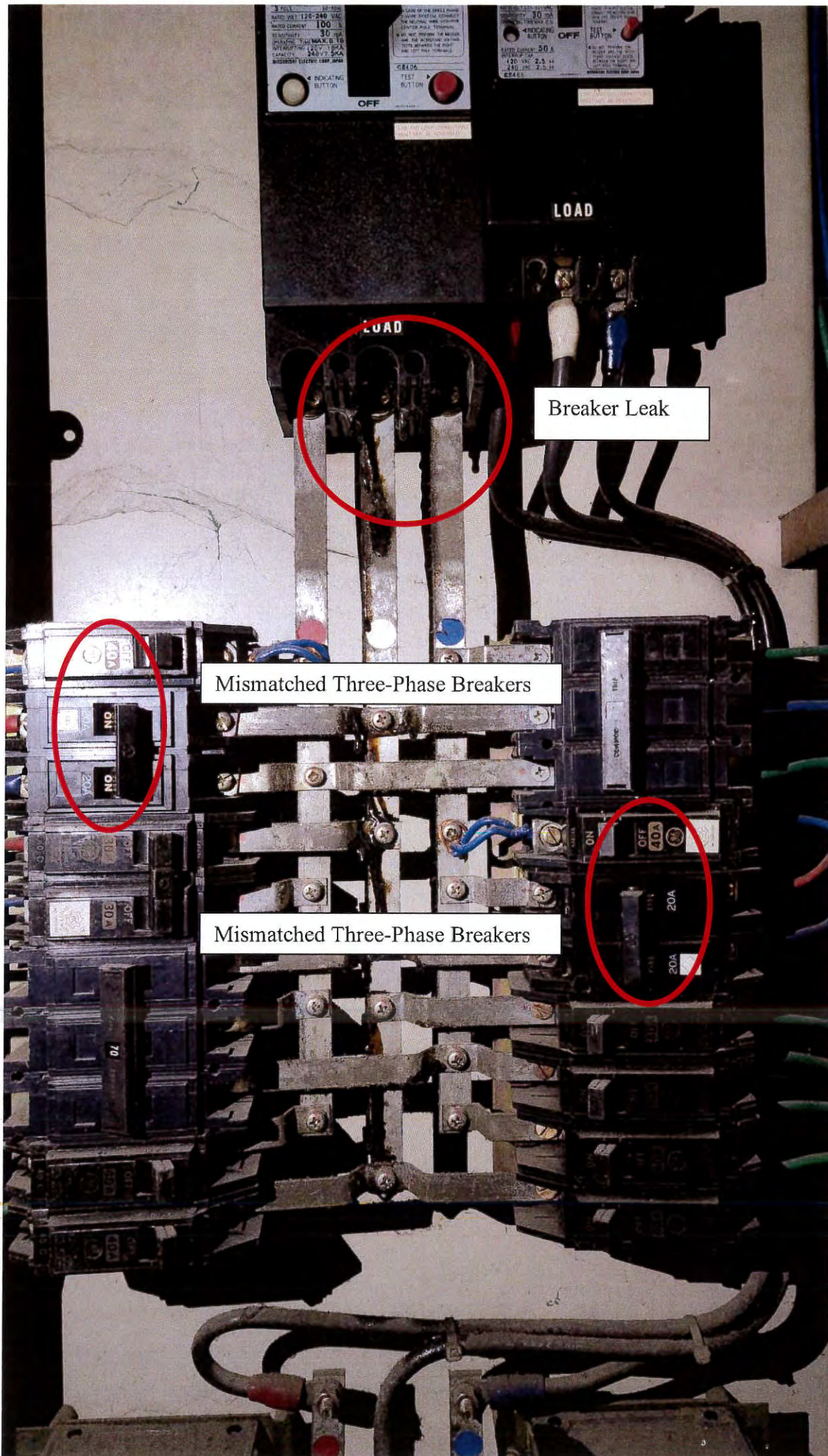
Engr. Mark Anthony Q. Amul  
*Registered Electrical Engineer*



Old Panel Board Assessment - Library Second Floor Periodicals Section  
Attachment Photos





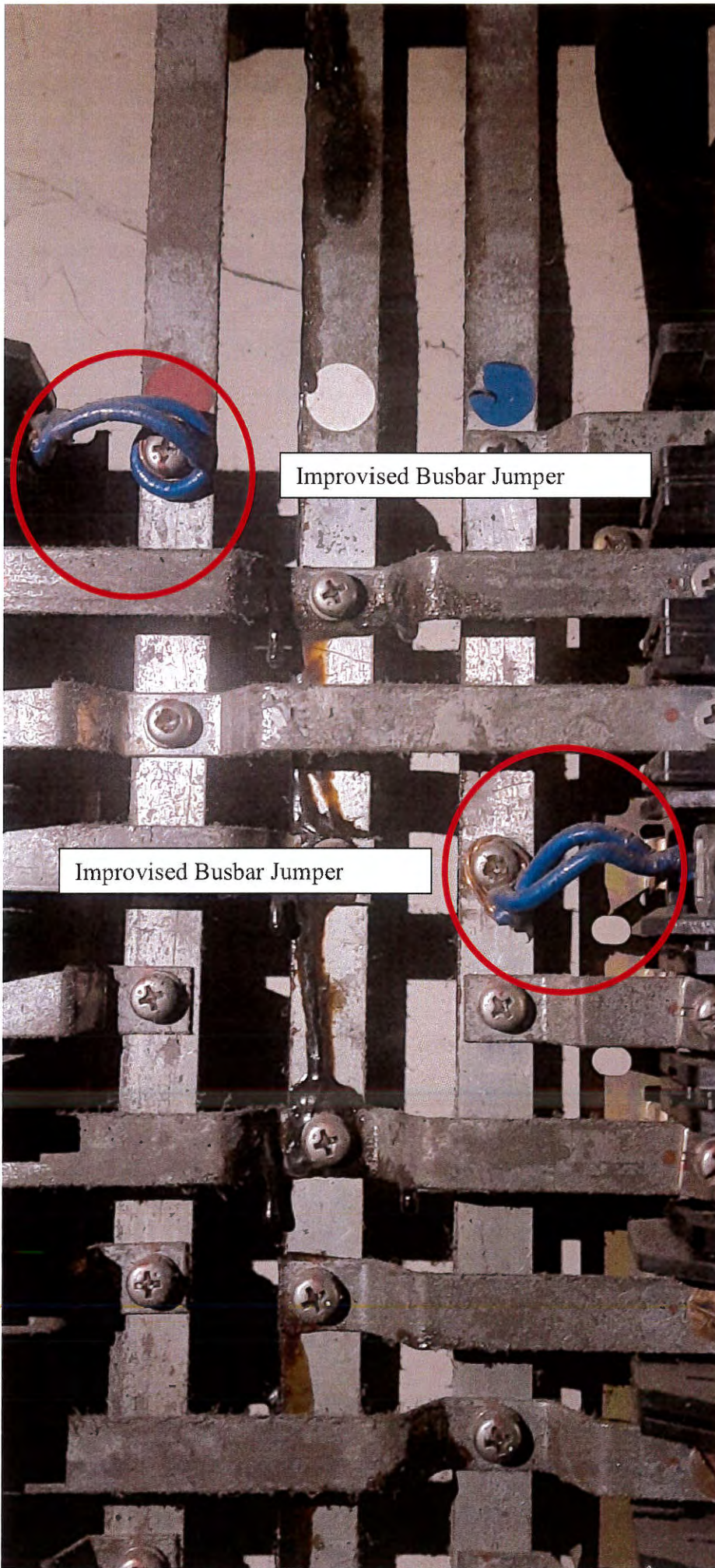


Breaker Leak

Mismatched Three-Phase Breakers

Mismatched Three-Phase Breakers





Improved Busbar Jumper

Improved Busbar Jumper



# 1 SCHEDULE OF LOADS

E-01 NTS

Ckt. No.	Load Description	No. of C.O.	No. of L.O.	Switches				Volts	VA Rating	Ampere Load				Overcurrent Protection			Size of Wire, Ground Wire, and Conduit	
				S1	S2	S3	S3W			ABφ	BCφ	CAφ	3φ	AT	P	AF		
1	PPACU2							230	32062				139.4	160	3	250	USE 2.80 mm <sup>2</sup> THHN Stranded Copper Wire + 1.14 mm <sup>2</sup> TW Ground Wire @ 50 mm Ø uPVC conduit	
2	SPACE							230							3	250		
3	Equipment 3P							230	2500	10.87				40	3	63	USE 3.80 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit	
4	Equipment 3P							230	2500	10.87				40	3	63	USE 3.80 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit	
5	Equipment 2P							230	2000		8.696			32	2	63	USE 2.55 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit	
6	Equipment 2P							230	2000		8.696			32	2	63	USE 2.55 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit	
7	Equipment 2P							230	2000		8.696			32	2	63	USE 2.55 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit	
8	Equipment 2P							230	2000		8.696			32	2	63	USE 2.55 mm <sup>2</sup> THHN Stranded Copper Wire + 1.55 mm <sup>2</sup> TW Ground Wire @ 25 mm Ø uPVC conduit	
9	Convenience Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
10	Convenience Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
11	Convenience Outlet							230	1500		6.522			20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
12	Convenience Outlet							230	1500		6.522			20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
13	Convenience Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
14	Convenience Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
15	Lighting Outlet							230	1000	4.348				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
16	Lighting Outlet							230	1000	4.348				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
17	Lighting Outlet							230	1500		6.522			20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
18	Lighting Outlet							230	1500		6.522			20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
19	Lighting Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
20	Lighting Outlet							230	1500	6.522				20	2	63	USE 2.35 mm <sup>2</sup> THHN Stranded Copper Wire + 1.35 mm <sup>2</sup> TW Ground Wire @ 20 mm Ø uPVC conduit	
TOTAL									62062	43.48	43.48	43.48	139.40					
FULL LOAD CURRENT		139.4 ÷ 1.732 = 80.48 ÷ (0.25 ÷ 1.73) = 80% OF =							205.53									
FEEDER CONDUCTORS		USE 125mm <sup>2</sup> THHN Stranded Copper Wire + 22.0 mm <sup>2</sup> TW Ground Wire @ 75 mm Ø uPVC																
OVERLOAD PROTECTION		USE 1.25SAT, 3P, 240 V, 50 kAIC, 60 Hz, Molded Case Circuit Breaker																

NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT ON MINIATURE TYPE

PACUZ																
Ckt. No.	Load Description	No. of C.O.	No. of L.O.	Switches			Volts	VA Rating	Ampere Load			Overcurrent Protection	Size of Wire, Ground Wire, and Conduit			
				S1	S2	S3	S3W		ABφ	BCφ	CAφ	3φ	AT	P	AF	
1	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
2	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
3	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
4	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
5	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
6	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
7	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
8	3TR FLOOR MOUNTED ACU							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
9	SPARE							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
10	SPARE							230				17	40	3	63	USE 2.8-0.0 mm <sup>2</sup> THHN Stranded Copper Wire + 1.5-5 mm <sup>2</sup> TW Ground Wire @ 32 mm Ø uPVC conduit
TOTAL								230				179	40	3	63	
FULL LOAD CURRENT		1790 ÷ 10.25 = 177 * 80% OF =							139.40							
FEEDER CONDUCTORS		USE 3.80mm <sup>2</sup> THHN Stranded Copper Wire + 14.0 mm <sup>2</sup> TW Ground Wire @ 50mm Ø uPVC														
OVERLOAD PROTECTION		USE 1.150AT, 3P, 240 V, 25 kAIC, 60 Hz, Molded Case Circuit Breaker														

NOTE: ALL BRANCH CIRCUIT BREAKERS ARE BOLT ON MINIATURE TYPE

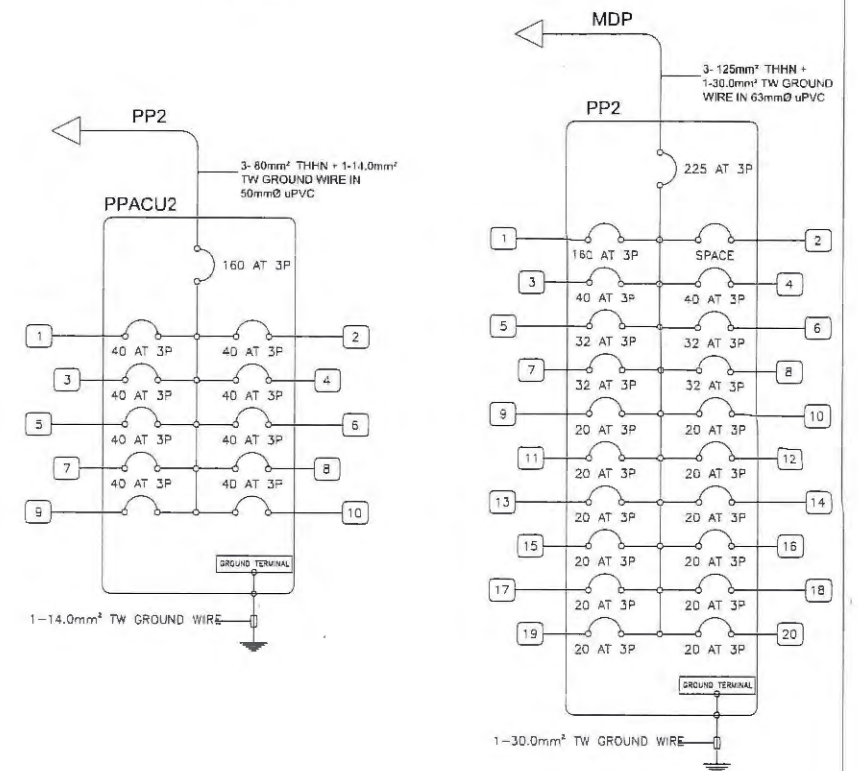
# 2 GENERAL NOTES

E-01 NTS

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS & REQUIREMENT OF THE LOCAL POWER COMPANY & THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.
- UNLESS OTHERWISE SPECIFIED, CONDUCTORS SHALL BE COPPER TYPE THHN 75°C, 600 VOLT INSULATION THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 5.5 MM<sup>2</sup> & 32MM Ø RESPECTIVELY.
- ALL MATERIALS SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR PURPOSE INTENDED.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5MM<sup>2</sup> MINIMUM, UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE METAL CONDUIT FOR ALL EQUIPMENTS WHICH ARE SUBJECTED TO VIBRATION USE LIQUID-TIGHT TYPE FOR WET AND DAMP CONDITION.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL ELECTRICAL EQUIPMENTS TO BE USED HEREIN SHALL BE EQUIPPED WITH PROPER GROUNDING. ALL GROUND WIRES SHALL BE PROPERLY IDENTIFIED BY USING GREEN INSULATION.
- MOUNTING HEIGHTS:  
NEMA 3R ENCLOSURE  
PANEL BOARD  
CONVENIENCE OUTLET  
VERIFY FROM ENGINEER  
1.40 M ABOVE FLOOR FINISH  
.30 M ABOVE FLOOR FINISH
- ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE & SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES & LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ALL WORKS SHALL BE DONE IN THE MOST THOROUGH, PROMPT AND WORKMAN LIKE MANNER IN EMPLOYING STANDARD METHOD AND GOOD ENGINEERING PRACTICES.
- THE WORKS SHALL BE EXECUTED UNDER THE SUPERVISION OF A LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- POWER SUPPLY SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES PLUS GROUND, 60 HERTZ.

# 3 RISER DIAGRAM

E-01 NTS



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

PROJECT TITLE:

UPGRADING OF POWER PANEL AT  
LIBRARY SECOND FLOOR PERIODICALS  
SECTION

PREPARED BY:

MARK ANTHONY Q. AMUL  
ELECTRICAL ENGINEER, FMSS

PRC NUMBER 74155  
PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN P. NATIVIDAD  
DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. CAMPO JR., PH.D.  
VICE-PRESIDENT FOR FINANCE  
AND ADMINISTRATION

APPROVED BY:

BERT L. TUGA, PH.D.  
PRESIDENT

DATE:

SEPT. 29, 2023

CAD BY:

JBC

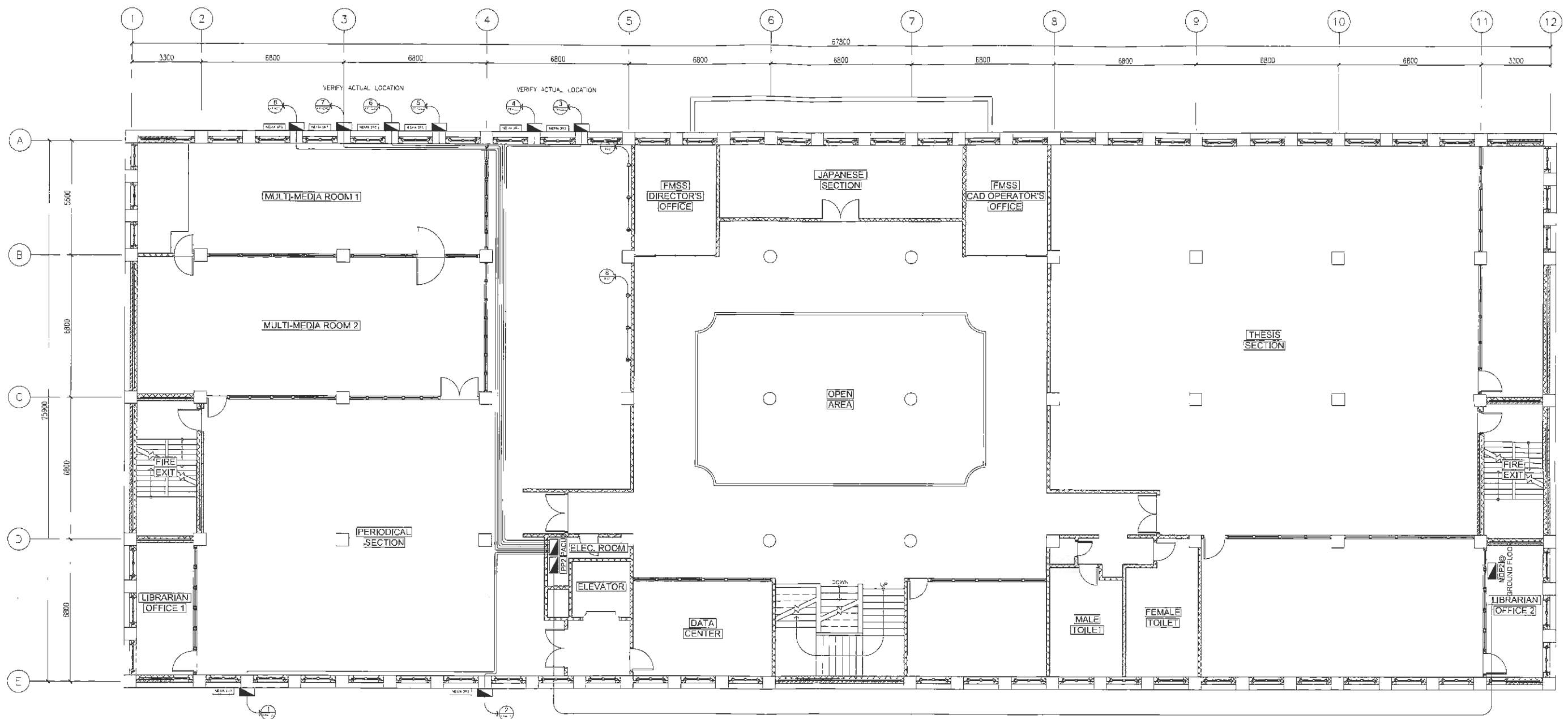
SHEET CONTENTS:

SCHEDULE OF LOADS  
GENERAL NOTES  
RISER DIAGRAM

SHEET NO.:

E-01





EDILBERTO P. DAGOT HALL  
**4 PROPOSED LIGHTING LAYOUT**  
 E-02 NTS



Republic of the Philippines  
 PHILIPPINE NORMAL UNIVERSITY  
 Taft Avenue, Manila

PROJECT TITLE:

UPGRADING OF POWER PANEL AT  
 LIBRARY SECOND FLOOR PERIODICALS  
 SECTION

PREPARED BY:

MARK ANTHONY Q. AMUL  
 ELECTRICAL ENGINEER, FMSS

PRC NUMBER 74155  
 PTR NUMBER MLA 0846421

SUBMITTED BY:

JOHN P. NATIVIDAD  
 DIRECTOR, FMSS

RECOMMENDING APPROVAL:

JOSE M. CAMPO JR., PH.D.  
 VICE-PRESIDENT FOR FINANCE  
 AND ADMINISTRATION

APPROVED BY:

BERT J. TUGA, PH.D.  
 PRESIDENT

DATE:

SEPT. 29, 2023

CAD BY:

JBC

SHEET CONTENTS

POWER LAYOUT

SHEET NO.:

**E-02**



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Mr. LAWRENCE C. LIM**  
**Global-V Builders Co.**  
4546 Quintos Street,  
Brgy. Poblacion, Makati City  
897-0331 / 897-2463 / 897-3088  
[globalv.8888@gmail.com](mailto:globalv.8888@gmail.com)

Dear Mr. Lim:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (School Building Component)** is hereby awarded to **GLOBAL-V BUILDERS CO.** pursuant of BAC Resolution No. CW 2023-10-132-C dated **December 7, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **GLOBAL-V BUILDERS CO.** in the total amount of **Four Million Two Hundred Ninety-Five Thousand One Hundred Seventy-Nine and Seventy-Three Centavos (₱ 4,295,179.73)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 214,758.99); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 1,288,553.92); or
- c. Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative

  
\_\_\_\_\_  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)



**PHILIPPINE NORMAL UNIVERSITY**  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Lowest Calculated and Responsive Bidder  
and Recommending Approval for Award**

**Resolution No. GD 2023-10-132-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading /Procurement of Equipment (School Building Component)** on November 10 – 29, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Four Million Three Hundred Nineteen Thousand Eight Hundred Seventeen Pesos and 22/100 only (P 4,319,817.22)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **17 November 2023 (Friday)** virtually via Zoom App, wherein two (2) interested suppliers attended the Conference, namely:

1. **Global V Builders Co.** represented by Ms. Trixia Mae Paranes
2. **Pinnacle Technologies, Inc.** represented by Mr. Harold Masilang

**WHEREAS**, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids on 29 November 2023 (Wednesday)** at 1:00 PM held at 2<sup>nd</sup> Floor Library Multimedia Room, Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, two (2) bidders bought the Official Bid Documents, and submitted Bid, namely: **Global V Builders Co.** and **Pinnacle Technologies, Inc.**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
One (1) Lot <b>Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading /Procurement of Equipment (School Building Component)</b>  (ABC P 4,319,817,22)	Global V Builders Co.	P 4,295,179.73	Eligible (Rank 1)
	Pinnacle Technologies, Inc.	P 4,297,978.04	Eligible (Rank 2)

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Global V Builders Co.** and **Pinnacle Technologies, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Global V Builders Co.** financial bid amounting to **Four Million Two Hundred Ninety-Five Thousand One Hundred Seventy-Nine Pesos and 73/100 only (P 4,295,179.73)** with an equivalent of 0.57% (P 24,637.49) variance from the ABC was then Ranked No. 1, and **Pinnacle Technologies, Inc.** financial bid amounting to **Four Million Two Hundred Ninety-Seven Thousand Nine Hundred Seventy-Eight Pesos and 04/100 only (P 4,297,978.04)** with an equivalent of 0.51% (P 21,839.18) variance from the ABC was then Ranked No. 2, subject to further evaluation to ascertain, verify, and validate the submitted bid; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

- a. That **GLOBAL V. BUILDERS CO.** be declared as the Lowest Calculated and Responsive Bidder in consideration of its total amount of **Four Million Two Hundred Ninety-Five Thousand One Hundred Seventy-Nine Pesos and 73/100 only (₱ 4,295,179.73) only;**
- b. That the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **GLOBAL V. BUILDERS CO.** to verify, validate and ascertain its bid documents;
- c. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **GLOBAL V. BUILDERS CO.**, upon adoption and approval of this BAC Resolution.

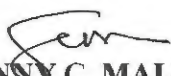
**RESOLVED**, during the Bid Opening and deliberation Meeting held on December 13, 2023, at 2F Library Multimedia Room, Dagot Hall.

**BIDS AND AWARDS COMMITTEE**

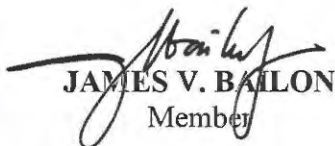
**Resolution No. GD 2023-10-132-C**

  
**LORDINIO A. VERGARA**  
Chair

  
**FLORENCE A. ALLEJOS**  
Member

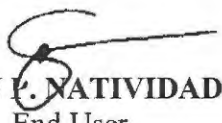
  
**JENNY C. MALITAO**  
Vice-Chair

  
**JENITH M. DE GUZMAN**  
Member

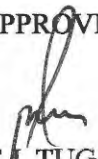
  
**JAMES V. BAILON**  
Member

  
**LEONORA P. NARAG**  
Member

  
**HELEN A. ADVINCULA**  
Member

  
**JOHN P. NATIVIDAD**  
End User

  
**KIMBERLY G. JAMELA**  
Technical Representative

**APPROVED**  
  
**BERT J. TUGA, PhD**  
President





**PHILIPPINE NORMAL UNIVERSITY**  
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## NOTICE TO PROCEED

December 22, 2023

**Mr. LAWRENCE C. LIM**  
**Global-V Builders Co.**  
4546 Quintos Street,  
Brgy. Poblacion, Makati City  
897-0331 / 897-2463 / 897-3088  
[globalv.8888@gmail.com](mailto:globalv.8888@gmail.com)

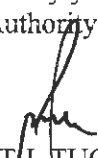
Dear Mr. Lim:

The attached Contract having been approved, notice is hereby given to **GLOBAL-V BUILDERS CO.** that work may commence for the project: **Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (School Building Component)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 12-29-23

Name of the Representative of the Bidder: Lawrence Lim

Authorized Signature: 



PROJECT: Infrastructure and Smart Camus Development.  
Operationalization of Face-to-Face Classes and  
Upgrading/Procurement of Equipment (School Building  
Component)

CONTRACT NO: CW 2023-10-132

### CONTRACT AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

DEC 29 2023

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, 2023 between the PHILIPPINE NORMAL UNIVERSITY (PNU) represented herein by its President Dr. BERT J. TUGA, with Office address at PNU, Taft Avenue, City of Manila, hereinafter called the "ENTITY" and GLOBAL-V BUILDERS CO. represented by its Vice President - Operation, Mr. LAWRENCE C. LIM, duly organized and existing by virtue of the laws of the Republic of the Philippines with office address at 4546 Quintos Street, Brgy. Poblacion, Makati City, hereinafter called the "CONTRACTOR".

WHEREAS, the Philippine Normal University as the premier Teacher Education Institution of the country adapts to the changes brought about by the pandemic and challenges by the new normal by providing teaching and learning. With the changes in the landscape of education including delivery of instruction, PNU thrives in reinventing its infrastructure and facilities to answer the needs in providing quality education in the new normal;

WHEREAS, with the previous grant of CHED under the Smart Campus Project last 2021 which provided the opportunity to all the PNU Campuses to level up their ICT Infrastructure by acquiring ICT equipment and increased internet connectivity to bridge the utilization of the e-PNU (LMS) including facilities improvement specifically the classrooms in the 3<sup>rd</sup> Floor Old ITL School Buildings, as part of the component of the project. This grant gives the University a boost to creativity and innovation in the development and implementation of teaching and learning in the whole PNU System;

WHEREAS, to further sustain the development and upgrades of the University's Facilities along with the ICT Infrastructure and facilities, there is a need to improve and convert the Old ITL classrooms into a conducive learning environment that is suitable for modern set up for teaching and learning such as a virtual teaching laboratory equivalent to high tech classroom wherein it can showcase the digital future of education and facilitate virtual training and interaction within the bounds of physical and digital space;

WHEREAS, the Entity is desirous that the Contractor execute Infrastructure and Smart Camus Development. Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (School Building Component) (CW 2023-10-132) hereinafter called the "WORKS" and the Entity has accepted the Bid for Four Million Two Hundred Ninety-Five Thousand One Hundred Seventy-Nine Pesos and 73/100 only (P 4,295,179.73) by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.





Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:

(a) Philippine Bidding Documents (PBDs);

- i. Drawings/Plans;
- ii. Specifications;
- iii. Bill of Quantities;
- iv. General and Special Conditions of Contract;
- v. Supplemental or Bid Bulletins, if any;

(b) Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

(c) Performance Security;

(d) Notice of Award of Contract and the Bidder's conforme thereto; and

(e) Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

3. In consideration for the sum of **Four Million Two Hundred Ninety-Five Thousand One Hundred Seventy-Nine Pesos and 73/100 only (P 4,295,179.73)** or such other sums as may be ascertained, **Global-V Builders Co.** agrees to the **Infrastructure and Smart Camus Development. Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (School Building Component)** in accordance with his/her/its Bid.

4. The **Philippine Normal University** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

**WHEREAS**, the **CONTRACTOR** has offered his services to **ENTITY** and the latter is willing to accept the services of the former under such terms and conditions prescribed under this contract.

**WHEREAS**, the following documents, hereinafter referred to as Contract Documents, shall be deemed integral parts of this Contract, as fully as if hereto attached or herein stated, and shall continue to govern and control in full force and effect, the rights and obligations of the parties as if the documents were set forth in full, except as otherwise modified by mutual agreement in writing of both parties, to wit;

Annex "A" Settlement of Disputes

Annex "B" Termination of Contracts

This Agreement becomes binding and valid upon approval by the proper authorities.





Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

**IN WITNESS** whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

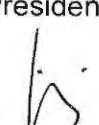
**GLOBAL-V BUILDERS CO.**

  
**LAWRENCE C. LIM**  
Vice President - Operation

  
Witness

**REPUBLIC OF THE PHILIPPINES  
PHILIPPINE NORMAL UNIVERSITY**

  
**BERT J. TUGA**  
President

  
**JOSE M. OCAMPO JR.**  
Vice President for Finance and Administration  
Witness

**CERTIFICATION AS TO AVAILABILITY OF FUNDS**

  
**ARGEA LINN P. PALABRICA**  
Accountant III





Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

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

ACKNOWLEDGEMENT

DEC 29 2023

BEFORE ME, a Notary Public this \_\_\_\_\_ day of \_\_\_\_\_ 2023 at the City  
of MAKATI CITY, personally appeared:

- Name  
1. BERT J. TUGA  
2. LAWRENCE C. LIM

Gov't. ID No./CTC  
POM126582  
No4-93-268655

Issued On/At  
Feb. 18, 2019 / Manila  
Sept. 19, 2023 / Manila

Known to me and to me known to be the same persons who executed the CONTRACT together with the ANNEXES consisting of seven (7) pages including this page of acknowledgement and they acknowledged to me that the same is their free and voluntary act and deed, as well as the free act and deed of the entities they represent respectively.

WITNESS MY HAND AND SEAL on the date and place first above written.

NOTARY PUBLIC  
Until 31 December 2023  
PTR No. \_\_\_\_\_

Doc No. 319  
Page No. 05  
Book No. 113  
Series of 2023

Melvin C. Malabanan  
Notary Public for Makati City  
Appointment No M 079  
Until December 31, 2024  
4298 Emilia cor Bautista, Palanan, Makati City  
PTR No 956087/ Jan 5 2023  
IBP No 281826/Jan 10 2023  
MCLE VII 0029286 Valid Until April 14, 2025  
Roll No 58312



## ANNEX A: SETTLEMENT OF DISPUTES

### Arbitration

If any dispute or difference of any kind whatsoever shall arise between the parties in connection with the implementation of the contract covered by the Act and this IRR, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

Any and all disputes arising from the implementation of a contract covered by the Act and this IRR shall be submitted to arbitration in the Philippines according to the provisions of R.A. 876, otherwise known as the "Arbitration Law" and R.A. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004": Provided, however, that disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be referred thereto. The process of arbitration shall be incorporated as a provision in the contract that will be executed pursuant to the provisions of the Act and this IRR: Provided, further, that by mutual agreement, the parties may agree in writing to resort to other alternative modes of dispute resolution.

### Appeals

The arbitral award and any decision rendered in accordance with the foregoing Section shall be appealable by way of a petition for review to the Court of Appeals. The petition shall raise pure questions of law and shall be governed by the Rules of Court.

WITNESS

LAWRENCE C. LIM  
CONTRACTOR

JOSE M. OCAMPO JR.  
VP-FA

BERT J. PUGA  
PRESIDENT





## ANNEX B: TERMINATION OF CONTRACTS

### GROUND FORS FOR TERMINATION OF CONTRACTS

#### A. Termination for Default

The Procuring Entity shall terminate a contract for default when any of the following conditions attend its implementation:

- a) Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in accordance with Presidential Decree 1870;
- b) Due to the Contractor's fault and after the contract time has expired, it has incurred a negative slippage of ten percent (10%) or more in the completion of the work; or
- c) The Contractor:
  - i. abandons the contract works, refuses or fails to comply with a valid instruction of the Procuring Entity or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;
  - ii. does not actually have on the project site the minimum essential equipment listed on the Bid necessary to prosecute the Works in accordance with the approved work plan and equipment deployment schedule as required for the project;
  - iii. does not execute the Works in accordance with the contract or persistently or flagrantly neglects to carry out its obligations under the contract;
  - iv. neglects or refuses to remove materials or to perform a new work that has been rejected as defective or unsuitable; or
  - v. sub-lets any part of the contract works without approval by the Procuring Entity.

#### B. Termination for Convenience

The Procuring Entity may terminate the Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.

#### C. Termination for Insolvency

The Procuring Entity shall terminate the contract if the Supplier/Contractor/Consultant is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier/Contractor/Consultant, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier/Contractor/Consultant.



**D. Termination for Unlawful Acts**

The Procuring Entity may terminate the contract in case it is determined prima facie that the Supplier/Contractor/Consultant has engaged, before or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:

- a) Corrupt, fraudulent, collusive and coercive practices;
- b) Drawing up or using forged documents;
- c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
- d) Any other act analogous to the foregoing.

**E. Termination by Contractor/Consultant**

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

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

WITNESS

LAWRENCE C. LIM  
CONTRACTOR

JOSE M. OCAMPO JR.  
VP-FA

BERT J. TUGA  
PRESIDENT



**PHILIPPINE NORMAL UNIVERSITY**  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

August 11, 2023

**Ms. ROSITA C. ABANICO**

**Andy's Studio**

No. 7 Alegre St., Brgy. 11 Poblacion,  
Batangas City

Dear Ms. Abanico:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Procurement of Yearbook and Graduation Picture Package for the 2023 Graduating Class** is hereby awarded to **ANDY'S STUDIO** pursuant of BAC Resolution No. GD 2023-07-081-B dated August 8, 2023.


Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **ANDY'S STUDIO** in the total amount of **One Million One Hundred Two Thousand Nine Hundred Sixteen Pesos and 11/100 only (₱ 1,102,916.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 55,145.80); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 330,874.80); or
- c. Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

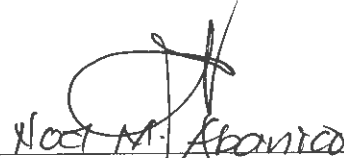
Very truly yours,

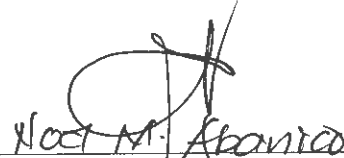
By Authority of the Board of Regents:

  
**BERT J. TUGA**

President

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative

  
\_\_\_\_\_  
8/11/2023  
Date





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD 2023-7-081-C**

WHEREAS, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Procurement of Yearbook and Graduation Picture Package for the 2023 Graduating Class** on July 15-August 3, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **One Million Four Hundred Thirty Thousand Six Hundred Pesos (Php 1,430,600.00)** for the contract;

WHEREAS, a **Pre-Bid Conference** was conducted last **21 July 2023 (Friday)** virtually via Zoom application, wherein eight (8) interested suppliers attended the Conference, namely:

1. **EJC Photo and Video Studio** represented by Mr. Emil Joseph Charles Abat (studiopixelight@gmail.com)
2. **Midtown Printing Co.** represented by Mr. Bryan James De Castro (bryanjames.sales@gmail.com)
3. **Andy's Studio** represented by Mr. Noel M. Abanico (andy.studio@yahoo.com)
4. **Photo X Media** represented by Ms. Maggie Edra (info@pxmstudios.net)
5. **Still Life Photography** represented by Mr. Joel Yap (stilllifephotography14@gmail.com)
6. **The Street Studios Co.** represented by Mr. Joseph Tristan Vidallon (thestreetstudios.ph@gmail.com)
7. **Top Lens Photography Studio** represented by Ms. Angelique C. Santiago (toplensstudio@gmail.com)
8. **Portraiture Photography Studio** represented by Mx. Justine Clifford "Cassey" Alonzo (portraiturephotographystudio@gmail.com)

WHEREAS, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **3 August 2023 (Thursday)** at **10:00 AM** held at the **2<sup>nd</sup> Floor, Library Multimedia Room, Dagot Hall;**

WHEREAS, during the scheduled Opening of Bids, four (4) prospective bidders bought the Official Bid Documents, and only three (3) bidders submitted their official bids before the deadline of submission, namely: **Andy's Studio, Photo X Media and Portraiture Photography Studio;**

WHEREAS, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 - Yearbook (ABC: ₱ 730,600.00)	Andy's Studio Photo X Media Portraiture Photography Studio	628,316.00 - -	Eligible Ineligible Ineligible
Lot 2 - Graduation Pictorial Package (ABC: ₱ 700,000.00)	Andy's Studio Photo X Media Portraiture Photography Studio	474,600.00 - -	Eligible Ineligible Ineligible

WHEREAS, during the **detailed Technical Evaluation** conducted by the Technical Representative, **Andy's Studio and Photo X Media** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents while **Portraiture Photography Studio** failed to complied in the technical evaluation;

WHEREAS, upon arithmetical computation, **Andy's Studio** Financial Bid for Lot 1 amounting to **Six Hundred Twenty-Eight Thousand Three Hundred Sixteen pesos and 00/100 only (₱ 628,316.00)** with an equivalent of **14% (₱ 102,284.00)** variance and for Lot 2 amounting to **Four Hundred Seventy-Four Thousand Six Hundred pesos and 00/100 only (₱ 474,600.00)** with an equivalent of **32.2% (₱ 225,400.00)** variance from the ABC was then Ranked No. 1 for Lot 1 and Lot 2, subject to further evaluation to ascertain, verify, and validate the submitted bid;



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

WHEREAS, the two (2) bidders namely **Photo X Media** and **Portraiture Photography Studio** failed to submit the required documentary requirements during the bid opening and declared **INELIGIBLE** due to incompliance to submit the lacked documents after filing the Motion for Reconsideration;

NOW, THEREFORE, WE, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **ANDY'S STUDIO** be declared as the Single Calculated Responsive Bid in consideration of its total amount for Lot 1 (Yearbook) of Bid equal to **Six Hundred Twenty-Eight Thousand Three Hundred Sixteen pesos and 00/100 only (₱ 628,316.00)**;
- b. That **ANDY'S STUDIO** be declared as the Single Calculated Responsive Bid in consideration of its total amount for Lot 2 (Graduation Picture Package) of Bid equal to **Four Hundred Seventy-Four Thousand Six Hundred pesos and 00/100 only (₱ 474,600.00)**;
- c. That we, the members of the Bids & Awards Committee (BAC), as per Special Order No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **ANDY'S STUDIO**, upon adoption and approval of this BAC Resolution.
- e. To recommend the foregoing for the approval of the President of the Philippine Normal University


**RESOLVED**, during the Emergency Meeting held on **August 11, 2023**, virtually via Zoom application.

**BIDS AND AWARDS COMMITTEE**

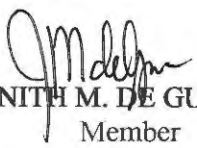
Resolution No. GD 2023-07-081-C


  
**LORDINIO A. VERGARA**  
Chair

  
**HELEN A. ADVINCULA**  
Member

  
**JENNY C. MALITAO**  
Vice-Chair

  
**FLORENCE A. ALLEJOS**  
Member

  
**JENITH M. DE GUZMAN**  
Member


  
**JAMES V. BAILON**  
Member

  
**LEONORA P. NARAG**  
Member

  
**TERESITA T. RUNGDUIN**  
End-User

  
**ERNEST DAVE A. TENORIO**  
Technical Representative

**APPROVED**

  
**BERT J. TUGA**  
University President



**PHILIPPINE NORMAL UNIVERSITY**  
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## NOTICE TO PROCEED

August 15, 2023

**Ms. ROSITA C. ABANICO**  
**Andy's Studio**  
No. 7 Alegre St., Brgy. 11 Poblacion  
Batangas City


Dear Ms. Abanico:


The attached Contract having been approved, notice is hereby given to **ANDY'S STUDIO** that work may commence for the project: **Procurement of Yearbook and Graduation Picture Package for the 2023 Graduating Class** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 8/22/2023  
Name of the Representative of the Bidder: Rosita C. Abanico  
Authorized Signature: 





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Taft Avenue, Manila

**PROJECT:** Procurement of Yearbook and Graduation Picture Package  
for the 2023 PNU Graduating Class

**CONTRACT NO:** GD 2023-07-081

## CONTRACT AGREEMENT AUG 22 2023

**THIS AGREEMENT** made the \_\_\_\_\_ day of \_\_\_\_\_ 2023  
between **PHILIPPINE NORMAL UNIVERSITY** of the Philippines, hereinafter called "the  
**Entity**" of the one part and **ANDY'S STUDIO** of No. 7 Alegre St. Brgy. 11 Poblacion,  
Batangas City, hereinafter called "the **Supplier**" of the other part;

**WHEREAS**, the Philippine Normal University will commemorate its 115<sup>th</sup>  
Commencement Exercises on August 24-25, 2023 with the theme "Future-proofing Teacher  
Education: Creating Opportunities to Optimize Learning" and through the Office of the  
Students Affairs and Student Services (OSASS) and PNU Senior's Committee it intends to  
procure a yearbook and graduation picture package for graduating class of Batch 2023;

**WHEREAS**, the yearbook and graduation photos are regarded as a part of each  
graduating student's memory to mark the significant events in their lives and serve as an  
inspiration and connection to their time spent in college, it serves as a priceless means to  
preserve memories, a physical reminder of time spent in college that will bring years of  
happiness, and a source of nostalgia that makes it easier to recall school days and rekindle  
relationships with former classmates and friends;

**WHEREAS**, the Entity invited Bids for certain goods and ancillary services,  
particularly the **Procurement of Yearbook and Graduation Picture Package for 2023 PNU  
Graduating Class (GD 2023-07-081)** and has accepted a Bid by the Supplier for the supply  
of those goods and services in the sum of **One Million One Hundred Two Thousand Nine  
Hundred Sixteen pesos and 00/100 only (P 1,102,916.00)** (hereinafter called "the Contract  
Price").

### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are  
respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules  
and Regulations of Republic Act No. 9184 shall be deemed to form and be read  
and construed as integral part of this Agreement, viz.:
  - i. Philippine Bidding Documents (PBDs);
    - i. Schedule of Requirements;
    - ii. Technical Specifications;
    - iii. General and Special Conditions of Contract; and
    - iv. Supplemental or Bid Bulletins, if any
  - ii. Winning bidder's bid, including the Eligibility requirements, Technical and  
Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's  
bidding envelopes, as annexes, and all other documents submitted (e.g.,  
Bidder's response to request for clarifications on the bid), including  
corrections to the bid, if any, resulting from the Procuring Entity's bid  
evaluation;

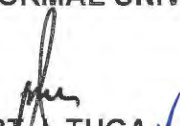


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**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
Taft Avenue, Manila

- iii. Performance Security;
  - iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
  - v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
3. In consideration for the sum of **One Million One Hundred Two Thousand Nine Hundred Sixteen pesos and 00/100 only (P 1,102,916.00)** or such other sums as may be ascertained, **ANDY'S STUDIO** agrees to **Procurement of Yearbook and Graduation Picture Package for 2023 PNU Graduating Class** in accordance with his/her/its Bid.
4. The **Philippine Normal University** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.


**IN WITNESS** whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

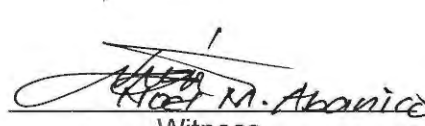
**PHILIPPINE NORMAL UNIVERSITY**

  
**BERT J. TUGA**  
University President

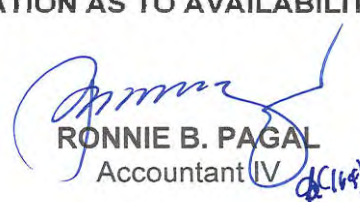
  
**JOSE M. OCAMPO, JR.**  
Vice President for Finance and Administration

**ANDY'S STUDIO**

  
**ROSITA C. ABANICO**  
Proprietor

  
**Rosita C. Abanico**  
Witness

**CERTIFICATION AS TO AVAILABILITY OF FUND**

  
**RONNIE B. PAGAL**  
Accountant IV *q.c. (1/4)*





**ACKNOWLEDGEMENT**

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

ACKNOWLEDGEMENT

**AUG 22 2023**

**BEFORE ME**, a Notary Public this \_\_\_\_\_ day of \_\_\_\_\_ 2023 at the city of MANILA, personally appeared:

- Name  
1. **BERT J. TUGA**  
2. **ROSITA C. ABANICO**

Gov't. ID No./CTC      Issued On/At  
P0712658B      18 Feb. 2019 - DFA Manila  
P0941773      20 July, 2022 - PRC Manila

Known to me and to me known to be the same persons who executed the CONTRACT together with the ANNEXES consisting of seven (7) pages including this page of acknowledgement and they acknowledged to me that the same is their free and voluntary act and deed, as well as the free act and deed of the entities they represent respectively.

**WITNESS MY HAND AND SEAL** on the date and place first above written.

**NOTARY PUBLIC**  
**Until 31 December 2023**  
**PTR No.** \_\_\_\_\_

Doc No. 110  
Page No. 22  
Book No. X  
Series of 2023

**ATTY. JOHN EDWARD TRINIDAD ANG**  
Notary Public for City of Manila/ Until 12-31-2024  
Notarial Commission No. 2023-091  
ROLL NO. 68731 MCLE COMPLIANCE NO VII-0011675  
IBP NO. 293899-01/10/2023- Pasig City  
P.T.R. NO. 0822023-Jan.3, 2023 Manila  
2nd Floor Midland Plaza Hotel, Adriatico St., Ermita, Mla.





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Taft Avenue, Manila

## ANNEX A: SETTLEMENT OF DISPUTES

### Arbitration

If any dispute or difference of any kind whatsoever shall arise between the parties in connection with the implementation of the contract covered by the Act and this IRR, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

Any and all disputes arising from the implementation of a contract covered by the Act and this IRR shall be submitted to arbitration in the Philippines according to the provisions of R.A. 876, otherwise known as the "Arbitration Law" and R.A. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004": Provided, however, that disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be referred thereto. The process of arbitration shall be incorporated as a provision in the contract that will be executed pursuant to the provisions of the Act and this IRR: Provided, further, that by mutual agreement, the parties may agree in writing to resort to other alternative modes of dispute resolution.

### Appeals

The arbitral award and any decision rendered in accordance with the foregoing Section shall be appealable by way of a petition for review to the Court of Appeals. The petition shall raise pure questions of law and shall be governed by the Rules of Court.



## ANNEX B: TERMINATION OF CONTRACTS

### GROUNDINGS FOR TERMINATION OF CONTRACTS

#### A. Termination for Default

The Procuring Entity shall terminate a contract for default when any of the following conditions attend its implementation:

- a) Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in accordance with Presidential Decree 1870;
- b) Due to the Contractor's fault and after the contract time has expired, it has incurred a negative slippage of ten percent (10%) or more in the completion of the work; or
- c) The Contractor:
  - i. abandons the contract works, refuses or fails to comply with a valid instruction of the Procuring Entity or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;
  - ii. does not actually have on the project site the minimum essential equipment listed on the Bid necessary to prosecute the Works in accordance with the approved work plan and equipment deployment schedule as required for the project;
  - iii. does not execute the Works in accordance with the contract or persistently or flagrantly neglects to carry out its obligations under the contract;
  - iv. neglects or refuses to remove materials or to perform a new work that has been rejected as defective or unsuitable; or
  - v. sub-lets any part of the contract works without approval by the Procuring Entity.

#### B. Termination for Convenience

The Procuring Entity may terminate the Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.

#### C. Termination for Insolvency

The Procuring Entity shall terminate the contract if the Supplier/Contractor/Consultant is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier/Contractor/Consultant, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier/Contractor/Consultant.



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Taft Avenue, Manila

  
Noel M. Abanico  
Witness

#### D. Termination for Unlawful Acts

The Procuring Entity may terminate the contract in case it is determined prima facie that the Supplier/Contractor/Consultant has engaged, before or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:

- a) Corrupt, fraudulent, collusive and coercive practices;
- b) Drawing up or using forged documents;
- c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
- d) Any other act analogous to the foregoing.

#### E. Termination by Contractor/Consultant

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

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

  
ROSITA C. ABANICO  
Proprietor

  
JOSE M. OCAMPO, JR.  
VP for Finance and Administration

  
BERT J. YUGA  
President





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Mr. ALAN G. ARQUILLO, JR.**  
**Gammaa A. Builders**  
Lot 1 Blk 106 Andrew  
Avenue, Pasay City  
254-3911 / 0976-0694729  
[gammaa.mnl@gmail.com](mailto:gammaa.mnl@gmail.com)

Dear Mr. Arquillo:

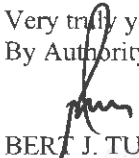
We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Repair and Improvement of Worship Space** is hereby awarded to **GAMMAA A. BUILDERS** pursuant of BAC Resolution No. GD 2023-10-133-C dated **December 7, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **GAMMAA A. BUILDERS** in the total amount of **Three Million Three Hundred Thirty-Three Thousand One Peso and Fourteen Centavos (₱ 3,333,001.14)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank; provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 166,650.06); or
- Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 999,900.34); or
- Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
Alan G. Arquillo Jr.  
Name of Authorized Representative

Dec. 18, 2023  
Date



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Lowest Calculated and Responsive Bidder  
and Recommending Approval for Award**

**Resolution No. GD 2023-10-133-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Repair and Improvement of Worship Space** on November 10 – 29, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Three Million Four Hundred Ninety-Nine Thousand Two Hundred Seventy-One Pesos and 45/100 only (₱ 3,499,271.45)** for the contract;

**WHEREAS**, a Pre-Bid Conference was conducted last **17 November 2023 (Friday)** virtually via Zoom App, wherein two (2) interested suppliers attended the Conference, namely:

1. **Global V Builders Co.** represented by Ms. Ma. Angela Miraflores  
(globalv.8888@gmail.com)
2. **Gammaa A Builders** represented by Mr. Alan G. Ronquillo Jr.  
(gamma.mnl@gmail.com)

**WHEREAS**, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids on 29 November 2023 (Wednesday)** at 3:00 PM held at 2<sup>nd</sup> Floor Library Multimedia Room, Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, two (2) bidders bought the Official Bid Documents, and submitted Bid, namely: **Global V Builders Co. and Gammaa A Builders.**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
One (1) Lot <b>Repair and Improvement of Worship Space</b>  (ABC ₱ 4,319,817.22)	Global V Builders Co.	₱ 3,475,283.41	Eligible (Rank 2)
	Gammaa A Builders	₱ 3,333,001.14	Eligible (Rank 1)

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Global V Builders Co. and Gammaa A Builders** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Global V Builders Co.** final financial bid after the detailed computation is amounting to **Three Million Four Hundred Twenty-Nine Thousand Two Hundred Forty Pesos and 21/100 only (₱ 3,429,240.21)** with an equivalent of 2.00% (₱ 70,031.24) variance from the ABC was then Ranked No. 2, and **Gamma A Builders** financial bid amounting to **Three Million Three Hundred Thirty-Three Thousand One Pesos and 14/100 only (₱ 3,333,001.14)** with an equivalent of 4.75% (₱ 166,270.31) variance from the ABC was then Ranked No.1 , subject to further evaluation to ascertain, verify, and validate the submitted bid; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **GAMMAA A BUILDERS** be declared as the Lowest Calculated and Responsive Bidder in consideration of its total amount of **Three Million Three Hundred Thirty-Three Thousand One Pesos and 14/100 only (₱ 3,333,001.14)** only;

*(All document without PNU QS Stamp or Control Identifier are uncontrolled)*



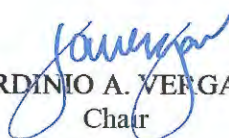
**PHILIPPINE NORMAL UNIVERSITY**  
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Taft Avenue, Manila  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

- b. That the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **GAMMAA A BUILDERS** to verify, validate and ascertain its bid documents; and
- c. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **GAMMAA A BUILDERS**, upon adoption and approval of this BAC Resolution.

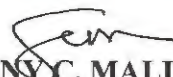
**RESOLVED**, during the Bid Opening and deliberation Meeting held on December 13, 2023, at 2F Library Multimedia Room, Dagot Hall.

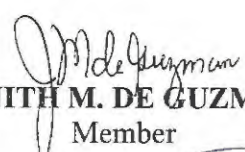
**BIDS AND AWARDS COMMITTEE**

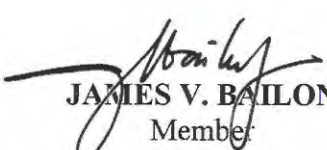
Resolution No. GD 2023-10-133-C


  
**LORDINIO A. VERGARA**  
Chair

  
**FLORENCIO A. ALLEJOS**  
Member


  
**JENNY C. MALITAO**  
Vice-Chair


  
**JENITH M. DE GUZMAN**  
Member

  
**JAMES V. BAILON**  
Member


  
**LEONORA P. NARAG**  
Member

  
**HELENA A. ADVINCULA**  
Member

  
**JOHN P. NATIVIDAD**  
End User

  
**KIMBERLY G. JAMELA**  
Technical Representative

**APPROVED**

  
**BERT J. TUGA, PhD**  
President





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE TO PROCEED

December 20, 2023

**Mr. ALAN G. ARQUILLO, JR.**  
**Gammaa A. Builders**  
Lot 1 Blk 106 Andrew  
Avenue, Pasay City  
254-3911 / 0976-0694729  
[gammaa.mnl@gmail.com](mailto:gammaa.mnl@gmail.com)


Dear Mr. Arquillo:

The attached Contract having been approved, notice is hereby given to **GAMMAA A. BUILDERS** that work may commence for the project: **Repair and Improvement of Worship Space** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

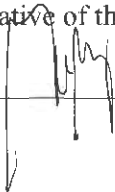
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 01-19-24

Name of the Representative of the Bidder: \_\_\_\_\_

Authorized Signature:  ALAN C. ARQUILLO



PROJECT: Repair and Improvement of Worship Space  
CONTRACT NO: CW 2023-10-133

CONTRACT AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

THIS AGREEMENT, made this 19 JAN 2024, 2024 between the PHILIPPINE NORMAL UNIVERSITY (PNU) represented herein by its President **Dr. BERT J. TUGA**, with Office address at PNU, Taft Avenue, City of Manila, hereinafter called the "ENTITY" and **GAMMA A BUILDERS** represented by its Authorized Representative, **Mr. ALAN G. ARQUILLO, JR.**, duly organized and existing by virtue of the laws of the Republic of the Philippines with office address at 2F 246 Andrew Avenue, Brgy. 185, Pasay City, hereinafter called the "CONTRACTOR".

WHEREAS, the PNU seeks to continuously improve its service to stakeholders, and one way of achieving this is to renovate the existing facilities in the university. The renovation of the existing facilities is also part of developing the campus in terms of aesthetics and environment, particularly the worship space in the university;

WHEREAS, a place of worship is a specially created building or area where people or a group of people gather to engage in devotional, veneration, religious, or other acts that give distinctive worship experiences and inspire people to celebrate their own faith traditions;

WHEREAS, the Entity is desirous that the Contractor execute **Repair and Improvement of Worship Space (CW 2023-10-133)** hereinafter called the "WORKS" and the Entity has accepted the Bid for **Three Million Three Hundred Thirty-Three Thousand One Pesos and 14/100 only (P 3,333,001.14)** by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - Philippine Bidding Documents (PBDs);
    - Drawings/Plans;
    - Specifications;
    - Bill of Quantities;
    - General and Special Conditions of Contract;
    - Supplemental or Bid Bulletins, if any;
  - Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;  
  
Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

- (c) Performance Security;
- (d) Notice of Award of Contract and the Bidder's conforme thereto; and
- (e) Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
3. In consideration for the sum of **Three Million Three Hundred Thirty-Three Thousand One Pesos and 14/100 only (P 3,333,001.14)** or such other sums as may be ascertained, **Gammaa A Builders** agrees to the **Repair and Improvement of Worship Space** in accordance with his/her/its Bid.
4. The **Philippine Normal University** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

**WHEREAS**, the **CONTRACTOR** has offered his services to **ENTITY** and the latter is willing to accept the services of the former under such terms and conditions prescribed under this contract.

**WHEREAS**, the following documents, hereinafter referred to as Contract Documents, shall be deemed integral parts of this Contract, as fully as if hereto attached or herein stated, and shall continue to govern and control in full force and effect, the rights and obligations of the parties as if the documents were set forth in full, except as otherwise modified by mutual agreement in writing of both parties, to wit;

Annex "A" Settlement of Disputes

Annex "B" Termination of Contracts

This Agreement becomes binding and valid upon approval by the proper authorities.

**IN WITNESS** whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

**GAMMAA A BUILDERS**

**REPUBLIC OF THE PHILIPPINES  
PHILIPPINE NORMAL UNIVERSITY**

**ALAN G. ARQUILLO, JR.**  
Authorized Representative

**BERT J. TUGA**  
President

**JOSE M. OCAMPO JR.**  
Vice President for Finance and Administration  
Witness

Witness

**CERTIFICATION AS TO AVAILABILITY OF FUNDS**

**ARGEALINN P. PALABRICA**  
Accountant III





Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

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

ACKNOWLEDGEMENT

BEFORE ME, a Notary Public this 19 JAN 2024 day of \_\_\_\_\_ 2024 at the City of \_\_\_\_\_, personally appeared:

Name	Gov't. ID No./CTC	Issued On/At
1. BERT J. TUGA	<u>P 712658B</u>	<u>Feb. 18, 2019 / Manila</u>
2. ALAN G. ARQUILLO, JR.	<u>UB 19 013700</u>	<u>Ttl 5 / 18/33</u>

Known to me and to me known to be the same persons who executed the CONTRACT together with the ANNEXES consisting of six (6) pages including this page of acknowledgement and they acknowledged to me that the same is their free and voluntary act and deed, as well as the free act and deed of the entities they represent respectively.

WITNESS MY HAND AND SEAL on the date and place first above written.

NOTARY PUBLIC  
Until 31 December 2024  
PTR No. \_\_\_\_\_

Doc No. 386  
Page No. 78  
Book No. XXXIII  
Series of 2024

ATTY. JOHN EDWARD TRINIDAD ANG  
Notary Public for City of Manila- Until 12-31-2024  
Notarial Commission No. 2024-091  
2nd Floor Midland Plaza Hotel, Adriatico St., Ermita, Mla.  
IBP NO. 393541-01/03/2024 Pasig City  
P.T.R. NO. 1535522-Jan 3, 2024 Manila  
ROLL NO. 68731 .MCLE COMPLIANCE NO. VII-0011675



## ANNEX A: SETTLEMENT OF DISPUTES

### Arbitration

If any dispute or difference of any kind whatsoever shall arise between the parties in connection with the implementation of the contract covered by the Act and this IRR, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

Any and all disputes arising from the implementation of a contract covered by the Act and this IRR shall be submitted to arbitration in the Philippines according to the provisions of R.A. 876, otherwise known as the "Arbitration Law" and R.A. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004": Provided, however, that disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be referred thereto. The process of arbitration shall be incorporated as a provision in the contract that will be executed pursuant to the provisions of the Act and this IRR: Provided, further, that by mutual agreement, the parties may agree in writing to resort to other alternative modes of dispute resolution.

### Appeals

The arbitral award and any decision rendered in accordance with the foregoing Section shall be appealable by way of a petition for review to the Court of Appeals. The petition shall raise pure questions of law and shall be governed by the Rules of Court.

WITNESS

ALAN G. ARQUILLO, JR.  
CONTRACTOR

JOSE M. OCAMPO JR.  
VP-FA

BERT J. TUGA  
PRESIDENT



## ANNEX B: TERMINATION OF CONTRACTS

### GROUND FORS FOR TERMINATION OF CONTRACTS

#### A. Termination for Default

The Procuring Entity shall terminate a contract for default when any of the following conditions attend its implementation:

- a) Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in accordance with Presidential Decree 1870;
- b) Due to the Contractor's fault and after the contract time has expired, it has incurred a negative slippage of ten percent (10%) or more in the completion of the work; or
- c) The Contractor:
  - i. abandons the contract works, refuses or fails to comply with a valid instruction of the Procuring Entity or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;
  - ii. does not actually have on the project site the minimum essential equipment listed on the Bid necessary to prosecute the Works in accordance with the approved work plan and equipment deployment schedule as required for the project;
  - iii. does not execute the Works in accordance with the contract or persistently or flagrantly neglects to carry out its obligations under the contract;
  - iv. neglects or refuses to remove materials or to perform a new work that has been rejected as defective or unsuitable; or
  - v. sub-lets any part of the contract works without approval by the Procuring Entity.

#### B. Termination for Convenience

The Procuring Entity may terminate the Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.

#### C. Termination for Insolvency

The Procuring Entity shall terminate the contract if the Supplier/Contractor/Consultant is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier/Contractor/Consultant, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier/Contractor/Consultant.





#### D. Termination for Unlawful Acts

The Procuring Entity may terminate the contract in case it is determined prima facie that the Supplier/Contractor/Consultant has engaged, before or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:

- a) Corrupt, fraudulent, collusive and coercive practices;
- b) Drawing up or using forged documents;
- c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
- d) Any other act analogous to the foregoing.

#### E. Termination by Contractor/Consultant

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

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

WITNESS

ALAN G. ARQUILLO, JR.  
CONTRACTOR

JOSE M. OCAMPO JR.  
VP-FA

BERT J. TUGA  
PRESIDENT



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

September 8, 2023

**Mr. RODOLFO GALINATO B. ELEAZAR**  
**American Technologies, Inc.**  
ATI Bldg., #5 ideal cor. McCollough  
St., Brgy. Addition Hills, Mandaluyong City  
8884-0000 loc. 1066 / 0920-4167288  
[releazar@ati.com.ph](mailto:releazar@ati.com.ph)

Dear Mr. Eleazar,

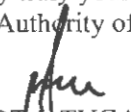
We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Cloud-based Antivirus Software (700 Licenses) of the University** is hereby awarded to **AMERICAN TECHNOLOGIES INC.** pursuant of BAC Resolution No. **GD 2023-08-097-C** dated **September 8, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **AMERICAN TECHNOLOGIES, INC.** in the total amount of **One Million Two Hundred Fifty-One Thousand and Nine Hundred Twenty-Seven Pesos and 00/100 only (Php 1,251,927.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**₱ 62,596.35**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 375,578.10**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conform:

  
**RODOLFO GALINATO B. ELEAZAR**  
Name of Authorized Representative

**SEPT. 11, 2023**

Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD-2023-08-097-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply and Delivery of Cloud-based Antivirus Software (700 Licenses) of the University** on August 10-30, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **One Million Three Hundred Thousand Pesos and 00/100 only (₱ 1,300,00.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **17 August 2023 (Thursday)** at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall, wherein four (4) interested bidders attended the Conference, namely:

1. American Technologies, Inc. represented by Mr. RG Eleazar with email address of [releazar@ati.com.ph](mailto:releazar@ati.com.ph);
2. Pronet Systems Integrated Network Solution, Inc. represented by Mr. Jodel Roco with email address of [m.goyal@pronet.com.ph](mailto:m.goyal@pronet.com.ph);
3. PLDT Enterprise represented by Ms. Shella Taduyo with email address of [sctaduyo@pldt.com.ph](mailto:sctaduyo@pldt.com.ph);
4. Itraverse Solutions Inc. represented by Ms. Mae Mangabat with email address of [sales@itraverse.asia](mailto:sales@itraverse.asia)

**WHEREAS**, the Technology-Related Bids and Awards Committee (TRBAC) has scheduled and conducted the **Opening of Bids** on **30 August 2023 (Wednesday)** at 10:00 AM held at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **American Technologies, Inc.** represented by Mr. RG Eleazar with email address of [releazar@ati.com.ph](mailto:releazar@ati.com.ph).

**WHEREAS**, the summary of the Opening of Bids are as follows:

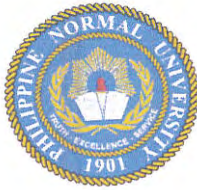
LOT	Bidder/s	Bid Amount	Remarks
1 Lot – Supply and Delivery of Cloud-based Antivirus Software (700 Licenses) of the University (ABC: Php 1,300,000.00)	American Technologies, Inc.	1,251,927.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **American Technologies, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **American Technologies, Inc.** Financial Bid amounting to **One Million Two Hundred Fifty-One Thousand and Nine Hundred Twenty-Seven Pesos and 00/100 only (Php 1,251,927.00)** with an equivalent of 3.70% (**₱ 48,073.00**) variance from the ABC was then Ranked No. 1 (lone bidder);

**WHEREAS**, on **08 September 2023 (Friday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **American Technologies Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;





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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **American Technologies Inc.**, its bid of **One Million Two Hundred Fifty-One Thousand and Nine Hundred Twenty-Seven Pesos and 00/100 only (Php 1,251,927.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- That **AMERICAN TECHNOLOGIES INC.** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **One Million Two Hundred Fifty-One Thousand and Nine Hundred Twenty-Seven Pesos and 00/100 only (Php 1,251,927.00)**;
- That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- That, a **Notice of Award (NOA)** be issued to **AMERICAN TECHNOLOGIES INC.**, upon adoption and approval of this BAC Resolution.
- To recommend the foregoing for the approval of the President of the Philippine Normal University


**RESOLVED**, during the Regular Meeting held on **September 8, 2023**, virtually via Zoom application.

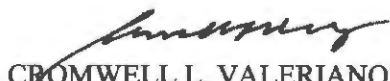
**BIDS AND AWARDS COMMITTEE**  
Resolution No. GD-2023-08-097-C


  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair


  
**MARIE PAZ E. MORALES**  
Member

  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member / End-user

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by  
  
**BERT J. TUGA**  
President



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## NOTICE TO PROCEED

September 15, 2023

**Mr. RODOLFO GALINATO B. ELEAZAR**  
**American Technologies, Inc.**  
ATI Bldg., #5 ideal cor. McCollough  
St., Brgy. Addition Hills, Mandaluyong City  
8884-0000 loc. 1066 / 0920-4167288  
[releazar@ati.com.ph](mailto:releazar@ati.com.ph)


Dear Mr. Eleazar,

The attached Contract having been approved, notice is hereby given to **AMERICAN TECHNOLOGIES INC.** that work may commence for the project: **Supply and Delivery of Cloud-based Antivirus Software (700 Licenses) of the University** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
BERT J. TUGA  
University President

I acknowledge receipt of this Notice on (date of receipt) SEPT. 18, 2023

Name of the Representative of the Bidder: RODOLFO GALINATO B. ELEAZAR

Authorized Signature: 



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMERICAN TECHNOLOGIES, INC.	P.O. No.	23-09-0351
Address:	ATI Bldg., #5 Ideal cor. McCollough St., Brgy. Addition Hills, Mandaluyong City	Date:	September 15, 2023
TIN :	000-329-993-000	Mode of Procurement:	Public Bidding

Gentlemen:

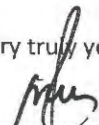

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Cloud-Based Antivirus Software (700 Licenses) of the University</u></b>			
	lot	<b>Sophos Central Intercept X Advanced</b> Specifications: <b>Supported Operating Systems</b> Microsoft Windows 8.1, 10 and 11 64-bit macOS 11, 12, 13 Intel-based Macs (64-bit) macOS 11, 12, 13 (Native) Apple Silicon M Series (ARM)  <b>Basic Features</b> Web Security Download Reputation Web Control / Category-based URL Blocking Peripheral Control Application Control Deep Learning or any Advance Malware Detection <ul style="list-style-type: none"><li>• Detects both known and unknown malware without relying on signatures</li></ul> Anti-Malware File Scanning Live Protection <ul style="list-style-type: none"><li>• To check the latest threat information from the cloud-based server</li></ul> <i>Page 1 of 3</i>	1	₱1,251,927.00	₱1,251,927.00
References: BAC Sol# GD 2023-08-097 PR# 23-06-1309 Ref# 10028239					

(Total Amount in Words) ₱1,251,927.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	 BERT J. TUGA President
 Rodolfo Galinato B. Eleazar Signature over Printed Name of Supplier SEPT. 18, 2023 Date	

Funds Available:	ORs/BURS No.: Amount:
ARGEALINN PALABRICA Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMERICAN TECHNOLOGIES, INC.	P.O. No.	23-09-0351
Address:	ATI Bldg., #5 Ideal cor. McCollough St., Brgy. Addition Hills, Mandaluyong City	Date:	September 15, 2023
TIN :	000-329-993-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Cloud-Based Antivirus Software (700 Licenses) of the University</u></b>	<b>Balance Forwarded</b>		₱1,251,927.00
		Pre-execution Behavior Analysis (HIPS)			
		Potentially Unwanted Application (PUA) Blocking <ul style="list-style-type: none"><li>•Control which apps and devices can run in your environment, block malicious websites and potentially unwanted apps (PUAs) before they reach the user or device.</li></ul>			
		Intrusion Prevention System			
		Data Loss Prevention			
		Runtime Behavior Analysis (HIPS)			
		Antimalware Scan Interface (AMSI)			
		Malicious Traffic Detection (MTD)			
		Exploit Prevention <ul style="list-style-type: none"><li>•Deny attackers by blocking the exploits and techniques used to distribute malware, steal credentials, and escape detection</li></ul>			
		Active Adversary Mitigations <ul style="list-style-type: none"><li>• Prevents persistence on machines, credential theft protection, and malicious traffic detection</li></ul>			
		Ransomware File Protection <ul style="list-style-type: none"><li>• Automatic file recovery, and behavioral analysis to stop ransomware and boot record attacks</li></ul>			
		Disk and Boot Record Protection			
		Man-in-the-Browser Protection			
		Enhanced Application Lockdown			
		Page 2 of 3		References: BAC Sol# GD 2023-08-097 PR# 23-06-1309 Ref# 10028239	

(Total Amount in Words)	₱1,251,927.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier

RODOLFO GAYNAN B. ELEAZAR

SEP. 18, 2023

Date

Very truly yours,

BERT J. TUGA

President

Funds Available:	ARGEA LINN P. PALABRICA Accountant III	ORS/BURS No.: Amount:
------------------	-------------------------------------------	--------------------------



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	AMERICAN TECHNOLOGIES, INC.	P.O. No.	23-09-0351
Address:	ATI Bldg., #5 Ideal cor. McCollough St., Brgy. Addition Hills, Mandaluyong City	Date:	September 15, 2023
TIN :	000-329-993-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Cloud-Based Antivirus Software (700 Licenses) of the University</u></b>  Threat Cases (Root Cause Analysis) Automated Malware Removal  <b>Additional Requirements</b> Can be installed up to 700 endpoints (laptop and desktop units of Microsoft Windows and MacOS) and can be managed via cloud-based admin dashboard  Unlimited Local Support – Phone/email and onsite support within business hours (8x5). Provide certification during opening  Quarterly Preventive Maintenance  Entitled for software upgrade and maintenance within the subscription period  Bidder must be the Authorized Distributor/Reseller of the product  Bidder must have at least two (2) certified technical support engineers of the offered product  Bidder must submit the brochure for one brand with technical specifications	Balance Forwarded		₱1,251,927.00
Page 3 of 3				References: BAC Sol# GD 2023-08-097 PR# 23-06-1309 Ref# 10028239	

(Total Amount in Words)	One Million Two Hundred Fifty One Thousand Nine Hundred Twenty Seven Thousand Pesos and 00/100	₱1,251,927.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

*[Signature]*  
**RODOLFO GALIANO B. ELEAZAR**  
Signature over Printed Name of Supplier  
SEPT. 18, 2023  
Date

Very truly yours,

*[Signature]*  
**BERT J. TUGA**  
President

Funds Available:	ARGEA LINN P. PALABRICA Accountant III	ORS/BURS No.: Amount:
------------------	-------------------------------------------	--------------------------



**PHILIPPINE NORMAL UNIVERSITY**  
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Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

## NOTICE OF AWARD

September 26, 2023

**Ms. JOSEPHINE B. BELARO**  
**Gameville Corporation**  
Blk. 11 Lot 8 Maginoo St., Pag-ibig Homes,  
Brgy., San Andres, Cainta Rizal

Dear Ms. Belaro:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Uniform Package for the 2023 SCUAA National Games – NCR Delegation** is hereby awarded to **GAMEVILLE CORPORATION** pursuant of BAC Resolution No. **GD 2023-08-102-C** dated **September 26, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **GAMEVILLE CORPORATION** in the total amount of **Two Million Thirty-Eight Thousand Nine Hundred Fifty Pesos and 00/100 only (₱ 2,038,950.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 101,947.50); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 611,685.00); or
- c. Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

**BERT J. TUGA**  
President

Conforme:

**JOSEPHINE BELARO**

Name of Authorized Representative

**9/26/2023**

Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD-2023-08-102-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply and Delivery of Uniform Package for the 2023 SCUAA National Games – NCR Delegation** on September 6-25, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Two Million Forty Thousand Four Hundred Pesos (Php 2,040,400.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **13 September 2023 (Wednesday)** at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall and via Zoom Application, wherein one (1) interested supplier attended the Conference, namely:

1. Gameville Corporation represented by Ms. Lanilei Rosa Ng and Ms. Josephine Belaro ([gamevillecorp@yahoo.com](mailto:gamevillecorp@yahoo.com));

**WHEREAS**, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids on 25 September 2023 (Monday)** at 10:00 AM held at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) supplier bought the Official Bid Documents, and submitted Bid, namely **Gameville Corporation**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
1 Lot – Supply and Delivery of Uniform Package for the 2023 SCUAA National Games – NCR Delegation (ABC: Php 2,040,400.00)	Gameville Corporation	2,038,950.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Gameville Corporation** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Gameville Corporation** Financial Bid amounting to **Two Million Thirty-Eight Thousand Nine Hundred Fifty Pesos and 00/100 only (Php 2,038,950.00)** with an equivalent of 0.07% (**₱ 1,450.00**) variance from the ABC was then Ranked No. 1 (lone bidder);

**WHEREAS**, on **26 September 2023 (Tuesday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Gameville Corporation**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Gameville Corporation**, its bid of **Two Million Thirty-Eight Thousand Nine Hundred Fifty Pesos and 00/100 only (Php 2,038,950.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

- a. That **GAMEVILLE CORPORATION** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **Two Million Thirty-Eight Thousand Nine Hundred Fifty Pesos and 00/100 only (Php 2,038,950.00)**;
- b. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- c. That, a **Notice of Award (NOA)** be issued to **GAMEVILLE CORPORATION**, upon adoption and approval of this BAC Resolution.
- d. To recommend the foregoing for the approval of the President of the Philippine Normal University


**RESOLVED**, during the Regular Meeting held on **September 26, 2023**, virtually via Zoom application.

**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-08-102-C**

  
**LORDINIO A. VERGARA**  
Chair

  
**FLORENCE A. ALLEJOS**  
Member


  
**JENNY C. MALITAO**  
Vice-Chair


  
**HELENA A. ADVINCULA**  
Member

  
**JENITH M. DE GUZMAN**  
Member

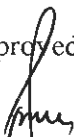
  
**LEONORA P. NARAG**  
Member

  
**JAMES M. BAILON**  
Member

  
**ROMEO R. RIOFLORIDO**  
End-User

  
**RICHARD A. URGELLES**  
Technical Representative

Approved by

  
**BERT A. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

## NOTICE TO PROCEED

September 27, 2023

**Ms. JOSEPHINE B. BELARO**  
**Gameville Corporation**  
Blk. 11 Lot 8 Maginoo St., Pag-ibig Homes,  
Brgy., San Andres, Cainta Rizal


Dear Ms. Belaro:

The attached Contract having been approved, notice is hereby given to **GAMEVILLE CORPORATION** that work may commence for the project: **Supply and Delivery of Uniform Package for the 2023 SCUAA National Games – NCR Delegation** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

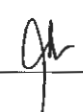
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 9/27/2023

Name of the Representative of the Bidder: JOSEPHINE BELARO

Authorized Signature: 





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	GAMEVILLE CORPORATION	P.O. No.	23-09-0370
Address:	Blk. 11 Lot 8 Maginoo St., Pag-ibig Homes, Brgy., San Andres, Cainta Rizal	Date:	September 27, 2023
TIN :	245-168-887-000	Mode of Procurement:	Competitive Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

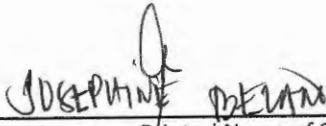
Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 10 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
	lot	<p><u>Supply and Delivery of Uniform Package for the 2023 SCUAA National Games - NCR Delegation</u></p> <p><b>UNIFORM PACKAGE</b></p> <p>349 sets - Parade Jacket, Shirt and Cap 232 sets - Playing Uniform 349 pairs - Parade Shoes</p> <p><b>Technical Specifications (Uniforms):</b></p> <p><b>Jacket</b> - full sublimation (double face) <b>Shirt</b> - full sublimation (smooth dri-fit) <b>Cap</b> - cotton twill, embroidery on front <b>Playing Uniform</b> - full sublimation (Smooth dri-fit)</p> <p><b>Mr. and Ms. SCUAA</b> Casual Wear Sports Attire</p> <p><b>Quantity by Sports Events (Playing Uniform)</b></p> <p>33 sets - Athletics (M &amp; W) 10 sets - Badminton (M &amp; W) 15 sets - Baseball (M) 30 sets - Basketball (M &amp; W)</p> <p>Page 1 of 3</p>	1	₱2,038,950.00	₱2,038,950.00

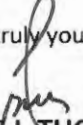
(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
9/27/2023  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: ₱ 2,038,950	ORS/BURS No.: 02-25206441- 2023-09-0987 Amount: 2,038,950.00
<b>ARGEA LINN P. PALABRICA</b> Accountant II	



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	GAMEVILLE CORPORATION	P.O. No.	23-09-0370
Address:	Blk. 11 Lot 8 Maginoo St., Pag-ibig Homes, Brgy., San Andres, Cainta Rizal	Date:	September 27, 2023
TIN :	245-168-887-000	Mode of Procurement:	Competitive Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 10 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply and Delivery of Uniform Package for the</u> <u>2023 SCUAA National Games - NCR Delegation</u>			
		<b>UNIFORM PACKAGE (con't)</b> 10 sets - Chess (M & W) 18 sets - Football (M) 12 sets - Futsal (W) 10 sets - Lawn Tennis (M & W) 17 sets - Sepak Takraw (M & W) 15 sets - Softball (W) 20 sets - Swimming (M & W) 10 sets - Table Tennis (M & W) 30 sets - Volleyball (M & W) 2 sets - Mr. and Ms. SCUAA (M & W)  <b>Technical Specifications (Parade Shoes):</b> <b>349 pairs - Parade Rubber Shoes (Nike Original)</b> Color Combination: Any Bi-color (e.g., Purple/Red, Grey/Pure, Platinum/White)  Sizes: US 35 - 48  Materials: made from at least 20% recycled content by weight it has a supportive fit and stable ride			
			Balance Forwarded		2,038,950.00

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

JOSEPHINE BELAND  
Signature over Printed Name of Supplier  
9/27/2023  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: 2,038,950	ARGEA LINN B. PALABRICA Accountant III	ORS/BURS No.: Amount:
----------------------------	-------------------------------------------	--------------------------





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: **GAMEVILLE CORPORATION**

P.O. No. 23-09-0370

Address: Blk. 11 Lot 8 Maginoo St., Pag-ibig Homes,  
Brgy., San Andres, Cainta Rizal

Date: September 27, 2023

TIN : 245-168-887-000

Mode of Procurement: Competitive Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

Delivery Term: **within 10 calendar days**

Date of Delivery:

Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply and Delivery of Uniform Package for the 2023 SCUAA National Games - NCR Delegation</u></b></p> <p><b>Technical Specifications (Parade Shoess) con't:</b></p> <p>Raw Materials (at least any): Organic cotton, leather, rubber, recycled polyester, PVC, PVA foam, mesh fabric and lightweight plastic, synthetic latex/hypoallergenic</p> <p>Comfortability: Feel the stability with the midfoot fitband, super-soft foam through the midsole helps cushion your foot with every step.</p> <p><i>References:</i>  BAC Sol# GD 2023-08-102 Ref# 10104277  PR# 23-09-1835</p>	Balance Forwarded		2,038,950.00

Page 3 of 3

(Total Amount in Words)

TWO MILLION THIRTY-EIGHT THOUSAND NINE HUNDRED FIFTY PESOS AND 00/100 ONLY

**₹2.038.950.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Very truly yours,

BERT J. TUGA

President

Conforme:

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available: 2,078,950

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.:

Amount: \_\_\_\_\_





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

September 19, 2023

**Ms. ANALYN Q. CAPOTE**  
**Xitrix Computer Corporation**  
23 Detroit St. Cubao Quezon City  
8721-9999 / 09475987022  
[analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net)

Dear Ms. Capote,

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023 (LOT 1)** is hereby awarded to **XITRIX COMPUTER CORPORATION** pursuant of BAC Resolution No. GD 2023-07-088-C dated September 19, 2023.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **XITRIX COMPUTER CORPORATION** in the total amount of **Two Million Two Hundred Sixty-Five Thousand Pesos and 00/100 only (Php 2,265,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:


- Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**₱ 113,250.00**); or
- Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 679,500.00**); or
- Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
ANALYN Q. CAPOTE  
Name of Authorized Representative

SEPT. 29, 2023  
Date

*(All documents without PNU QS Stamp or Control Identifier are uncontrolled)*



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD-2023-07-088-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023** on August 10-30, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Five Million Two Hundred Sixteen Thousand Pesos and 00/100 only (Php 5,216,000.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **17 August 2023 (Thursday)** at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall, wherein four (4) interested bidders attended the Conference, namely:

1. Quartz Business Products Corporation represented by Ms. Jade Refuerzo with email address of [sales.government@quartz.com.ph](mailto:sales.government@quartz.com.ph);
2. Power Mac Center, Inc. represented by Ms. Trixie Bonifacio, Mr. Miguel Barrios, and Mr. Kristoffer Queinquem with email address of [trixie.bonifacio@powermaccenter.com](mailto:trixie.bonifacio@powermaccenter.com);
3. Pronet Systems Integrated Network Solution, Inc. represented by Mr. Jodel Roco with email address of [jodel.pronet@gmail.com](mailto:jodel.pronet@gmail.com);
4. Xitrix Computer Corporation represented by Mr. Mark Santos with email address of [sales@xitrix.net](mailto:sales@xitrix.net).

**WHEREAS**, the Technology-Related Bids and Awards Committee (TRBAC) has scheduled and conducted the **Opening of Bids** on **30 August 2023 (Wednesday)** at 4:00 PM held at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) supplier bought the Official Bid Documents, and submitted Bid, namely **Xitrix Computer Corporation**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 – Desktop Computer for Various Offices (ABC: ₱ 2,265,000.00)	Xitrix Computer Corporation	2,265,000.00	Eligible
Lot 2 – Lightweight Mid-Range Laptop Computer for Various Offices (ABC: ₱ 465,000.00)	No Bidder/s	Not Applicable	Failed Bid
Lot 3 – Printers for Various Offices (ABC: ₱ 595,000.00)	No Bidder/s	Not Applicable	Failed Bid
Lot 4 – LCD Projector for Various Offices (ABC: ₱ 940,000.00)	No Bidder/s	Not Applicable	Failed Bid
Lot 5 – High-Performance Computing Equipment (HPC) Equipment (ABC: ₱ 951,000.00)	No Bidder/s	Not Applicable	Failed Bid



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The National Center for Teacher Education  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Xitrix Computer Corporation** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Xitrix Computer Corporation** Financial Bid amounting to **Two Million Two Hundred Sixty-Five Thousand Pesos and 00/100 only (Php 2,265,000.00)** with an equivalent of 0.00% (**₱ 0.00**) variance from the ABC was then declared as the Single Calculated Bid for Lot 1 - Desktop Computer for Various Offices;

**WHEREAS**, on **18 September 2023 (Monday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Xitrix Computer Corporation**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Xitrix Computer Corporation**, its bid of **Two Million Two Hundred Sixty-Five Thousand Pesos and 00/100 only (Php 2,265,000.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Technology-Related Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **XITRIX COMPUTER CORPORATION** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **Two Million Two Hundred Sixty-Five Thousand Pesos and 00/100 only (Php 2,265,000.00)**;
- b. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- c. That, a **Notice of Award (NOA)** be issued to **XITRIX COMPUTER CORPORATION**, upon adoption and approval of this BAC Resolution.
- d. To recommend the foregoing for the approval of the President of the Philippine Normal University

**RESOLVED**, during the Regular Meeting held on **September 19, 2023**, virtually via Zoom application.






**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
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Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph


**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-07-088-C**

  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

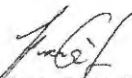
  
**JOHN P. NATIVIDAD**  
Vice-Chair / End-user

  
**MARIE PAZ E. MORALES**  
Member

  
**GROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT I. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. 317-1768 loc. 738

## NOTICE TO PROCEED

September 29, 2023

**Ms. ANALYN Q. CAPOTE**  
**Xitrix Computer Corporation**  
23 Detroit St. Cubao Quezon City  
8721-9999 / 09475987022  
[analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net)


Dear Ms. Capote,

The attached Purchase Order having been approved, notice is hereby given to **XITRIX COMPUTER CORPORATION** that work may commence for the project: **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023**, effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

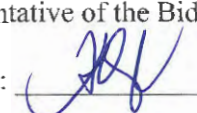
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) Oct. 19, 2023

Name of the Representative of the Bidder: ANALYN Q. CAPOTE

Authorized Signature: 



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0377</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	<b>Balance Forwarded</b>		<b>₱1,195,200.00</b>
		Provide certification as RoHS compliant environmental friendly or its equivalent The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineers of the offered brand <b>Technical Support:</b> The Bidder or Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support request of the end-users. The system portal must have the following <ul style="list-style-type: none"><li>•Must provide ticket for each technical support request or issues and must provide status report until resolution.</li><li>•Must support notification for technical support via telephone, email and web</li><li>•Four (4) hours of response time upon notification of service repair</li></ul> <b>Additional Requirements:</b> With a compatible Automatic Voltage Regulator (AVR) With Wired Keyboard and Mouse			
		References: BAC Sol# GD 2023-07-088 PR# 23-02-0446/23-01-0210/23-04-0719/23-05-1066/ 23-05-0997/23-03-0657/23-01-0222/23-02-0440/ 23-02-0421/23-04-0718/23-04-0740/23-04-0766/ 23-05-1093/23-01-0216 Ref# 10028314			
		Page 4 of 4			

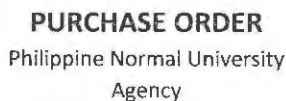
(Total Amount in Words)	<b>One Million One Hundred Ninety-Five Thousand Two Hundred Pesos and 00/100 Only</b>	<b>₱1,195,200.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	Very truly yours,  <b>BERT TUGA</b> President
 <b>ANALYN S. CAPOTE</b> Signature over Printed Name of Supplier <b>Oct 19, 2023</b> Date	

Funds Available: <b>1,195,200</b>  <b>ARGEA LINN P. RALABRICA</b> Accountant III	ORS/BURS No.: Amount:
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Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available:

ARGEA LINI P. PALABRICA  
Accountant III

ORS/BURS No.:

Amount:



## PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: **XITRIX COMPUTER CORPORATION**

Address: 23 Detroit St. Cubao Quezon City

TIN : 220-418-197-000

P.O. No. 23-09-0377

Date: September 29, 2023

Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

Date of Delivery:

Delivery Term: **within 30 calendar days**

Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p align="center"><b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b></p> <p><b>Storage:</b> At least 256 GB M.2 2280 PCI-E SSD + 1TB HDD 2.5-inch 5400 RPM or higher</p> <p><b>Connectivity:</b> Gigabit Ethernet 802.11ax/ac/a/b/g/n, Wi-Fi 6E and Bluetooth 5</p> <p><b>Camera:</b> Integrated 5.0 MP Full HD webcam with 2 stereo microphones</p> <p><b>Audio:</b> Built-in stereo speakers</p> <p><b>Display:</b> 23.8-inch micro-edge or borderless display or its equivalent Display max resolution: (1920x1080) Backlight: LED/IPS Brightness (cd/m2): 250nits Aspect ratio: 16:9 with screen tilting</p> <p><b>I/O Ports:</b> LAN port USB 2.0 Port</p>	Balance Forwarded		₱1,195,200.00
				<p><i>References:</i> BAC Sol# GD 2023-07-088 PR# 23-02-0446/23-01-0210/23-04-0719/23-05-1066/ 23-05-0997/23-03-0657/23-01-0222/23-02-0440/ 23-02-0421/23-04-0718/23-04-0740/23-04-0766/ 23-05-1093/23-01-0216 Ref# 10028314</p>	

(Total Amount in Words)

**₱1,195,200.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available:

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.: \_\_\_\_\_

Amount: \_\_\_\_\_



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0377</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b></p> <p>USB 3.2 Ports (Gen 2, Type A) USB 3.2 Ports: (Gen 2, Type C) or Thunderbolt Audio jack HDMI port <b>Chassis / Case:</b> All in One Desktop PC form factor with at least 65 watts up to 350 watts High Efficiency Power Supply unit <b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals <b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer</p>	Balance Forwarded		₱1,195,200.00
				References: BAC Sol# GD 2023-07-088 PR# 23-02-0446/23-01-0210/23-04-0719/23-05-1066/ 23-05-0997/23-03-0657/23-01-0222/23-02-0440/ 23-02-0421/23-04-0718/23-04-0740/23-04-0766/ 23-05-1093/23-01-0216 Ref# 10028314	

Page 3 of 4

(Total Amount in Words)	<b>₱1,195,200.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT A. TUGA**  
President

**ANALYN Q. CAROTE**  
Signature over Printed Name of Supplier

**Oct 19, 2023**  
Date

Funds Available: <b>1195.20</b>	ORS/BURS No.: Amount:
<b>ARGEA LINNE PALABRICA</b> Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	XITRIX COMPUTER CORPORATION	P.O. No.	23-09-0378
Address:	23 Detroit St. Cubao Quezon City	Date:	September 29, 2023
TIN :	220-418-197-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>			
	units	<b>All-in-One Desktop Computer - Xitrix G27 AIO PC</b> <b>Processor:</b> Cores: 12 or higher Threads: 16 or higher Max Turbo Frequency: 4.70 GHz or higher Cache: 18MB or higher or equivalent latest processor <b>Memory:</b> At least 16GB DDR4 3200MHz or at least 16GB DDR4 3200MHz with one or two slots for future upgrade <b>Graphics / Video Processor:</b> Discrete graphics card Graphics Memory: 2GB GDDR6 or higher <b>Storage:</b> At least 256 GB M.2 2280 PCI-E SSD + 1TB HDD 2.5-inch 5400 RPM <b>Connectivity:</b> Gigabit Ethernet \802.11ax/ac/a/b/g/n, Wi-Fi 6E and Bluetooth 5 <b>Camera:</b> Integrated 5.0 MP Full HD webcam with privacy shutter with 2 stereo microphones <b>Audio:</b> Built-in stereo speakers	2	₱65,300.00	₱130,600.00
References: BAC Sol# GD 2023-07-088 PR# 23-03-0625 Ref# 10028314					

(Total Amount in Words) ₱130,600.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier

Oct 19, 2023

Date

Very truly yours,

BERT L. TUGA

President

Funds Available: ₱0.00	ARS/BURS No.: _____
ARGEA LINN P. PALABRICA Accountant III	Amount: _____



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0378</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>	<b>Balance Forwarded</b>		<b>₱130,600.00</b>
		<b>Display:</b> At least 27-inch micro-edge or borderless display or its equivalent Display max resolution: (1920x1080) Backlight: LED/IPS Brightness (cd/m2): 250nits Aspect ratio: 16:9 With screen tilting <b>I/O Ports:</b> LAN port USB 3.1 Ports (Gen 1, Type A) USB 3.2 Ports: (Gen 2, Type A) Thunderbolt or USB 3.2 Gen 1 Type C port Audio jack HDMI port <b>Chassis / Case:</b> All in One Desktop PC form factor with at least 120 watts up to 300 watts High-Efficiency Power Supply unit		<b>References:</b>  BAC Sol# GD 2023-07-088 PR# 23-03-0625 Ref# 10028314	

Page 2 of 4

(Total Amount in Words) ₱130,600.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

*[Signature]*  
**ANABELA S. CAPOTE**  
Signature over Printed Name of Supplier  
Oct. 19, 2023  
Date

Very truly yours,

*[Signature]*  
**BERT J. TUGA**  
President

Funds Available: <b>₱10,600</b>	ORS/BURS No.: Amount:
<b>ARGEA LINN P. PALABRICA</b> Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0378</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	<b>Balance Forwarded</b>		<b>₱130,600.00</b>
		<b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals			
		<b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance			
		<b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. Provide certification as RoHS compliant environmental friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineer of the offered brand			
		<b>Technical Support:</b> The Bidder or Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support requests of the end-users. The system portal must have the following: • Must provide ticket for each technical support request or issue and must provide status report until resolution			
				<b>References:</b>  BAC Sol# GD 2023-07-088 PR# 23-03-0625 Ref# 10028314	
		Page 3 of 4			

(Total Amount in Words)	<b>₱130,600.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

**ANALYN B. LAPOTE**  
Signature over Printed Name of Supplier

**Oct-19, 2023**  
Date

Funds Available: <b>MO, 400</b>	ORS/BURS No.: Amount:
<b>ARGEALINN P. PALABRICA</b> Accountant III	





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0378</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>  •Must support notification for technical support via telephone, email and web. •Four (4) hours of response time upon notification of service repair <b>Additional Requirements:</b> With a compatible Automatic Voltage Regulator (AVR) With Wired Keyboard and Mouse	<b>Balance Forwarded</b>		<b>₱130,600.00</b>
<div>References: BAC Sol# GD 2023-07-088 PR# 23-03-0625 Ref# 10028314</div>					
Page 4 of 4					

(Total Amount in Words) <b>One Hundred Thirty Thousand Six Hundred Pesos and 00/100 Only</b>	<b>₱130,600.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**ANALYN B. APOTE**

Signature over Printed Name of Supplier

Oct. 19, 2023

Date

Very truly yours,

**BERT L. TUGA**

President

Funds Available: <b>130,600</b>  <b>ARGEA LINN P. PALABRICA</b> Accountant III	ORS/BURS No.: _____ Amount: _____
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>			
	units	<b>All-in-One Desktop Computer - Xitrix G27 AIO PC</b> <b>Processor:</b> Cores: 12 or higher Threads: 16 or higher Max Turbo Frequency: 4.70 GHz or higher Cache: 18MB or higher or equivalent latest processor <b>Memory:</b> At least 16GB DDR4 3200MHz or at least 16GB DDR4 3200MHz with one or two slots for future upgrade <b>Graphics / Video Processor:</b> Discrete graphics card Graphics Memory: 2GB GDDR6 or higher <b>Storage:</b> At least 256 GB M.2 2280 PCI-E SSD + 1TB HDD 2.5-inch 5400 RPM <b>Connectivity:</b> Gigabit Ethernet \802.11ax/ac/a/b/g/n, Wi-Fi 6E and Bluetooth 5 <b>Camera:</b> Integrated 5.0 MP Full HD webcam with privacy shutter with 2 stereo microphones <b>Audio:</b> Built-in stereo speakers	4	₱65,300.00	₱261,200.00
References: BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314					
Page 1 of 14					

(Total Amount in Words) ₱261,200.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**ANALDO G. CASOPE**  
Signature over Printed Name of Supplier  
Oct. 19, 2023  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: 99,201  
  
**ARGEA LINN P. PALABRICA**  
Accountant II

ORS/BURS No.:  
Amount:







**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>  <b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals  <b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance  <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. Provide certification as RoHS compliant environmental friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineer of the offered brand  <b>Technical Support:</b> The Bidder or Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support requests of the end-users. The system portal must have the following: • Must provide ticket for each technical support request or issue and must provide status report until resolution	Balance Forwarded		<b>₱261,200.00</b>
Page 3 of 14					

(Total Amount in Words)	<b>₱261,200.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
Oct. 19, 2023  
Date

Very truly yours,

  
**BERT A. TUGA**  
President

Funds Available: 999.20  
  
**ARGEA LINN F. PALABRICA**  
Accountant III

ORS/BURS No.: \_\_\_\_\_  
Amount: \_\_\_\_\_



## PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: XITRIX COMPUTER CORPORATION

Address: 23 Detroit St. Cubao Quezon City

TIN : 220-418-197-000

P.O. No. 23-09-0379

Date: September 29, 2023

Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

Date of Delivery:

Delivery Term: **within 30 calendar days**

**Payment Term:**

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p align="center"><b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b></p> <p>•Must support notification for technical support via telephone, email and web.</p> <p>•Four (4) hours of response time upon notification of service repair</p> <p><b>Additional Requirements:</b>            With a compatible Automatic Voltage Regulator (AVR)            With Wired Keyboard and Mouse</p>	Balance Forwarded		₱261,200.00
	units	<p><b>Mid-range All-in-One Desktop Computer - Xitrix Deskframe A-300 AIO PC</b></p> <p><b>Processor:</b>            Cores: 12 or higher            Threads: 16 or higher            Max Turbo Frequency: 4.40 GHz or higher            Cache: 12MB or higher or equivalent latest processor</p> <p><b>Memory:</b>            At least 16GB DDR4 3200MHz or at least 16GB DDR4 3200MHz with one or two slots for future upgrade</p> <p><b>Graphics / Video Processor:</b>            Integrated graphics</p> <p>Graphics Memory: shared</p>	11	₱49,800.00	₱547,800.00
				<p><i>References:</i>            BAC Sol# GD 2023-07-088            PR# 23-02-0443/23-03-0629/23-04-0939/            23-04-0940/23-02-0446/23-06-1386/            Ref# 10028314</p>	

Page 4 of 14

(Total Amount in Words)
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**₹809,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

BERT L. TUGA  
President

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available:

ARGEA LINN F. PALABRICA  
Accountant III

ORS/BURS No.:

Amount:



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	Balance Forwarded		₱809,000.00
		<b>Storage:</b> At least 256 GB M.2 2280 PCI-E SSD + 1TB HDD 2.5-inch 5400 RPM or higher			
		<b>Connectivity:</b> Gigabit Ethernet 802.11ax/ac/a/b/g/n, Wi-Fi 6E and Bluetooth 5			
		<b>Camera:</b> Integrated 5.0 MP Full HD webcam with 2 stereo microphones			
		<b>Audio:</b> Built-in stereo speakers			
		<b>Display:</b> 23.8 inch micro-edge or borderless display or its equivalent Display max resolution: (1920x1080) Backlight: LED/IPS Brightness (cd/m2): 250nits Aspect ratio: 16:9 with screen tilting			
		<b>I/O Ports:</b> LAN port USB 2.0 Port			
				<b>References:</b> BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314	

Page 5 of 14

(Total Amount in Words)	<b>₱809,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

*[Signature]*  
**ANASTASIA B. CAROTE**  
Signature over Printed Name of Supplier

*[Signature]*  
**SEP - 19, 2023**  
Date

Very truly yours,

*[Signature]*  
**BERNARD J. TUGA**  
President

Funds Available: <i>[Signature]</i> <b>ARGEA LINN P. PALABRICA</b> Accountant III	ORS/BURS No.: Amount:
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

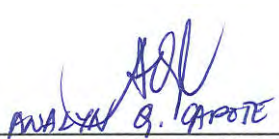
Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

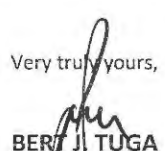
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	<b>Balance Forwarded</b>		<b>₱809,000.00</b>
		USB 3.2 Ports (Gen 2, Type A) USB 3.2 Ports: (Gen 2, Type C) or Thunderbolt Audio jack HDMI port <b>Chassis / Case:</b> All in One Desktop PC form factor with at least 65 watts up to 350 watts High Efficiency Power Supply unit <b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals <b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer			
		Page 6 of 14		References: BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314	

(Total Amount in Words)	<b>₱809,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
09.19.2023  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: <b>₱79,200</b>  ARGEE LINM P. PALABRICA Accountant III	ORS/BURS No.: Amount:
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	<b>Balance Forwarded</b>		<b>₱809,000.00</b>
		Provide certification as RoHS compliant environmental friendly or its equivalent The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineers of the offered brand <b>Technical Support:</b> The Bidder or Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support request of the end-users. The system portal must have the following •Must provide ticket for each technical support request or issues and must provide status report until resolution. •Must support notification for technical support via telephone, email and web •Four (4) hours of response time upon notification of service repair <b>Additional Requirements:</b> With a compatible Automatic Voltage Regulator (AVR) With Wired Keyboard and Mouse			
		References: BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314			
		Page 7 of 14			

(Total Amount in Words)	<b>₱809,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

*[Signature]*  
**ANALYN Q. CAPOTE**  
Signature over Printed Name of Supplier  
**Oct. 19, 2023**  
Date

Very truly yours,  
*[Signature]*  
**BERT J. TUGA**  
President

Funds Available: <b>979,201</b> <b>ARGEA LINN PALABRICA</b> Accountant III	ORS/BURS No.: Amount:
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>			<b>Balance Forwarded</b> <b>₱809,000.00</b>
	units	<b>High-End Desktop Computer- Xitrix GX2-Z790</b> <b>Processor:</b> Cores: 12 or higher Threads: 20 or higher Max Turbo Frequency: 4.90 GHz or higher Cache: 25MB or higher or equivalent latest processor <b>Memory:</b> At least two (2) x 16GB DDR5 4800Mhz or at least two (2) x 16GB DDR5 4800Mhz with one or two slots for future upgrade  <b>Graphics / Video Processor:</b> Discrete graphics card Graphics Memory: at least 6GB GDDR6 <b>Motherboard:</b> Must be compatible with the CPU, graphics card, memory and other peripherals installed  <b>Storage:</b> 1TB NVMe M.2 PCIe 3.0 SSD or higher	<b>1</b>	<b>₱96,000.00</b>	<b>₱96,000.00</b>
References: BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314					
Page 8 of 14					

(Total Amount in Words)	<b>₱905,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**ANALYN B. CAPOTE**  
Signature over Printed Name of Supplier  
**09.19.2023**  
Date

Very truly yours,  
**BERT J. TUGA**  
President

Funds Available: <b>779,200</b> <b>ARGEA LINN PALABRICA</b> Accountant III	ORS/BURS No.: Amount:
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## PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: XITRIX COMPUTER CORPORATION

Address: 23 Detroit St. Cubao Quezon City

TIN : 220-418-197-000

P.O. No. 23-09-0379

Date: September 29, 2023

Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

Date of Delivery:

Delivery Term:

**within 30 calendar days**

Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b></p> <p>1TB HDD 3.5" SATA</p> <p><b>Connectivity:</b></p> <p>Gigabit Ethernet</p> <p>Wi-Fi 6 2x2 AX &amp; Bluetooth 5.1 or above</p> <p><b>Display:</b></p> <p>27 inch, IPS FHD (1920 x 1080), 16:9 144Hz or higher</p> <p><b>I/O Ports:</b></p> <p>LAN port</p> <p>USB 3.2 Ports (Gen 1, Type C), (Gen 1, Type A)</p> <p>USB 3.2 Ports: (Gen 2, Type A)</p> <p>Audio Ports</p> <p>Display Port</p> <p>HDMI port</p> <p><b>Power Supply:</b></p> <p>Must be compatible with the CPU, Motherboard, Graphics Card and ATX Casing</p>	Balance Forwarded		₱905,000.00
				<p>References:</p> <p>BAC Sol# GD 2023-07-088</p> <p>PR# 23-02-0443/23-03-0629/23-04-0939/</p> <p>23-04-0940/23-02-0446/23-06-1386/</p> <p>Ref# 10028314</p>	

Page 9 of 14

(Total Amount in Words)

**₱905,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT TUGA**  
President

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available:

ARGEA LINN & PALABRICA  
Accountant III

ORS/BURS No.:

Amount: \_\_\_\_\_



## PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: XITRIX COMPUTER CORPORATION

Address: 23 Detroit St. Cubao Quezon City

TIN : 220-418-197-000

P.O. No. 23-09-0379

Date: September 29, 2023

Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

Date of Delivery:

**Delivery Term:** within 30 calendar days

Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b></p> <p><b>Chassis / Case:</b> Must be compatible with the CPU, Motherboard, Graphics Card, Power Supply Unit and other peripherals installed</p> <p><b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals</p> <p><b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance</p> <p><b>Certification (required if the offered unit is branded):</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. Provide certification as RoHS compliant environmental friendly The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineer of the offered brand</p>	Balance Forwarded		₱905,000.00
				<p><i>References:</i> BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314</p>	

Page 10 of 14

(Total Amount in Words)

**₱905,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

BERNARD TUGA  
President

ANALYN 8. CAPOTE

Signature over Printed Name of Supplier

Oct. 19, 2023  
Date

Funds Available:

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.:

Amount: \_\_\_\_\_



## PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: XITRIX COMPUTER CORPORATION

P.O. No. 23-09-0379

Address: 23 Detroit St. Cubao Quezon City

Date: September 29, 2023

TIN : 220-418-197-000

Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: **PNU Manila - Supply and Property Unit**

**Delivery Term:** **within 30 calendar days**

Date of Delivery:

Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	Balance Forwarded		₱905,000.00
		<b>Technical Support (required if the offered unit is branded):</b> The Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support request of the end-users. The system portal must have the following:  •Must provide ticket for each technical support request or issues and must provide status report until resolution. •Must support notification for technical support via telephone, email and web •Four (4) hours of response time upon notification of service repair. <b>Additional Requirements:</b> With a compatible Automatic Voltage Regulator (AVR) With Wired Keyboard and Mouse			
	unit	<b>Mini PC for Smart Interactive Board TV- Xitrix Deskframe E-305 Processor:</b> Cores: 4 or higher Threads: 8 or higher iiax Turbo Frequency: 4.20 GHz or higher	1	₱34,200.00	₱34,200.00
				<b>References:</b> BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314	

Page 11 of 14

(Total Amount in Words)	
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**₱939,200.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

Signature over Printed Name of Supplier

Date \_\_\_\_\_

Funds Available:

ORS/BURS No.: \_\_\_\_\_

Amount: \_\_\_\_\_

ARGEA LINN P. PALABRICA  
Accountant III





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: XITRIX COMPUTER CORPORATION	P.O. No. 23-09-0379
Address: 23 Detroit St. Cubao Quezon City	Date: September 29, 2023
TIN : 220-418-197-000	Mode of Procurement: Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PNU Manila - Supply and Property Unit	Delivery Term: within 30 calendar days
Date of Delivery:	Payment Term:


Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>	Balance Forwarded		₱939,200.00
		Cache: 8MB or higher or equivalent latest processor			
		<b>Memory:</b>			
		At least 8GB DDR4 RAM			
		<b>Graphics / Video Processor:</b>			
		Integrated graphics			
		Graphics Memory: shared			
		<b>Storage:</b>			
		At least 512GB M.2 NVMe PCIe 3.0 SSD			
		<b>Connectivity:</b>			
		Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2			
		<b>Display Port:</b>			
		HDMI 2.0b; USB-C (DP1.4); MiniDP 1.4			
		<b>Audio:</b>			
		Audio (back channel + front channel): 7.1 digital (HDMI mDP); L+R mic (F)			
		<b>I/O Ports:</b>			
		(Type-A, Type-C) and USB 3.2 Gen2 (2x Type-A, Type-C); USB 2.0, USB 3.1 Gen2 via internal headers			
			References:		
			BAC Sol# GD 2023-07-088		
			PR# 23-02-0443/23-03-0629/23-04-0939/		
			23-04-0940/23-02-0446/23-06-1386/		
			Ref# 10028314		
		Page 12 of 14			

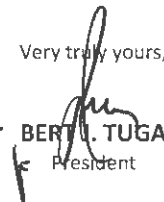
(Total Amount in Words)	₱939,200.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

  
Signature over Printed Name of Supplier  
Date: Oct. 19, 2023

  
BERT L. TUGA  
President

Funds Available: 919,200	ORS/BURS No.: Amount:
ARGEA LINN PALABRICA Accountant III	



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u></b>  <b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals  <b>Form Factor:</b> UCFF (4" x 4")  <b>Warranty:</b> Three (3) years warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance  <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmental friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015 Bidder must have at least 2 certified technical support engineer of the offered brand  <div>Page 13 of 14</div>	Balance Forwarded		<b>₱939,200.00</b>

References:  
BAC Sol# GD 2023-07-088  
PR# 23-02-0443/23-03-0629/23-04-0939/  
23-04-0940/23-02-0446/23-06-1386/  
Ref# 10028314

(Total Amount in Words)	<b>₱939,200.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	Very truly yours,  <b>BERT J. TUGA</b> President
 <b>ARGEA LINNY P. PALABRICA</b> Signature over Printed Name of Supplier <b>Oct. 19, 2023</b> Date	

Funds Available: <b>₱939,200.00</b>  <b>ARGEA LINNY P. PALABRICA</b> Accountant III	ORS/BURS No.: Amount:
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: <b>XITRIX COMPUTER CORPORATION</b>	P.O. No. <b>23-09-0379</b>
Address: <b>23 Detroit St. Cubao Quezon City</b>	Date: <b>September 29, 2023</b>
TIN : <b>220-418-197-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b></p> <p><b>Technical Support:</b> The Brand Manufacturer must have a Customer Support System portal in place to accommodate technical support request of the end-users. The system portal must have the following:</p> <ul style="list-style-type: none"><li>• Must provide ticket for each technical support request or issues and must provide status report until resolution.</li><li>• Must support notification for technical support via telephone, email and web.</li><li>• Four (4) hours of response time upon notification of service repair</li></ul> <p><b>Additional Requirements:</b> With HDMI cable 3 meters, supports bandwidth up to 18Gbps With Wireless Keyboard and Mouse</p>	Balance Forwarded		₱939,200.00
<div>References: BAC Sol# GD 2023-07-088 PR# 23-02-0443/23-03-0629/23-04-0939/ 23-04-0940/23-02-0446/23-06-1386/ Ref# 10028314</div> <div>Page 14 of 14</div>					

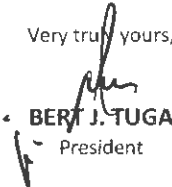
(Total Amount in Words)	Nine Hundred Thirty-Nine Thousand Two Hundred Pesos and 00/100 Only	₱939,200.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
Oct 19, 2023  
Date

Very truly yours,

  
BERT J. TUGA  
President

Funds Available: <b>9M.20</b>  ARGEA LINN P. PALABRICA Accountant III	ORS/BURS No.: Amount:
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**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE OF AWARD**

December 28, 2023

**Ms. PAULINE ALLYZA MARIE G. ABUNDO**

**Power Mac Center, Inc.**

Unit 408 and 436 Cyberzone SM Megamall,

Bldg. B Edsa, Wack Wack, Mandaluyong,

Mandaluyong City

0917-5136958 / 0917-8128921

Dear Ms. Abundo,

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023 (Lots 1 and 4)** is hereby awarded to **POWER MAC CENTER, INC.** pursuant of BAC Resolution No. **GD 2023-11-161-C** dated **December 23, 2023**.

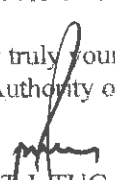
Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **POWER MAC CENTER, INC.** in the total amount of **One Million Three Hundred Eighty-Nine Thousand Nine Hundred Thirty-Four Pesos and 00/100 (₱ 1,389,934.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank; provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (₱ 69,496.70); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 416,980.20); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,

By Authority of the Board of Regents:

  
BERT J. FUGA  
President

Conforme:

  
Name of Authorized Representative

01/04/24  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE OF AWARD**

December 28, 2023

**Mr. TIMOTEO HERNANDEZ**  
**Machine and Computer World, Inc.**  
27 Guava Road, Potrero, Malabon City  
8363-0188 / 0999-9227310  
[tommyhph@yahoo.com](mailto:tommyhph@yahoo.com)

Dear Mr. Hernandez,


We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023 (Lots 2 and 3)** is hereby awarded to **MACHINE AND COMPUTER WORLD, INC.** pursuant of BAC Resolution No. **GD 2023-11-161-C** dated **December 23, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **MACHINE AND COMPUTER WORLD, INC.** in the total amount of **Nine Hundred Ninety-Five Thousand One Hundred Fifty Pesos and 00/100 (P 995,150.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

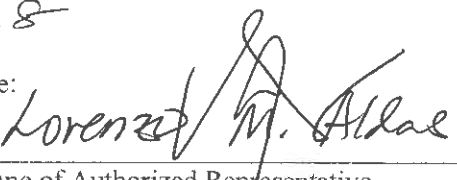
- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**P 49,757.50**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**P 298,545.00**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
Name of Authorized Representative

**1-3-2024**  
Date

*(All documents without PNU QS Stamp or Control Identifier are uncontrolled)*



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**BAC Resolution Declaring the Single Calculated and Responsive Bidder  
and Recommending Approval**

**Resolution No. GD-2023-11-161-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023** on November 25 – December 15, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Two Million Four Hundred Twenty-Six Thousand Pesos and 00/100 only (Php 2,426,000.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **04 December 2023 (Monday)** via Zoom, wherein one (1) interested supplier attended the Conference, namely:

1. Power Mac Center, Inc. represented by Mr. Krisstofer Quemquem  
([krisstofer.quemquem@powermaccenter.com](mailto:krisstofer.quemquem@powermaccenter.com))

**WHEREAS**, the Technology-Related Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **15 December 2023 (Friday)** at 9:00 AM held at the Library Online Commons, E.P. Dagot Hall;

**WHEREAS**, during the scheduled Opening of Bids, only two (2) suppliers bought the Official Bid Documents, and submitted Bid, namely **Power Mac Center, Inc.** and **Machine and Computer World, Inc.**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 – Lightweight Mid-Range Laptop Computer for Various Offices (ABC: Php 465,000.00)	Power Mac Center Inc.	464,994.00	Eligible
Lot 2 – Printers for Various Offices (ABC: Php 315,000.00)	Machine and Computer World Inc.	311,500.00	Eligible
Lot 3 – LCD Projector for Various Offices (ABC: Php 695,000.00)	Machine and Computer World Inc.	683,650.00	Eligible
Lot 4 – High-Performance Computing (HPC) Equipment (ABC: Php 951,000.00)	Power Mac Center Inc.	924,940.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Power Mac Center Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents for Lot 1 and Lot 4 only;

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Machine and Computer World Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents for Lot 2 and Lot 3 only;

**WHEREAS**, upon arithmetical computation, **Power Mac Center Inc.** Financial Bid amounting to **One Million Three Hundred Eighty-Nine Thousand Nine Hundred Thirty-Four Pesos and 00/100 (P 1,389,934.00)** with an equivalent of 1.84% (**P 26,066.00**) variance from the ABC was then Ranked No. 1 for Lots 1 and 4, subject to further evaluation to ascertain, verify, and validate the submitted bid;





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**WHEREAS**, upon arithmetical computation, **Machine and Computer World Inc.** Financial Bid amounting to **Nine Hundred Ninety-Five Thousand One Hundred Fifty Pesos and 00/100 (P 995,150.00)** with an equivalent of 1.47% (**P 14,850.00**) variance from the ABC was then Ranked No. 1 for Lots 2 and 3. subject to further evaluation to ascertain, verify, and validate the submitted bid;

**WHEREAS**, on **21 December 2023 (Thursday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Power Mac Center Inc.** and **Machine and Computer World Inc.** and were found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained their bid documents;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Power Mac Center Inc.**, its bid of **One Million Three Hundred Eighty-Nine Thousand Nine Hundred Thirty-Four Pesos and 00/100 (P 1,389,934.00)** was found to be responsive;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Machine and Computer World Inc.**, its bid of **Nine Hundred Ninety-Five Thousand One Hundred Fifty Pesos and 00/100 (P 995,150.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **POWER MAC CENTER INC.** be declared as the Single Calculated Responsive Bid for Lots 1 and 4, in consideration of its total amount of Bid equal to **One Million Three Hundred Eighty-Nine Thousand Nine Hundred Thirty-Four Pesos and 00/100 (P 1,389,934.00)**;
- b. That **MACHINE AND COMPUTER WORLD INC.** be declared as the Lowest Calculated Responsive Bid for Lot 3 in consideration of its total amount of Bid equal to **Nine Hundred Ninety-Five Thousand One Hundred Fifty Pesos and 00/100 (P 995,150.00)**;
- c. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **POWER MAC CENTER INC.** and **MACHINE AND COMPUTER WORLD INC.** upon adoption and approval of this BAC Resolution.
- e. To recommend the foregoing for the approval of the President of the Philippine Normal University



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**RESOLVED**, during the Regular Meeting held on **December 23, 2023**, virtually via Zoom application.

**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-11-161-C**

  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

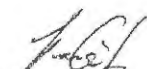
  
**JOHN F. NATIVIDAD**  
Vice-Chair / End-user

  
**MARIE PAZ E. MORALES**  
Member

  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE TO PROCEED

January 8, 2024

**Mr. TIMOTEO HERNANDEZ**  
**Machine and Computer World, Inc.**  
27 Guava Road, Potrero, Malabon City  
8363-0188 / 0999-9227310  
[tommyhph@yahoo.com](mailto:tommyhph@yahoo.com)

Dear Mr. Hernandez,

The attached Purchase Order having been approved, notice is hereby given to **MACHINE AND COMPUTER WORLD, INC.** that work may commence for the project: **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023 (Lots 2 and 3)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

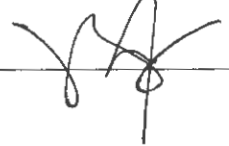
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) Feb 04 2024

Name of the Representative of the Bidder: Lorenzo M. Aldice

Authorized Signature: 





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731

[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE TO PROCEED**

January 10, 2024

**Ms. PAULINE ALLYZA MARIE G. ABUNDO**  
**Power Mac Center, Inc.**  
Unit 408 and 436 Cyberzone SM Megamall,  
Bldg. B Edsa, Wack Wack, Mandaluyong,  
Mandaluyong City  
0917-5136958 / 0917-8128921

**Dear Ms. Abundo,**

The attached Purchase Order having been approved, notice is hereby given to **POWER MAC CENTER, INC.** that work may commence for the project: **Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023 (Lots 1 and 4)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

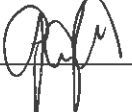
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President 

I acknowledge receipt of this Notice on (date of receipt) January 31, 2024

Name of the Representative of the Bidder: Pauline Abundo

Authorized Signature: 



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

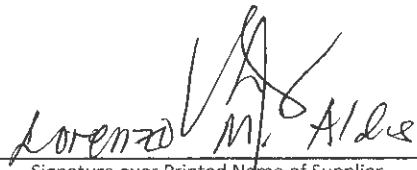
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>			
	units	<b>Brother DCP-T720DW</b> <b>Printer type:</b> Continuous Ink Tank System <b>Printer function:</b> Print-Scan-Copy <b>Print Speed:</b> 17 (Mono) / 16.5 (Col) ipm FPOT (first print out time): 6 (Mono) / 6.5 (Col) seconds <b>Paper Size:</b> A4, Letter, Legal, Folio, Executive, B5, A5, B6, A6, C5 Envelope, Com-10, DL Envelope, Monarch, Photo(10x15cm/4x6"), Photo-L(9x13cm/3.5x5"), Photo-2L(13x18cm/5x7"), Index <b>Maximum Paper Capacity:</b> Up to 150 sheets (80 gsm) <b>Printing Specifications</b> <b>Maximum Printing Resolution:</b> Up to 1,200 x 6,000 dpi <b>Printing Width:</b> With border: 204 mm Borderless: 210 mm <b>Borderless:</b> A4, Letter, Executive, A5, A6, Photo 4"x6", Index card 5"x8", Photo 5"x7", Photo-3.5"x5" <b>2-Sided – Paper Type:</b> Plain, Recycled <b>2-Sided – Paper Size:</b> PC Print: A4/Letter/Executive/A5 Copy: A4/A5/Letter <b>Scanning Specifications</b> <b>Scanning Options:</b> Colour and Monochrome <b>Colour Depth:</b> Input: 30 bit colour processing Output: 24 bit colour processing/256 levels per colour <b>Greyscale Depth:</b> Input: 10 bit colour processing Output: 8 bit colour processing/256 levels per colour <b>Scanning Resolution:</b> Scanner Glass: Up to 1,200 dpi x 2,400 dpi ADF: Up to 1,200 dpi x 600 dpi	6	₱13,247.85	₱79,487.10

Page 1 of 8

(Total Amount in Words) ₱79,487.10

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

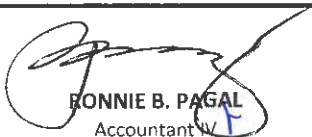
Conforme:

  
Signature over Printed Name of Supplier  
FEB 04 2024  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: 925,150

  
BONNIE B. PAGAL  
Accountant IV

ORS/BURS No.:  
Amount:



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>			<b>Balance Forwarded</b> <b>₱79,487.10</b>
		<b>Scanning Width:</b> Scanner Glass: Max. 213.9 mm ADF: Max. 213.9 mm <b>Scanning Length:</b> Scanner Glass: Max. 295 mm ADF: Max. 353.6 mm <b>Copying Specifications</b> <b>Copying Options:</b> Colour and Monochrome <b>Maximum Copies:</b> 99 pages <b>Enlarge/Reduce Options:</b> 25% to 400% in increments of 1% <b>Resolution:</b> Print: Max. 1200x2400 dpi, Scan: Max. 1200x600 dpi <b>Connectivity</b> <b>USB:</b> Hi-Speed USB 2.0 <b>Wireless LAN:</b> IEEE 802.11b/g/n (Infrastructure) IEEE 802.11g/n (Wi-Fi Direct) <b>Operating System Supported</b> <b>Microsoft Windows Operating System:</b> Windows® 7 SP1/8.1/10/11 Server 2008/2008 R2/2012/2012 R2/2016/2019 <b>Mac Operating System:</b> macOS latest version macOS 13.x macOS 12.x macOS 11.x macOS 10.15.x macOS 10.14.x macOS 10.13.x <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening.			

Page 2 of 8

(Total Amount in Words)	₱79,487.10
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Lorena M. Aldae  
Signature over Printed Name of Supplier  
Feb 04 2024  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: ₱15,150	 RONNIE B. PAGAL Accountant IV	ORS/BURS No.: Amount:
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

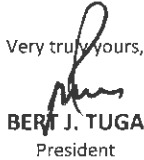

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>		<b>Balance Forwarded</b>	<b>₱79,487.10</b>
		<b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/bidder during the bid opening. <b>Additional Requirement:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the Post-Qualification process.			
	unit	<b>Brother MFC-T920DW</b> <b>Printer type:</b> Continuous Ink Tank System <b>Printer function:</b> Print, Scan, Copy, Fax <b>Print Speed:</b> 17 (Mono) / 16.5 (Col) ipm FPOT (first print out time): 6 (Mono) / 6.5 (Col) seconds <b>Paper Size:</b> A4, Letter, Legal, Folio, Executive, BS, A5, B6, A6, C5 Envelope, Com-10, DL Envelope, Monarch, Photo(10x15cm/4x6"), Photo-L(9x13cm/3.5x5"), Photo-2L(13x18cm/5x7"), Index card(13x20cm/5x8") <b>Maximum Paper Capacity:</b> Up to 230 sheets (80 gsm) <b>Printing Specifications</b> <b>Maximum Printing Resolution:</b> Up to 1,200 x 6,000 dpi <b>Printing Width:</b> With border: 204 mm Borderless: 210 mm <b>Borderless:</b> A4, Letter, Executive, A5, A6, Photo 4"x6", Index card 5"x8", Photo 5"x7", Photo-3.5"x5" <b>2-Sided – Paper Type:</b> Plain, Recycled <b>2-Sided – Paper Size:</b> PC Print: A4/Letter/Executive/A5 Copy: A4/A5/Letter <b>Scanning Specifications</b> <b>Scanning Options:</b> Colour and Monochrome <b>Colour Depth:</b> Input: 30 bit colour processing Output: 24 bit colour processing/256 levels per colour	1	₱19,558.90	₱19,558.90

(Total Amount in Words) ₱99,046.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	 BERT J. TUGA President
 Signature over Printed Name of Supplier Feb 09 2024 Date	

Funds Available: 995,150	 RONNIE B. PAGAL Accountant IV	ORS/BURS No.: Amount:
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
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<b>Supply and Delivery of Various IT Equipment for the</b>	<b>Balance Forwarded</b>	<b>₱99,046.00</b>
<b>Different Units in the University for FY 2023</b>		

**Greyscale Depth:**  
Input: 10 bit colour processing  
Output: 8 bit colour processing/256 levels per colour  
**Scanning Resolution:**  
Scanner Glass: Up to 1,200 dpi x 2,400 dpi  
ADF: Up to 1,200 dpi x 600 dpi  
**Scanning Width:**  
Scanner Glass: Max. 213.9 mm  
ADF: Max. 213.9 mm  
**Scanning Length:**  
Scanner Glass: Max. 295 mm  
ADF: Max. 353.6 mm

**Copying Specifications**  
**Copying Options:** Colour and Monochrome  
**Maximum Copies:** 99 pages  
**Enlarge/Reduce Options:** 25% to 400% in increments of 1%  
**Resolution:** Print: Max. 1200x2400 dpi, Scan: Max. 1200x600 dpi

**Fax Specifications**  
**Compatibility:** ITU-T Group 3  
**Modem Speed:** 14.4 Kbps  
**Resolution:**  
Standard – Mono: 230x98 dpi  
Superfine – Mono: 196x392 dpi  
**PC Fax:**  
Sending: Network/USB, up to A4  
Receiving: Network/USB up to A4

**Connectivity**  
**USB:** Hi-Speed USB 2.0  
**LAN:** Ethernet 10/100BASE-TX Auto Negotiation  
**Wireless LAN:**  
IEEE 802.11b/g/n (Infrastructure)  
IEEE 802.11g/n (Wi-Fi Direct)

Page 4 of 8

(Total Amount in Words)	₱99,046.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier  
Feb 04 2024  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: ₱15,150

RONNIE B. PAGAL  
Accountant IV

ORS/BURS No.:  
Amount:



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the</b> <b>Different Units in the University for FY 2023</b>		<b>Balance Forwarded</b>	<b>₱99,046.00</b>
		<b>Operating System Supported</b> <b>Microsoft Windows Operating System:</b> Windows® 7 SP1/8.1/10/11 Server 2008/2008 R2/2012/2012 R2/2016/2019 <b>Mac Operating System:</b> macOS latest version macOS 13.x macOS 12.x macOS 11.x macOS 10.15.x macOS 10.14.x macOS 10.13.x <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/bidder during the bid opening. <b>Additional Requirement:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the Post-Qualification process.			
	units	<b>Epson Workforce AL-C9500DN</b> <b>Maximum Monthly Duty Cycle:</b> Up to 100,000 pages <b>Automatic Duplex Printing:</b> up to A3 <b>Paper Size:</b> Paper Cassettes: A5, A4(SEF,LEF), A3, B5, B4, Letter(SEF,LEF), Legal, US B, Custom: 210 x 148 mm to 297 x 431.8 mm MP Tray: A6, A5, A4(SEF,LEF), A3, B5, B4, Half Letter, Executive, 8 x 10.5 in, 8.27 x 13 in, Letter (SEF,LEF), 8.5 x 13 in, Legal, US B, Monarch Envelopes: #10, DL, C6, C5, B5, Custom: 75 x 98 mm to 297 x 431.8 mm <b>Standard Paper Input Capacity:</b> Up to 405 sheets (155 sheets MP Tray, 250 sheets Standard Cassette)	2	₱106,227.00	₱212,454.00

(Total Amount in Words) ₱311,500.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	 Signature over Printed Name of Supplier Feb 06 2024 Date	Very truly yours,  BERT J. TUGA President
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Funds Available: 995,150	 RONNIE B. PAGAL Accountant IV	ORS/BURS No.: _____ Amount: _____
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

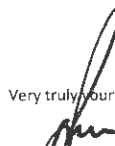
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the</b> <b>Different Units in the University for FY 2023</b>  <b>Printing Specifications</b> <b>Printing Technology:</b> A3 Colour Laser Printer <b>Maximum Printing Resolution:</b> 1200 x 1200 dpi <b>Print Speed:</b> Up to 35 ppm (Simplex) / Up to 25 ppm (Duplex) <b>Maximum Monthly Print Volume:</b> Up to 100,000 pages <b>Maximum Paper Size:</b> 297 x 431.8 mm <b>Paper Type:</b> Plain Paper / Letterhead / Recycled / Colour / Preprinted / Semi-thick / Thick Paper1 / Thick Paper2 / Labels / <b>Connectivity</b> <b>USB:</b> USB 3.0 <b>Wired LAN:</b> Ethernet (1000Base-T/100Base-TX/10Base-T) <b>Operating System Supported</b> <b>Microsoft Windows Operating System:</b> Windows 8 / 8.1 / 10 / 11 Windows Server 2003 / 2008 / 2012 / 2016 / 2019 or later <b>Mac Operating System:</b> Mac OS X 10.6.8 or later <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/bidder during the bid opening. <b>Additional Requirement:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening.  <b>Balance Forwarded</b>			₱311,500.00
	units	<b>Epson EB-FH52 Full HD 3LCD Projector</b> <b>Minimum Requirements or its equivalent</b> <b>Resolution:</b> 1080p <b>Brightness:</b> Up to 4,000 lumens <b>Connectivity:</b> USB Type A, Composite RCA, D-Sub 15-pin, HDMI, 2RCA for audio <b>Contrast Ratio:</b> 16,000:1 <b>Aspect Ratio:</b> 16:9 <b>Screen Size (Projected Distance):</b> Up to 300 inches	9	₱35,000.00	₱315,000.00


Page 6 of 8

(Total Amount in Words) ₱626,500.00


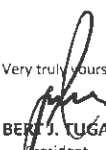

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:   
Signature over Printed Name of Supplier  
Date Feb 06 2024

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: 945,151   
BONNIE B. PAGA  
Accountant IV

ORS/BURS No.:  
Amount:

		<b>PURCHASE ORDER</b> Philippine Normal University Agency			
Supplier: <b>MACHINE AND COMPUTER WORLD, INC.</b>		P.O. No. <b>24-01-0001</b>			
Address: <b>27 Guava Road, Potrero, Malabon City</b>		Date: <b>January 8, 2024</b>			
TIN : <b>213-755-116-000</b>		Mode of Procurement: <b>Public Bidding</b>			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>		Delivery Term: <b>within 60 calendar days</b>			
Date of Delivery:		Payment Term:			
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>	<b>Balance Forwarded</b>		<b>P626,500.00</b>
		<b>Additional Features:</b> Built-In Wireless LAN Screen Mirroring <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/ bidder during the bid opening. <b>Additional Requirement:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the post-Qualification process.			
	unit	<b>Epson EB-695Wi Ultra-Short Throw Interactive WXGA 3LCD Projector</b> <b>Minimum Requirements or its equivalent</b> <b>Brightness:</b> Up to 3,000 lumens <b>Connectivity:</b> D-Sub 15Pin, Composite, HDMI, Stereo Mini Jack, USB Type A, USB Type B, Microphone, Touch Unit Control, Wired LAN <b>Contrast Ratio:</b> 14,000:1 <b>Screen Size (Projected Distance):</b> Up to 100" <b>Native Resolution:</b> WXGA <b>Interactive Unit:</b> Technology: Infrared <b>Input Devices:</b> Digital Pen, Finger Connection To Computer: USB, Network Calibration: Pen (25points), Finger (16points) Functions: Hover, Right Click, Auto Adjust Pen Area <b>Additional Features:</b> Ultra-Short Throw Finger Touch Interactive Dual Screen Interactivity <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening.	<b>1</b>	<b>P101,866.00</b>	<b>P101,866.00</b>
<div>Page 7 of 8</div>					
(Total Amount in Words)					<b>P728,366.00</b>
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.					
Conforme:		<div>Very truly yours,  <b>BERT J. TUGA</b> President</div>			
 <b>Lorenzo M. Alba</b> Signature over Printed Name of Supplier Date _____					
Funds Available:  <b>RONNIE B. PAGAL</b> Accountant IV		ORS/BURS No.: _____ Amount: _____			



PURCHASE ORDER

Philippine Normal University  
Agency

Supplier:	MACHINE AND COMPUTER WORLD, INC.	P.O. No.	24-01-0001
Address:	27 Guava Road, Potrero, Malabon City	Date:	January 8, 2024
TIN :	213-755-116-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply and Delivery of Various IT Equipment for the</u> <u>Different Units in the University for FY 2023</u>		Balance Forwarded	P728,366.00
		<b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/ bidder during the bid opening. <b>Additional Requirements:</b> With Product Training With Installation services Bidders must submit the brochure with technical specifications of the offered product during bid opening.			
	unit	Epson EB-L730U WUXGA 3LCD Laser Projector Minimum Requirements or its equivalent Brightness: Up to 7,000 lumens Connectivity Wired LAN, Wireless Connectivity, D-Sub 15Pin, HDMI, Stereo Mini Jack, D-Sub 9pin, USB Type A, USB Type B Contrast Ratio: Over 2,500,000:1 Screen Size (Projected Distance): Up to 500" Native Resolution: WUXGA resolution, 1920x1200 Lightsource: Type: Laser Diode Aspect Ratio: 16:10 Additional Features: Split Screen Function Screen Mirroring Warranty: One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer Provide certification as RoHS compliant environmentally friendly or its equivalent. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. Bidders must have at least 2 certified technical support engineers of the offered brand, provide certification issued by the brand manufacturer/ bidder during the bid opening. <b>Additional Requirements:</b> with Ceiling Mount equipment with Wireless module for Wifi connection with installation services Bidders must submit the brochure with technical specifications of the offered product during bid opening. ----- Nothing Follows -----	1	P266,784.00	P266,784.00
				References: BAC Sol# GD 2023-11-161 PR# 23-03-0614; 23-04-0851;23-05-1149 23-05-1183;23-07-1505;23-01-0225 23-10-2046;23-02-0420;23-05-1161 23-04-0947 Ref# 10363118	

(Total Amount in Words)	Nine Hundred Ninety-Five Thousand One Hundred Fifty Pesos and 00/100 only	P995,150.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier  
Feb 04 2024  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: 0005.150

RONNIE B. PAGA  
Accountant IV

ORS/BURS No.:  
Amount:



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0004
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 11, 2024
TIN :	004-451-692-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

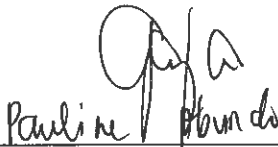
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>			
	units	<b>24-inch (iMac with Retin Philippines), 4.5K display: Apple M3 chip with 8-core CPU and 10-core GPU, 512GB SSD-Silver Processor:</b> CPU: at least 8-core CPU with 4 performance cores and 4 efficiency cores GPU: at least 10-core GPU with at least 16-core Neural Engine <b>Memory:</b> At least 8GB unified memory <b>Storage:</b> At least 512GB SSD <b>Connectivity:</b> Gigabit Ethernet 802.11ax Wi-Fi 6 wireless networking Bluetooth 5.3 wireless technology <b>Camera:</b> 1080p HD camera with image signal processor <b>Audio:</b> High-fidelity six-speaker system with force-canceling woofers Wide stereo sound Supports spatial audio Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming <b>Display:</b> 24-inch 4.5K display, 4480 x 2520 resolution 500 nits brightness Wide color (P3) <b>I/O Ports:</b> Gigabit Ethernet Thunderbolt 3 (up to 40Gbps) with support to native DisplayPort, VGA, HDMI, DVI, and Thunderbolt 2 USB 4 (up to 40 Gbps) USB 3.1 Gen 2 (up to 10 Gbps) 3.5mm headphone jack <b>Input Devices:</b> Wireless Keyboard with Numeric Keypad with Fingerprint ID security Wireless Mouse with Multi-Touch feature	2	₱102,990.00	₱205,980.00

Page 1 of 6

(Total Amount in Words)	₱205,980.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Pauline P. Bundo  
Signature over Printed Name of Supplier  
01/31/24  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: 924,940	 RONNIE B. PAGAL Accountant IV	ORS/BURS No.: 66-09308603-2024-01-027 Amount: ₱ 924,940
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0004
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 11, 2024
TIN :	004-451-692-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>		<b>Balance Forwarded</b>	<b>₱205,980.00</b>
		<b>Chassis / Case:</b> All-in-One Desktop form factor with at least 143W power adapter <b>Operating System:</b> Pre-installed Operating System compatible with the hardware components and the numeric computing environment software of GTEF. <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. ENERGY STAR certified. <b>Additional Requirements:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the Post-Qualification process.			
	unit	<b>13-inch MacBook Air: Apple M3 chip with 8-core CPU and 10-Core GPU, 512 GB - Silver</b> <b>Processor:</b> CPU: at least 8-core CPU with 4 performance cores and 4 efficiency cores GPU: at least 10-core GPU With at least 16-core Neural Engine <b>Memory:</b> At least 8GB unified memory <b>Storage:</b> At least 512GB SSD <b>Connectivity:</b> 802.11ax Wi-Fi 6 wireless networking Bluetooth 5.3 wireless technology <b>Camera:</b> 1080p HD camera with image signal processor <b>Audio:</b> Four-speaker sound system Wide stereo sound Supports spatial audio Three-mic array with directional beamforming	1	₱81,990.00	₱81,990.00

(Total Amount in Words) ₱287,970.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Pauline Abundo  
Signature over Printed Name of Supplier  
01/11/24  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available:

924,940

RONNIE B. PAGAL  
Accountant IV

ORS/BURS No.: D6-07308603-2024-11-027  
Amount: ₱ 924,940



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0004
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 11, 2024
TIN :	004-451-692-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><u>Supply and Delivery of Various IT Equipment for the</u> <u>Different Units in the University for FY 2023</u></p> <p><b>Display:</b> 13.6-inch LED-backlit display with IPS Technology 2560 x 1664 native resolution 500 nits brightness Wide color (P3)</p> <p><b>I/O Ports:</b> Two Thunderbolt/USB 4 ports (up to 40Gbps) with support to native DisplayPort, VGA, HDMI, DVI, Charging and Thunderbolt 2 3.5mm headphone jack</p> <p><b>Input Devices:</b> Backlit Keyboard with Fingerprint ID security Touch trackpad</p> <p><b>Power supply:</b> with 35W power adapter and USB-C to power adapter cable</p> <p><b>Operating System:</b> Pre-installed Operating System compatible with the hardware components and the mathematical computation program and the proprietary multi-paradigm programming language and numeric computing environment software of GTEF.</p> <p><b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and One (1) year warranty on battery and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening.</p> <p><b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. ENERGY STAR certified. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening.</p> <p><b>Additional Requirements:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the Post-Qualification process.</p>			
	unit	14-inch MacBook Pro: Apple M3 chip with 8-core CPU and 10-core GPU, 512 GB SSD - Silver <b>Processor:</b> CPU: at least 8-core CPU with 4 performance cores and 4 efficiency cores GPU: at least 10-core GPU with at least 16-core Neural Engine	1	₱97,990.00	₱97,990.00
Balance Forwarded					₱287,970.00

Page 3 of 6

(Total Amount in Words) ₱385,960.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Pauline P. Bando  
Signature over Printed Name of Supplier  
01/31/24  
Date

Very truly yours,  
BERT J. TUGA  
President

Funds Available: 924,940	RONNIE B. PAGAL Accountant V	ORS/BURS No.: D6-07308603-2024-01-02 Amount: ₱924,940
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0004
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 11, 2024
TIN	004-451-692-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><u>Supply and Delivery of Various IT Equipment for the</u> <u>Different Units in the University for FY 2023</u></p> <p><b>Memory:</b> at least 8GB unified memory</p> <p><b>Storage:</b> At least 512GB SSD</p> <p><b>Connectivity:</b> 802.11ax Wi-Fi 6 wireless Bluetooth 5.3 wireless technology</p> <p><b>Camera:</b> 1080p HD camera with advanced image signal processor</p> <p><b>Audio:</b> High-fidelity six-speaker sound system with force-cancelling woofers Wide stereo sound Supports spatial audio Stereo quality three-mic array with directional beamforming</p> <p><b>Display</b> 14.2-inch LED-backlit display with IPS Technology 3024x1964 native resolution 600 nits brightness Wide color (P3)</p> <p><b>I/O Ports:</b> Two Thunderbolt/USB 4 ports (up to 40Gbps) with support to native DisplayPort, VGA, HDMI, DVI, Charging and Thunderbolt 2 3.5mm headphone jack</p> <p><b>Input Devices:</b> Backlit Keyboard with Fingerprint ID security Touch trackpad</p> <p><b>Power supply:</b> with 70W power adapter and USB-C to power adapter cable</p> <p><b>Operating System:</b> Pre-installed Operating System compatible with the hardware components and numeric computing environment software of GTEF.</p> <p><b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and One (1) year warranty on battery and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening.</p> <p><b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. ENERGY STAR certified. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening.</p> <p><b>Additional Requirements:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening. Winning bidder must present a sample model of the offered product during the Post-Qualification process.</p>			Balance Forwarded P385,960.00

Page 4 of 6

(Total Amount in Words)	P385,960.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Pauline Abundo  
Signature over Printed Name of Supplier  
01/31/24  
Date

Very truly yours,


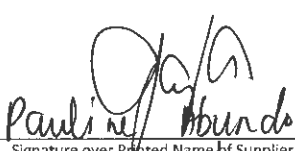
BERT J. JAGA  
President

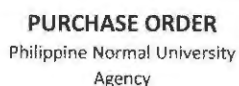
Funds Available:

924,940

RONNIE B. PAGALAN  
Accountant IV

ORS/BURS No.: 16-09208603-2024-01-027  
Amount: P924,940

		<b>PURCHASE ORDER</b> Philippine Normal University Agency			
Supplier: <b>POWER MAC CENTER, INC.</b>		P.O. No. <b>24-01-0004</b>			
Address: <b>Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City</b>		Date: <b>January 11, 2024</b>			
TIN : <b>004-451-692-000</b>		Mode of Procurement: <b>Public Bidding</b>			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>		Delivery Term: <b>within 60 calendar days</b>			
Date of Delivery:		Payment Term:			
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>		<b>Balance Forwarded</b>	<b>₱385,960.00</b>
	<b>unit</b>	<b>MacPro</b> <b>Processor:</b> CPU: at least 24-core CPU GPU: at least 60-core GPU with at least 32-core Neural Engine <b>Memory:</b> at least 64GB unified memory <b>Storage:</b> At least 1TB SSD <b>Connectivity:</b> Wi-Fi 6 (802.11ax) Bluetooth 5.3 10Gb (Nbase-T Ethernet with support for 1Gb, 2.5Gb, 5Gb, and 10Gb Ethernet using RJ-45 connector) <b>Audio:</b> Built-in speaker 3.5mm headphone jack HDMI port supports multichannel audio output <b>I/O Ports:</b> Eight Thunderbolt/USB 4 ports (up to 40Gbps) Two USB-A ports (up to 5 Gbps) Two HDMI ports Two 10Gb Ethernet ports 3.5mm headphone jack <b>Input Devices:</b> Wireless Keyboard with Numeric Keypad with Fingerprint ID security Wireless Mouse with Multi-Touch feature <b>Chassis/Casing:</b> Tower form factor Stainless Steel frame with feet <b>Operating System:</b> Pre-installed Operating System compatible with the hardware components and the mathematical computation program, multi-paradigm programming language and numeric computing environment software of GTEF.  <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty during the bid opening.  <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. ENERGY STAR certified. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. <b>Additional Requirements:</b> Bidders must submit the brochure with technical specifications of the offered product during bid opening.	<b>1</b>	<b>₱449,990.00</b>	<b>₱449,990.00</b>
Page 5 of 6					
(Total Amount in Words)					<b>₱835,950.00</b>
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.					
Conforme:		Very truly yours,  <b>BERT J. TUGA</b> resident			
 Signature over Printed Name of Supplier <b>Pauline Abundo</b> Date: <b>01/31/24</b>					
Funds Available: <b>924,940</b>  <b>RONNIE B. PAGAL</b> Accountant IV		ORS/BURS No.: <b>06-0308003-2024-01-087</b> Amount: <b>₱924,940</b>			



TIN : 004-451-692-000

Mode of Procurement: Public Bidding

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Payment Term:

**RONNIE B. PAGA**  
Accountant IV

**BERT J. TUGA**  
President

Amount: \$ 924.94





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0002
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 10, 2024
TIN :	004-451-692-000	Mode of Procurement:	Public Bidding

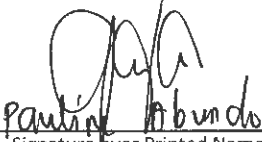
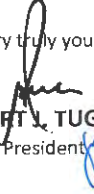
Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</u>			
	unit	13-inch MacBook Air: Apple M1 Chip with 8-core CPU and 7-core GPU, 256GB - Silver Processor: Cores: 6-core or higher Threads: 12-thread or higher Max Turbo Frequency: up to 4.2 GHz or higher Cache: 19MB or higher or equivalent processor with at least 8-core CPU (4 performance cores and 4 efficiency cores), 7-core GPU and 16-core Neural Engine. Memory: At least 8GB of DDR4 memory or equivalent 8GB unified memory Graphics / Video Processor: Integrated Graphics card Storage: At least 256GB M.2 NVMe PCIe 3.0 Performance SSD or equivalent 256GB SSD Connectivity: Wi-Fi 6(802.11ax)+Bluetooth 5.0 (Dual band) 2*2 Camera: 720p HD camera with built-in privacy shutter or equivalent 720p HD camera with Advanced image signal processor with computation video Audio: Built-in speaker Built-in array microphone Display: At least 13-inch, 2560 x 1600 resolution LED-backlit display with IPS Technology 400nits brightness I/O Ports: USB 3.2 Gen 1 Type-A USB 3.2 Gen 1 Type-C USB 2.0 Type-A or USB 3.1 Type-A HDMI 1.4 or equivalent two (2) USB 4, Type-C ports that supports DisplayPort (HDMI), Thunderbolt 3, USB 4 and USB 3.1 Gen 2 with 3.5mm Combo Audio Jack	9	₱51,666.00	₱464,994.00

(Total Amount in Words)	₱464,994.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	 Signature over Printed Name of Supplier 01   31   24 Date	Very truly yours,  BERT J. TUGA President
-----------	--------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

Funds Available: 464,994	 RONNIE B. PAGAL Accountant IV	ORS/BURS No.: 86-45206441-2024-01-006 Amount: ₱464,994
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PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	POWER MAC CENTER, INC.	P.O. No.	24-01-0002
Address:	Unit 408 and 436, Cyberzone, SM Megamall, Bldg. B, Edsa, Mandaluyong City	Date:	January 10, 2024
TIN :	004-451-692-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 60 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply and Delivery of Various IT Equipment for the Different Units in the University for FY 2023</b>		<b>Balance Forwarded</b>	<b>₱464,994.00</b>
		<b>Keyboard and Touchpad:</b> Backlit Keyboard Touchpad <b>Security:</b> BIOS Booting User Password Protection Trusted Platform Module (Firmware TPM) BIOS setup user password Fingerprint sensor integrated with Power Key or Facial Recognition Security feature <b>Operating System:</b> Licensed Pre-installed Latest Operating System 64-bit architecture, with recovery OS drivers and utilities compatible with the hardware and other peripherals <b>Ecolabels and Compliances:</b> Energy star certified or its equivalent <b>Warranty:</b> One (1) year warranty on parts, labor and on-site technical support and one (1) year warranty on battery and shall take effect upon issuance of Certificate of Final Acceptance, provide a Certificate of Warranty from the Manufacturer during the bid opening. <b>Certification:</b> Provide certification as Authorized Reseller/Supplier issued by the brand manufacturer. The Brand Manufacturer must be an ISO 9001:2015, provide certification during bid opening. <b>Additional Requirements:</b> With wireless mouse of the offered brand Bidders must submit the brochure with technical specifications of the offered product during bid opening.  ----- Nothing Follows -----			
Page 2 of 2					
<div>References: BAC Sol# GD 2023-11-161 PR# 23-03-0630; 23-04-0821; 23-04-0861; 23-09-1938 Ref# 10363118</div>					

(Total Amount in Words)	Four Hundred Sixty-Four Thousand Nine Hundred Ninety-Four Pesos and 00/100 only	₱464,994.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Pauline Abundo  
Signature over Printed Name of Supplier  
01/31/24  
Date

BERT J. TUGA  
President

Funds Available: 464,994	RONNIE B. PAGAL Accountant IV	ORS/BURS No.: 16-1026641-2024-01-006 Amount: ₱464,994
--------------------------	----------------------------------	----------------------------------------------------------



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

November 11, 2023

**Ms. ARIAN G. JUGADO**  
**Builtrade Construction Supply**  
170 Katipunan Avenue, Blue Ridge, Quezon City  
8985-6855 / 0920-4967223  
[builtrade.salesdepartment@gmail.com](mailto:builtrade.salesdepartment@gmail.com)

Dear Ms Jugado:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment (Lot 2 and Lot 4)** is hereby awarded to **BUILTRADE CONSTRUCTION SUPPLY** pursuant of BAC Resolution No. GD 2023-08-101-C dated **November 9, 2023**.


Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **BUILTRADE CONSTRUCTION SUPPLY** in the total amount **(Lot 2 and Lot 4) of Six Hundred Sixty-Five Thousand Four Hundred Nineteen Pesos and 80/100 only (₱ 665,419.80)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 33,270.99); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 199,625.94); or
- c. Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,

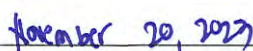
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
**ARIAN G. JUGADO**

\_\_\_\_\_  
Name of Authorized Representative

  
\_\_\_\_\_  
Date





**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval for Award**

**Resolution No. GD 2023-08-101-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply and Delivery of Various Construction Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment** on September 14 – October 4, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **One Million Eight Hundred Seventy-Four Thousand Seven Hundred Fifty Pesos and 00/100 only (₱ 1,874,750.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **20 September 2023 (Wednesday)** at Library Commons, wherein two (2) interested suppliers attended the conference, namely:

1. **Star Gatz Enterprises Company LTD** represented by Ms. Zorayda Gatdula ([stargatzenterprises@gmail.com](mailto:stargatzenterprises@gmail.com))
2. **Builtrade Construction Supply** represented by Ms. Arian Jugado ([builtrade.salesdepartment@gmail.com](mailto:builtrade.salesdepartment@gmail.com))

**WHEREAS**, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **4 October 2023 (Wednesday)** at 2:00 PM held at 2<sup>nd</sup> Floor Library Multimedia Room, Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **Builtrade Construction Supply**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 Airconditioning Materials (ABC ₱ 147,000.00)	No Bidder	No bid	No bid
Lot 2 Carpentry and Plumbing (ABC ₱ 322,750.00)	Builtrade Construction Supply	₱ 231,173.00	Eligible
Lot 3 Electrical (ABC ₱ 965,000.00)	Builtrade Construction Supply	₱ 439,055.00	Eligible
Lot 4 Painting (ABC ₱ 440,000.00)	Builtrade Construction Supply	₱ 434,246.80	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Builtrade Construction Supply** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents for **Lot 2 (Carpentry and Plumbing)** and **Lot 4 (Painting)** only, for **Lot 3 (Electrical)** two (2) items did not comply with and satisfy the said requirements;

**WHEREAS**, upon arithmetical computation, **Builtrade Construction Supply** financial bid for (a) Lot 2 amounting to **Two Hundred Thirty-One Thousand One Hundred Seventy-Three Pesos and 00/100 only (₱ 231,173.00)** with an equivalent of 28.37% (₱ 91,577) variance; (b) Lot 3 amounting to **Four Hundred Thirty-Nine Thousand Fifty-Five Pesos and 00/100 only (₱ 439,055.00)** with an equivalent of 54.50% (₱ 525,945.00) variance; and (c) Lot 4 amounting to **Four Hundred Thirty-Four Thousand Two Hundred Forty-Six Pesos and 80/100 only (₱ 434,246.80)** with an equivalent of 1.31% (₱ 5,753.20) variance from the ABC was then Ranked No. 1, subject to further evaluation to ascertain, verify, and validate the submitted bid; and

**WHEREAS**, on **20 October 2023**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Builtrade Construction Supply**, and was



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;

NOW, THEREFORE, WE, the Members of the Regular Bids and Awards Committee do hereby RESOLVE as it is hereby RESOLVED:

- That **BUILTRADE CONSTRUCTION SUPPLY** be declared as the Single Calculated Responsive Bid in consideration of its amount of Bid equal for Lot 2 to **Two Hundred Thirty-One Thousand One Hundred Seventy-Three Pesos and 00/100 only (₱ 231,173.00)**; and Lot 4 amounting to **Four Hundred Thirty-Four Thousand Two Hundred Forty-Six Pesos and 80/100 only (₱ 434,246.80)**;
- That the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **BUILTRADE CONSTRUCTION SUPPLY** to verify, validate and ascertain its bid documents;
- That the BAC declared **Lot 1 (Airconditioning Materials)** cancelled and **Lot 3 (Electrical)** to procure under Section 53.9 Negotiated Procurement – Small Value as the new mode of procurement with **ABC of ₱965,000.00**;
- That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- That, a **Notice of Award (NOA)** be issued to **BUILTRADE CONSTRUCTION SUPPLY**, upon adoption and approval of this BAC Resolution.
- To recommend the foregoing for the approval of the President of the Philippine Normal University.

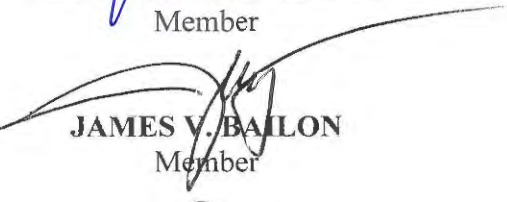
RESOLVED, during the Emergency Meeting held on November 9, 2023, virtually via Zoom App.

**BIDS AND AWARDS COMMITTEE**  
Resolution No. GD 2023-08-101-C

  
**FLORENCE A. ALLEJOS**  
Member

  
**LORDINIO A. VERGARA**  
Chair

  
**JENITH M. DE GUZMAN**  
Member

  
**JAMES V. BAILON**  
Member

  
**JENNY C. MALITAO**  
Vice-Chair

  
**HELEN A. ADVINCULA**  
Member

  
**JOHN P. NATIVIDAD**  
End User

  
**LEONORA P. NARAG**  
Member

  
**JOSE BRIANNE M. CALING**  
Technical Representative

APPROVED  
  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**NOTICE TO PROCEED**

November 24, 2023

**Ms. ARIAN G. JUGADO**  
**Builtrade Construction Supply**  
170 Katipunan Avenue, Blue Ridge, Quezon City  
8985-6855 / 0920-4967223  
[builtrade.salesdepartment@gmail.com](mailto:builtrade.salesdepartment@gmail.com)


Dear Ms Jugado:

The attached Purchase Order having been approved, notice is hereby given to **BUILTRADE CONSTRUCTION SUPPLY** that work may commence for the project: **Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment (Lot 2 and Lot 4)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.


Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) December 4, 2023

Name of the Representative of the Bidder: ARIAN G. JUGADO

Authorized Signature: 





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>BUILTRADE CONSTRUCTION SUPPLIES</b>	P.O. No. <b>23 - 11 - 0427</b>
Address: <b>170 Katipunan Avenue, Blue Ridge A. Quezon City</b>	Date: <b>November 24, 2023</b>
TIN : <b>912-681-120-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

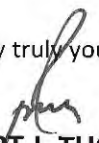
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>					
<b><u>LOT 2 - CARPENTRY AND PLUMBING</u></b>					
1	pc.	<b>Marine Plywood (Unbranded)</b> * Grade: A * Thickness: 5.00mm - 6.00mm * Species: Full Hardwood Core * Glue: Moisture Resistant	20	₱938.00	₱18,760.00
2	pc.	<b>Marine Plywood - UNBRANDED</b> * Grade: A * Thickness: 18.00mm - 19.00mm * Species: Full Hardwood Core * Glue: Moisture Resistant	20	₱2,668.40	₱53,368.00
3	pc.	<b>Wood Lumber (unbranded)</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 1/2 x 1" x 12' * Actual Size: 1/4 x 3/4" x 12'	50	₱108.00	₱5,400.00
Page 1 of 7					
				References: BAC Sol# GD 2023-08-101 PR# 23-07-1577 Ref# 10130505	

(Total Amount in Words) ₱77,528.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
Dec 4, 2023  
Date

Very truly yours,  
  
**BERT J. TUGA**  
President

Funds Available: **₱665,419.80**

**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.: 02-0110101-2023-11-1891  
Amount: ₱665,419.80



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>BUILTRADE CONSTRUCTION SUPPLIES</b>	P.O. No.	<b>23 - 11 - 0427</b>
Address:	<b>170 Katipunan Avenue, Blue Ridge A. Quezon City</b>	Date:	<b>November 24, 2023</b>
TIN :	<b>912-681-120-000</b>	Mode of Procurement:	<b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 30 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>	Balance Forwarded		<b>₱77,528.00</b>
4	pcs	<b>Wood Lumber (Unbranded)</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 1/2 x 2" x 12' * Actual Size: 1/4 x 1 1/2" x 12'	50	₱157.50	<b>₱7,875.00</b>
5	pcs	<b>Wood Lumber (Unbranded)</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 1 x 1" x 12' * Actual Size: 3/4 x 3/4" x 12'	50	₱157.50	<b>₱7,875.00</b>
6	pcs	<b>Wood Lumber (Unbranded)</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 1 x 2" x 12' * Actual Size: 3/4 x 1 1/2" x 12'	50	₱292.50	<b>₱14,625.00</b>


(Total Amount in Words) **₱107,903.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

  
Signature over Printed Name of Supplier

Dec 4, 2023  
Date

Funds Available:	ORs/BURS No.: <u>62-0110101-2023-11-1897</u> Amount: <u>₱ 665,449.20</u>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	BUILTRADE CONSTRUCTION SUPPLIES	P.O. No.	23 - 11 - 0427
Address:	170 Katipunan Avenue, Blue Ridge A. Quezon City	Date:	November 24, 2023
TIN :	912-681-120-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>	Balance Forwarded		₱107,903.00
7	pcs	<b>Wood Lumber</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 2 x 2" x 12' * Actual Size: 1 1/2 x 1 1/2" x 12'	50	₱580.50	₱29,025.00
8	pcs	<b>Wood Lumber - UNBRANDED</b> * Kiln Dried * S4S (Smooth on 4 Sides) * Specie: Tanguile * Nominal Size: 2 x 3" x 12' * Actual Size: 1 1/2 x 2 1/2" x 12'	50	₱870.00	₱43,500.00
9	kg	<b>Concrete Nail - UNBRANDED</b> *Size: 1 inch	5	₱81.00	₱405.00
10	pcs	<b>Black Screw for Metal - UNBRANDED</b> * Measurement: 1" height x 3.5mmø * Bugle Head	1000	₱0.90	₱900.00


(Total Amount in Words) ₱181,733.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

  
Signature over Printed Name of Supplier

Dec. 4, 2023  
Date

Funds Available:	ORIS/BURS No.: 02-010101-2023-11-1897 Amount: ₱ 665,419.80
<b>ARGEA LINN P. PALABRICA</b> Accountant III	





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>BUILTRADE CONSTRUCTION SUPPLIES</b>	P.O. No. <b>23 - 11 - 0427</b>
Address: <b>170 Katipunan Avenue, Blue Ridge A. Quezon City</b>	Date: <b>November 24, 2023</b>
TIN : <b>912-681-120-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>			
		* Self-Drilling Tip * Philips Drive (+)			
11	pcs	<b>Black Screw for Metal - UNBRANDED</b> * Measurement: 1 1/2" height x 3.5mmø * Bugle Head * Self-Drilling Tip * Philips Drive (+)	1000	₱1.20	₱1,200.00
12	pcs	<b>Black Screw for Metal - UNBRANDED</b> * Measurement: 2" height x 3.5mmø * Bugle Head * Self-Drilling Tip * Philips Drive (+)	1000	₱1.35	₱1,350.00
13	pcs	<b>Black Screw for Wood - UNBRANDED</b> * Measurement: 1" height x 3.5mmø * Bugle Head * Self-Drilling Tip * Philips Drive (+)	1000	₱0.75	₱750.00
Page 4 of 7					

(Total Amount in Words)	<b>₱185,033.00</b>
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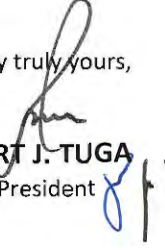
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier

Dec 4, 2024  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available:	ORS/BURS No.: <u>02-0110101-2023-11-1897</u> Amount: <u>₱ 605,419.80</u>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	

mjd2023



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>BUILTRADE CONSTRUCTION SUPPLIES</b>	P.O. No.	<b>23 - 11 - 0427</b>
Address:	<b>170 Katipunan Avenue, Blue Ridge A. Quezon City</b>	Date:	<b>November 24, 2023</b>
TIN :	<b>912-681-120-000</b>	Mode of Procurement:	<b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 30 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>	Balance Forwarded		<b>₱185,033.00</b>
14	pcs	<b>Black Screw for Wood - UNBRANDED</b> * Measurement: 1 1/2" height x 3.5mmø * Bugle Head * Self-Drilling Tip * Philips Drive (+)	1000	₱1.05	₱1,050.00
15	pcs	<b>Black Screw for Wood - UNBRANDED</b> * Measurement: 2" height x 3.5mmø * Bugle Head * Self-Drilling Tip * Philips Drive (+)	1000	₱1.35	₱1,350.00
16	pcs	<b>Cable Tie - UNBRANDED</b> * Material: Nylon * Size: 10" in length * Color: White	100	₱222.00	₱22,200.00

(Total Amount in Words) **₱209,633.00**

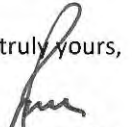
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**ARIANA G. SUCAO**  
Signature over Printed Name of Supplier

Dec 4, 2023  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available:	<b>ARGEALIN R. PALABRICA</b> Accountant III	ORS/BURS No.: <u>02-010101-2023-10-1899</u> Amount: <u>₱665,419.80</u>
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>BUILTRADE CONSTRUCTION SUPPLIES</b>	P.O. No. <b>23 - 11 - 0427</b>
Address: <b>170 Katipunan Avenue, Blue Ridge A. Quezon City</b>	Date: <b>November 24, 2023</b>
TIN : <b>912-681-120-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:


Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>	Balance Forwarded		₱209,633.00
17	pcs	<b>PVC Cement Solvent</b> <b>Offered: NELTEX</b> * 400cc	50	₱315.00	₱15,750.00
18	pcs	<b>Teflon Tape (Unbranded)</b> * Size: 3/4" width * Length: 10m	100	₱12.90	₱1,290.00
19	pcs	<b>3-Way Angle Valve (Unbranded)</b> * Material: Stainless Steel * Sizes: 1/2"ø	20	₱225.00	₱4,500.00
			<b>Subtotal (Lot 2)</b>		<b>₱231,173.00</b>

Page 6 of 7

(Total Amount in Words)	₱231,173.00
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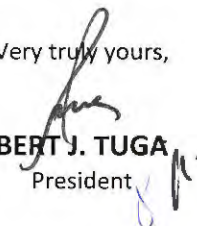
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.


Conforme:

  
Signature over Printed Name of Supplier

Dec 4, 2023  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available:	ORS/BURS No.: <u>02-0110101-2023-11-1897</u> Amount: <u>₱605,419.80</u>
 <b>ARGEA LINAY P. PALABRICA</b> Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	BUILTRADE CONSTRUCTION SUPPLIES	P.O. No.	23 - 11 - 0427
Address:	170 Katipunan Avenue, Blue Ridge A. Quezon City	Date:	November 24, 2023
TIN :	912-681-120-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply and Delivery of Various Supplies and Materials for the Repair and Maintenance of the University's Facilities and Equipment</u></b>			
		<b><u>LOT 4 - PAINTING</u></b>			
1	pcs	<b>Flat Latex Paint - DAVIES</b> * Color: White * Size: 4L (1 gal.) * Water-based Paint	100	P858.40	P85,840.00
2	pcs	<b>Semi-Gloss Latex - DAVIES</b> * Odorless * Color: White * Size: 4L (1 gal.) * Water-based Paint	200	P984.20	P196,840.00
3	pcs	<b>Flat Wall Enamel Paint - DAVIES</b> * Color: White * Size: 16L	10	P4,101.08	P41,010.80
4	pcs	<b>Quick Drying Enamel Paint - DAVIES</b> * Color: White * Size: 4L (1 gal.)	100	P1,105.56	P110,556.00
			<b>Subtotal (Lot 4)</b>		<b>P434,246.80</b>

(Total Amount in Words) SIX HUNDRED SIXTY FIVE THOUSAND FOUR HUNDRED NINETEEN PESOS AND 80/100 ONLY P665,419.80

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier

ARIAN C. JUGADO

Dec 4, 2023

Date

Very truly yours,

BERT J. TUGA

President

Funds Available:	ARGEA LINN P. PALABRICA Accountant III	ORS/BURS No.: 62-0110101-2023-11-1894 Amount: P665,419.80
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**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Ms. LORELIE JOSEPHINE H. PERILLA**  
**Microdata Systems and Management, Inc.**  
Crystal Building 199 C.M. Recto Corner  
A. Mabini St., Brgy. Addition Hills,  
San Juan City  
8705-7777 / 09178045625  
[joie@microdata.com.ph](mailto:joie@microdata.com.ph)

Dear Ms. Perilla:

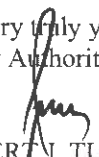
We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery and Installation of Audio Equipment for Various University Venues** is hereby awarded to **MICRODATA SYSTEMS AND MANAGEMENT, INC.** pursuant of BAC Resolution No. **GD 2023-10-131-C** dated **December 7, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **MICRODATA SYSTEMS AND MANAGEMENT, INC.** in the total amount of **Three Million Seven Hundred Sixty-Five Thousand Pesos Only (₱ 3,765,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:


- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank; provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (₱ 188,250.00); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 1,129,500.00); or
- c. Performance Securing Declaration (PSD) as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
BERT J. TUGA  
President

Conforme:

  
LORELIE JOSEPHINE H. PERILLA  
Name of Authorized Representative

DEC. 19, 2023  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder  
and Recommending Approval for Award**

**Resolution No. GD 2023-10-131-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery and Installation of Audio Equipment for Various University Venues** on November 10 – 29, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Three Million Seven Hundred Ninety-Eight Thousand Eight Hundred Pesos and 00/100 only (₱ 3,798,800.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **17 November 2023 (Friday)** virtually via Zoom App, wherein two (2) interested suppliers attended the Conference, namely:

1. **Microdata Systems and Management, Inc.** represented by Ms. Joie Perilla (joie@microdata.com.ph)
2. **Avid Sales Corporation** represented by Mss. Camille Dee (camille.dee@avid.com.ph)

**WHEREAS**, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids on 29 November 2023 (Wednesday)** at 10:00 AM held at 2<sup>nd</sup> Floor Library Multimedia Room, Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **Microdata Systems and Management, Inc.**;

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
One (1) Lot Audio Equipment for Various University Venues (ABC ₱ 3,798,800.00)	Microdata Systems and Management, Inc.	₱ 3,765,000.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Microdata Systems and Management, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Microdata Systems and Management, Inc.** financial bid amounting to **Three Million Seven Hundred Sixty-Five Thousand Pesos and 00/100 only (₱ 3,765,000.00)** with an equivalent of 0.89% (₱ 33,800.00) variance from the ABC was then Ranked No. 1, subject to further evaluation to ascertain, verify, and validate the submitted bid;

**WHEREAS**, on December 6, 2023, the BAC, TWG, Technical Working Group (TWG), and BAC Secretariat conducted post-qualification assessment on the submitted bud by **Microdata Systems and Management, Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post-qualification after having verified, validated and ascertained its bid documents;

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:





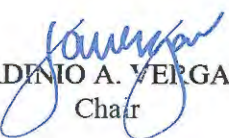
**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

- a. That **MICRODATA SYSTEMS AND MANAGEMENT, INC.** be declared as the Single Calculated Bid in consideration of its total amount of **Three Million Seven Hundred Sixty-Five Thousand Pesos and 00/100 only (₱ 3,765,000.00) only;**
- b. That the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **MICRODATA SYSTEMS AND MANAGEMENT, INC.** to verify, validate and ascertain its bid documents;
- c. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **MICRODATA SYSTEM AND MANAGEMENT, INC.**, upon adoption and approval of this BAC Resolution.

**RESOLVED**, during the Bid Opening and deliberation Meeting held on December 13, 2023, at 2F Library Multimedia Room, Dagot Hall.

**BIDS AND AWARDS COMMITTEE**

**Resolution No. GD 2023-10-131-C**

  
**LORDINIO A. VERGARA**  
Chair


  
**FLORENCE A. ALLEJOS**  
Member

  
**JENNY C. MALITAO**  
Vice-Chair

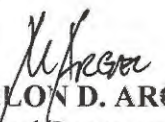
  
**JENITH M. DE GUZMAN**  
Member


  
**JAMES V. BAILON**  
Member

  
**LEONORA P. NARAG**  
Member

  
**HELENA A. ADVINCULA**  
Member

  
**JOHN P. NATIVIDAD**  
End User

  
**MARLON D. ARGEL**  
Technical Representative

**APPROVED**  
  
**BERT J. TUGA, PhD**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE TO PROCEED

December 20, 2023

**Ms. LORELIE JOSEPHINE H. PERILLA**  
**Microdata Systems and Management, Inc.**  
Crystal Building 199 C.M. Recto Corner  
A. Mabini St., Brgy. Addition Hills,  
San Juan City  
8705-7777 / 09178045625  
[joie@microdata.com.ph](mailto:joie@microdata.com.ph)


Dear Ms. Perilla:

The attached Purchase Order having been approved, notice is hereby given to **MICRODATA SYSTEMS AND MANAGEMENT, INC.** that work may commence for the project: **Supply, Delivery and Installation of Audio Equipment for Various University Venues** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 12/27/23

Name of the Representative of the Bidder: **JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions

Authorized Signature:  **0917-8045625**



PURCHASE ORDER

Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery: _____	Payment Term: _____

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
	LOT	<b><u>Supply, Delivery, and Installation of Audio Equipment for Various University Venues</u></b>	<b>1</b>		<b>3,765,000.00</b>
		<b>LOUD SPEAKER SYSTEM</b>			
		<b>Brand: AUDAC</b>			
		<b>Model: Festa 8.4 E/B+ EP502 Black</b>			
		Fixed installations requiring a high-quality and full-range sound without an additional bass cabinet.	1 set	₱190,000.00	
		With Class-D power amplifier, this system, using four loudspeakers, can cover areas of around 200 m² with high-quality, full-range sound with optimal acoustical performance and protection.			
		Elegant and compact design			
		High-efficiency Class-D amplifier			
		Full range speaker 8"			
		Vertical and horizontal mounting (rotatable logo)			
		Zinc alloy mounting bracket included			
		Terminal block connection			
		1" Dome tweeter			
		8" Low frequency loudspeaker			
		20° incline angle			
		Speaker type 2-way			
		Peak power handling 480 W			
		Program power handling 240 W			
		Page 1 of 17			

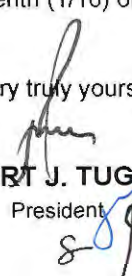
(Total Amount in Words)	
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature over Printed Name of Supplier  
12/27/23  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: <b>3,765,000.00</b>	ORS/BURS No.: <b>06-05206441-2023-12-1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b></p> <p>RMS/AES power handling 120 W Impedance 8 Ω Sensitivity (1W/1m)89 dB Sound Pressure (Max. W/1m)110 dB Frequency Response (± 3 dB) 60 Hz - 18 kHz Frequency Range (-10 dB) 50 Hz - 20 kHz Crossover Frequency 2.5 kHz Type Passive built-in Dispersion Horizontal120° Vertical120° Connectors 4-pin Euro Terminal Block (Pitch - 5.08 mm) Drivers1" Dome tweeter 8" MF / LF Woofer Dimensions 250 x 380 x 262 mm (W x H x D) Operating temperature -20 °C ~ 60 °C Construction Medium Density Fibreboard with structured coating. Front finish steel grill</p> <p><b>Mounting and handling 2-way Revolving mounting bracket</b></p> <ul style="list-style-type: none"><li>* Dual-channel Class-D amplifier 2 x 500W</li><li>* Lightweight class-D amplifier</li><li>* Advanced protection circuit</li><li>* Speak on compatible &amp; terminal block output connections</li><li>* Energy-star certified</li><li>* Standby energy saving mode</li><li>* Convection cooled</li></ul> <p>Page 2 of 17</p>			

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions

Signature over Printed Name of Supplier

12/27/23  
Date

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: <u>3,765.00</u>	ORS/BURS No.: <u>06 - 05206411 - 2023 - 12 - 144</u>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <u>3,765,000.00</u>



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p>XLR input connections with crossover operation mode switch</p> <p><b>RMS/AES power handling</b></p> <p>* @ <math>\Omega</math> Stereo 2 x 500 W</p> <p>* @ 8 <math>\Omega</math> Stereo 2 x 300 W</p> <p>* @ 8 <math>\Omega</math> Bridge 1000 W</p> <p>Frequency Response (<math>\pm</math> 3 dB) 20 Hz - 20 kHz</p> <p>Signal / Noise &gt; 90 Db</p> <p>THD+N (@ 1 kHz) &lt; 0.1%</p> <p>Crosstalk (@ 1 kHz) &gt; 70 dB</p> <p>Technology Class-D</p> <p>Power Supply Switching Mode</p> <p>Consumption 426 W</p> <p>Stand by 0.7 Watt (30 min standby time)</p> <p>Inputs Sensitivity 0 dB (1V RMS)</p> <p>Inputs Impedance 12 k<math>\Omega</math> balanced</p> <p>Inputs Connector XLR female with Male Link through</p> <p>Protection DC short circuit, overheating, overload, signal limiting</p> <p>Cooling Convection cooled</p> <p>Operating temperature 0° ~ 40° @ 95% Humidity</p> <p>Outputs connector Speak on compatible &amp; 2-pin Euro</p> <p>Terminal Block (5.08mm)</p> <p>Dimensions 482 x 44 x 330 mm (W x H x D)</p> <p>Mounting 19"</p> <p>Page 3 of 17</p>			

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature over Printed Name of Supplier  
12/27/23  
Date

Very truly yours,  
**BERT J. TUGA**  
President

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06-05206441-2023-12-1444</b>
<b>ARGEALINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b></p> <p>Unit height 1 HE Construction steel Color black With declaration of conformity</p> <p><b>12FX 12-CHANNEL ANALOG MIXER WITH EFFECTS</b> <b>Brand: Allen &amp; Heath ZED-10FX</b> <b>Model: E-1-723</b> 12FX squeezes in 4 auxiliary channels and swept semi-parametric EQ on top of the already impressive feature set including configurable USB audio in/out makes it easy to capture stereo recordings. High pass filter Stereo imaging control on every channel 3-band EQ with swept mid 4 auxiliary sends (2 pre, 2 post) Global 48V phantom power 3 dual stereo inputs with 2-band EQ Peak and signal indication on every channel Configurable USB stereo audio in/out Master level controls on all outputs Easy to use layout -- all connections and controls on top surface Cakewalk sonar le bundled with mixer channel mute switches</p> <p>Page 4 of 17</p>	3 units	P195,000.00	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature:   
Date: **12/27/23**

Signature of Supplier

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06-05206441-2023-12-1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:


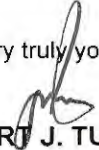
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b>  stereo return 2-track return Advanced monitoring facilities 1/4" and 3.5mm headphones outputs stereo record out alternative stereo out mono sum of LR output main LR 2-bar LR meters master controls for aux 1 & 2 19" rack mounting kit available for ZED-12FX and ZED-14 6 Mic/line inputs 4 Auxiliary sends 3 Band eq with sweep mids. Mono/stereo function on auxes 1&2 100MM Professional faders USB I/O with Sonar software  <b>UHF PLL PERSONAL WIDEBAND TRUE DIVERSITY SYSTEM</b> <b>Brand: CLOCKAUDIO</b> <b>Model: CW7000</b> System comprises of 1 hand held radio microphone and 1 receiver PLL synthesized technology allows up to 1441 selectable frequencies  <i>Page 5 of 17</i>	9 sets	₱585,000.00	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	 <b>JOIE H. PERILLA</b> <i>Sales Manager, i-Learn Solutions</i> Signature over Printed Name of Supplier <b>0917-8045625</b> <u>12/27/23</u> Date	Very truly yours,  <b>BERT J. TUGA</b> President
-----------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------

Funds Available: <b>3765,000</b> <b>ARGEA LINN F. PALABRICA</b> Accountant III	ORS/BURS No.: <b>06- 0520 6441-2323- 12-1144</b> Amount: <b>3765,000.00</b>
--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment for Various University Venues</u></b></p> <p>6 groups, maximum 23 channels in one group. The true diversity reception with 2 independent RF receivers ensures stable reception. Adjustable Pilot tone squelch control can effectively reduce the noise. Fitted with S.A.W. filter to resist interference. Fitted with squelch circuitry and Mute function. Rugged metal housing Balanced output via 3 Pin XLR or 6.3mm (1/4") Jack socket Anti-interference design for computer compatibility Transmission power selectable between 10 and 50mW (depends on local regulation).</p> <p><b>PORTABLE UHF MULTI-CHANNEL TRANSMITTER RECEIVER SYSTEM</b> <b>Brand: CLOCKAUDIO</b> <b>Model: CW7001/H20</b> System comprises of 1 x CW 7001 Black pack potable transmitter, 1 x CW 7000R Receiver. PLL synthesized technology allows up to 1441 selectable frequencies 6 groups, maximum 23 channels in one group. The true diversity reception with 2 independent RF receivers ensures stable reception.</p> <p>Page 6 of 17</p>	4 sets	₱352,800.00	

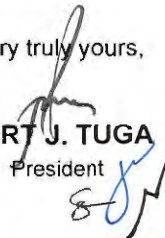
(Total Amount in Words)	
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature 091718045625 of Supplier  
Date 12/27/23

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: 375,000

  
**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.:  
Amount:

06 - 05206441 - 2023 - 12 - 1444  
3,765,000.00





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p>Fitted with S.A.W. filter to resist interference. Fitted with squelch circuitry and Mute function. Rugged metal housing Balanced output via 3 Pin XLR or 6.3mm (1/4") Jack socket Anti-interference design for computer compatibility</p> <p><b>HAND HELD DYNAMIC SUPER CARDIOID MICROPHONE</b></p> <p><b>Brand: CLOCKAUDIO</b></p> <p><b>Model: D700</b></p> <p>Rugged die cast metal construction Super Cardioid Polar Pattern Wide smooth frequency response Neodymium magnet Balanced output Inbuilt shock mount for superior low handling noise Termination 3 pin male XLR Supplied with swivel stand adaptor Length ø54 x 178 mm Finish: Satin Black Dynamic microphone has a cardioid polar pattern. Construction is of robust durable die cast metal. Optimised for high quality speech and musical instrument reproduction. Internal shock mount design ensures superior low handling noise.</p> <p>Page 7 of 17</p>	12 units	₱132,000.00	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature over Printed Name of Supplier  
**0917-8043625**  
Date **12/27/23**

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06-0520 6441-2023-12-1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier: MICRODATA SYSTEMS AND MANAGEMENT INC.	P.O No.: 23 - 12 - 0476
Address: #199 C.M. Recto St. Barangay Addition Hills, San Juan City	Date: December 20, 2023
TIN : 000-132-948-000	Mode of Procurement: Competitive Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PNU Manila - Supply and Property Unit	Delivery Term: within 60-90 calendar days
Date of Delivery:	Payment Term:

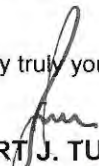
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment for Various University Venues</u></b></p> <p>Termination is 3 pin male XLR. Neodimium magnet ensures high sensitivity of -74dB +/- 3dB @1KHz (odB = 1V/Pa). Frequency response 50Hz - 18KHz. Impedance 300 Ohms balanced. Supplied with swivel stand adaptor having a 5/8th / 3/8th female thread.</p> <p><b>4-PERSON FULL DUPLEX WIRELESS INTERCOM SYSTEM WITH SINGLE-EAR HEADSETS</b> <b>Brand: SARAMONIC</b> <b>Model: Witalk WT4S</b> Full-duplex wireless headset intercom system with single-ear technology for professional production teams. Ideal for film, TV, stage, photo shoots, and sports, it offers hands-free communication and allows for movement with its wireless design. It boasts a range of 400m with extended battery life, all stored in a rugged, water-tight case. Hands-free operation Easy for teamwork Lever-type switch design 1.9GHz wireless frequency range Ultra long distance transmission <b>Single-Ear Master Headset(WiTalk SMH)</b></p> <p>Page 8 of 17</p>	1 set	P42,500.00	

(Total Amount in Words)

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Conforme:

  
**JOIE H. PERILLA**  
Sales Manager - Learn Solutions  
Signature over Printed Name of Supplier  
0917-8045625  
Date 12/27/23

Very truly yours,  
  
**BERT J. TUGA**  
President

Funds Available: 3,765.00 <b>ARGEA LINN P. PALABRICA</b> Accountant III	ORS/BURS No.: Amount:
-------------------------------------------------------------------------------	--------------------------



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b>			
		* Duplex mode : Full-Duplex(FDX) * Modulation : GFSK * Carrier Frequencies : 1787MHz – 1928MHz * Microphone Type : Condenser Microphone * Operating Range : Up to 1312ft (400m) without obstacles			
		<b>2 XLR MIC W/O BACK BOX</b> <b>Brand: ABTUS IFP 703C2</b> Metal Material Interface Panel with 2 XRL Mic w/o back box	3 units	₱7,200.00	
		<b>DULL RANGE SPEAKER 8" BLACK VERSION</b> <b>Brand: AUDAC</b> <b>Model: XENO 08/B</b> Vertical and horizontal mounting (rotatable logo) Zinc alloy mounting bracket included Terminal block connection 1" Dome tweeter 8" Low frequency loudspeaker 20° incline angle Speaker type 2-way Peak power handling 480 W Program power handling 240 W RMS/AES power handling 120 W Impedance 8 Ω Sensitivity (1W/1m) 89 dB	12 units	₱480,000.00	
		Page 9 of 17			

(Total Amount in Words)

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Conforme:

Very truly yours,

**BERT J. TUGA**  
President

**JOIE H. PERILLA**

Sales Manager, i-Learn Solutions

Signature over Printed Name of Supplier

0917-8045625

Date

Funds Available:

**ARGEA LINN PALABRICA**  
Accountant III

ORS/BURS No.:

Amount:

06-05206441-2023-12-1444  
3,765,000.00





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p>Sound Pressure (Max. W/1m) 110 dB Frequency Response (± 3 dB) 60 Hz - 18 kHz Frequency Range (-10 dB) 50 Hz - 20 kHz Crossover Frequency 2.5 kHz Crossover Type Passive built-in Dispersion Horizontal 120° Dispersion Vertical 120° Connectors 4-pin Euro Terminal Block (Pitch - 5.08 mm) Divers 1" Dome tweeter; 8" MF / LF Woofer Dimensions 250 x 380 x 262 mm (W x H x D) Operating temperature -20 °C ~ 60 °C Construction Medium Density Fibreboard with structured coating Front finish Steel grill Mounting &amp; handling Black</p> <p><b>DUAL CHANNEL CLASS D AMPLIFIER 2 X 500W</b> <b>Brand: AUDAC</b> <b>Model: EPA 502</b> Lightweight class-D amplifier Advanced protection circuit Speak on compatible &amp; terminal block output connections Energy-star certified Standby energy saving mode Convection cooled</p> <p>Page 10 of 17</p>	2 units	₱110,000.000	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature over Printed Name of Supplier  
**0917-8045623**  
Date **12/27/23**

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06-0820641-2023-12-1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b></p> <p>XLR input connections with crossover operation mode switch RMS/AES power handling * @ 4 Ω Stereo 2 x 500 W * @ 8 Ω Stereo 2 x 300 W * @ 8 Ω Bridge 1000 W Frequency Response (± 3 dB) 20 Hz - 20 kHz Signal / Noise &gt; 90 Db THD+N (@ 1 kHz) &lt; 0.1% Crosstalk (@ 1 kHz) &gt; 70 dB Technology Class-D Power Supply Switching Mode Consumption 426 W Stand by 0.7 Watt (30 min standby time) Inputs Sensitivity 0 dB (1V RMS) Inputs Impedance 12 kΩ balanced Inputs Connector XLR female with Male Link through Protection DC short circuit, overheating, overload, signal limiting Cooling Convection cooled Operating temperature 0° ~ 40° @ 95% Humidity Outputs connector Speak on compatible &amp; 2-pin Euro Terminal Block (5.08 mm) Dimensions 482 x 44 x 330 mm (W x H x D) Mounting 19"</p> <p>Page 11 of 17</p>			

(Total Amount in Words)	
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Conforme:

  
**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature **091708045625** of Supplier  
**12/27/23**  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: **3,765,000**  
**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.: **06 - 05206441 - 2023 - 12 - 1444**  
Amount: **3,765,000.00**



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:



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Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p>Unit height 1 HE Construction steel Color black With declaration of conformity</p> <p><b>LOUDSPEAKER SYSTEM</b> <b>Brand: AUDAC</b> <b>Model: Festa 6.4 E/B - ATEO6</b> Wall speaker with CleverMount™ 6" * Vertical and horizontal mounting (rotatable logo) * 1" Dome tweeter * 6" Low frequency loudspeaker * 100V and low impedance connection possibility * Stunning designed and elegant looking ABS enclosure * Patented CleverMount™ mounting system * Multi-tapping 70V / 100V line transformer * Dual-channel Class-D amplifier 2 x 250W * Lightweight class-D amplifier * Advanced protection circuit * Speak on compatible &amp; terminal block output connections * Energy-star certified * Standby energy saving mode * Convection cooled * XLR input connections with crossover operation mode switch</p> <p>Page 12 of 17</p>	1 unit	₱130,000.00	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	<p> <b>JOIE H. PERILLA</b> Sales Manager, i-Learn Solutions Signature <b>0917-8045625</b> of Supplier <b>12/27/23</b> Date</p>	<p>Very truly yours,</p> <p> <b>BERT J. TUGA</b> President</p>
-----------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06 - 0520 6441 - 2023 - 12 * 1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery: _____	Payment Term: _____

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p><b>MULTIPURPOSE MIXER WITH FX FOR LIVE SOUND AND RECORDING</b></p> <p><b>Brand: Allen &amp; Heath ZED-10FX 10-Channel Mixer with Audio Interface and Effects E-1-722</b></p> <ul style="list-style-type: none"><li>* 4 mic/line inputs, 2 with Class A FET high impedance inputs</li><li>* Neutrikmic XLR</li><li>* Neutrik 1/4 inch jacks</li><li>* 3 band EQ with MusiQ</li><li>* 1 pre-fade Aux send</li><li>* 1 FX send</li><li>* Sound image pan</li><li>* Illuminated PFL indicator</li><li>* Stereo returns &amp; playback</li><li>* All inputs with level control</li><li>* 12 bar meters</li><li>* Responsive 3-band, swept mid EQ with MusiQ</li><li>* 2 stereo sources with MP3 player compatibility</li><li>* Separate 2-track record outputs</li><li>* Stereo playback input for 2-track replay</li><li>* XLR main stereo outputs with inserts</li><li>* Comprehensive monitoring</li><li>* Configurable USB stereo audio in/out</li><li>* Stereo monitor outs</li></ul> <p>Page 13 of 17</p>	1 unit	₱36,800.00	

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
Signature over Printed Name of Supplier  
0917-8043625  
12/27/23  
Date

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: <b>3,765,000</b>	ORS/BURS No.: <b>06-05206441 - 2023-12-1444</b>
<b>ARGEA LINN R. RALABRICA</b> Accountant III	Amount: <b>3,765,000.00</b>





TIN : 000-132-948-000

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Payment Term:

тбач 2023



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

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Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Installation of Audio Equipment</u></b> <b><u>for Various University Venues</u></b>			
		Boom Length: 80cm <b>MULTI-POSITION PA SYSTEM</b> Brand: BOSE Model: S1 Pro *4 aiming positions : monitor, speaker stand position, tilt-back and elevated *Three channel mixer with volume controls and signal indicators *Full-featured channels 1 & 2, combo XLR-1/4" inputs, dedicated tone match, tone controls and reverb *Bluetooth streaming or 1/8" (3.5 mm) input on channel 3 *Dedicated line output for expansion to other systems *Power switch with quick charge option for rechargeable battery *Dimensions/weight 330 x 241 x 286 mm (13"H x 9.5"W x 11.2"D) 6.8 kg (15 lbs) Inputs/outputs *Two combo XLR-1/4" inputs   3.5 mm (1/8") Aux or Bluetooth input 1/4" TRS line output *Onboard Sensors Provide Optimal Sound *Independent EQ and Reverb on Channel 1&2 *Includes Lithium-Ion Battery Pack	10 units	P480,000.00	
		<b>INSTALLATION, TESTING, CABLING FOR 10-15 DAYS</b> <b>INCLUSIVE OF 4 TECHNICAL ENGINEERS; WITH</b> <b>MATERIALS AND CONTINGENCY</b>	1 lot	P910,992.00	
Page 15 of 17					

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
**0917-8045625**  
Signature over Printed Name of Supplier

12/27/23  
Date

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: <u>3,765,000.00</u>	ORS/BURS No.: <u>06-09206441-2023-12-1444</u>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <u>3,765,000.00</u>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

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Date of Delivery: _____	Payment Term: _____

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment</u></b></p> <p><b><u>for Various University Venues</u></b></p> <p><b>TRAINING FOR 4 PERSONS AND DOCUMENTATION</b></p> <p><b>PROGRAMMING FEE</b></p> <p><b>Requirements and submittal of documents during bid opening</b> Bidder must have at least two (2) certified technology specialist   accredited by an international third-party audio-visual organization. Submit certification of technology specialist during bid opening</p> <p>Bidder must submit authorize distributor's and/or manufacturer certificate during bid opening.</p> <p>Bidder must submit design and layout of the audio system for all the various venues during the bid opening.</p> <p>Bidder must submit BOSH and COSH certified during bid opening.</p> <p>The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Services (FMSS).</p> <p><b>A certificate of site inspection</b> will be given to the bidder/s who procured the bid documents.</p> <p>Page 16 of 17</p>			

(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:	<p>Very truly yours,</p> <p><b>BERT J. TUGA</b> President</p>
<p><b>JOIE H. PERILLA</b> Sales Manager, i-Learn Solutions</p> <p>Signature <u>0017-8045625</u> Date <u>12/27/23</u></p>	

Funds Available: <u>3,765.00</u>	ORS/BURS No.: <u>06-05206491-2023-12-1444</u>
<p><b>ARGEA LINN P. PALABRICA</b> Accountant III</p>	Amount: <u>3,765,000.00</u>





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>MICRODATA SYSTEMS AND MANAGEMENT INC.</b>	P.O No.: <b>23 - 12 - 0476</b>
Address: <b>#199 C.M. Recto St. Barangay Addition Hills,</b>	Date: <b>December 20, 2023</b>
<b>San Juan City</b>	Mode of Procurement: <b>Competitive Public Bidding</b>
TIN : <b>000-132-948-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 60-90 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b><u>Supply, Delivery, and Installation of Audio Equipment for Various University Venues</u></b></p> <p>The bidder shall submit a technical data sheet for the technical data sheet for the product being offered, and these technical data sheets shall be part of the criteria for evaluation.</p> <p>Delivery period and installation: Ninety (90) calendar days</p> <p>All accessories that will incur to the installation will be shouldered by the bidder.</p> <p><b>Warranty: Bidder must submit certification of one (1) year warranty for the parts and labor during bid opening.</b> --- nothing follows ---</p>			

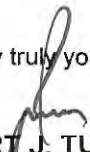
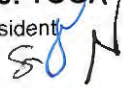
(Total Amount in Words) **THREE MILLION SEVEN HUNDRED SIXTY-FIVE THOUSAND PESOS ONLY** **₱3,765,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**JOIE H. PERILLA**  
Sales Manager, i-Learn Solutions  
**0917-8045625**  
Signature over Printed Name of Supplier  
  
Date

Very truly yours,

  
**BERT J. TUGA**  
President  


Funds Available: <b>3,765,000.00</b>	ORS/BURS No.: <b>0520-05201641-2023-12-1444</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	Amount: <b>₱3,765,000.00</b>



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE OF AWARD**

July 14, 2023

**Ms. AMY P. SABLAON**  
**Libtech Source Philippines Inc.**  
Unit 3 2<sup>nd</sup> Flr., Eight One Eight Building,  
Arnaiz Rd., San Lorenzo Village, Makati City  
8808-1191 / 0927-0169669  
[amy.s@igroupnet.com](mailto:amy.s@igroupnet.com)

Dear Ms. Sablaon:

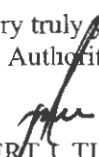
We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism Software for the Publication Office** is hereby awarded to **LIBTECH SOURCE PHILIPPINES INC.** pursuant of BAC Resolution No. **GD 2023-06-063** dated **July 14, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **LIBTECH SOURCE PHILIPPINES INC.** in the total amount of **One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four Pesos and 00/100 only (Php 1,284,864.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

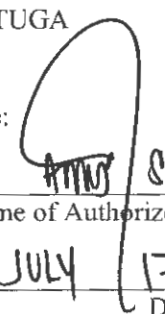
- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to ten percent (5%) of the total contract price (**₱ 64,243.20**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 385,459.20**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative

JULY 17, 2023  
\_\_\_\_\_  
Date





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**BAC Resolution Declaring the Single Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD 2023-06-063**

WHEREAS, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism for the Publication Office** on June 21 – July 10, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **One Million Five Hundred Thousand Pesos and 00/100 only (₱ 1,500,00.00)** for the contract;

WHEREAS, a **Pre-Bid Conference** was conducted last **27 June 2023 (Tuesday)** virtually via Zoom application, wherein four (4) interested bidders attended the Conference, namely:

1. MyBusybee, Inc. represented by MS. Symone Wong with email address of [symone@mybusybee.net](mailto:symone@mybusybee.net);
2. Pronet Systems Integrated Network Solution, Inc. represented by Ms. Marjorie Goyal with email address of [m.goyal@pronet.com.ph](mailto:m.goyal@pronet.com.ph);
3. Libtech Source Philippines Inc. represented by Ms. Amy Sablaon and Ms. Rose Crisostomo with email address of [amy.s@igroupnet.com](mailto:amy.s@igroupnet.com); and
4. Strike Plagiarism represented by Mr. Jeffrey Merana and Mr. Akmaral Kuzhiyeva with email address of [akuzhiyeva@strikeplagiarism.com](mailto:akuzhiyeva@strikeplagiarism.com)

WHEREAS, the Regular Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **10 July 2023 (Monday)** at 10:00 AM held at the Pedro T. Orata Hall (Room 103);

WHEREAS, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **Libtech Source Philippines Inc.** represented by Ms. Amy Sablaon and Ms. Rose Crisostomo with email address of [amy.s@igroupnet.com](mailto:amy.s@igroupnet.com)

WHEREAS, the summary of the Opening of Bids are as follows:

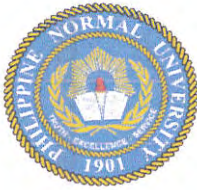
LOT	Bidder/s	Bid Amount	Remarks
1 Lot – Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism Software for the Publication Office (ABC: Php 1,500,000.00)	Libtech Source Philippines, Inc.	1,284,864.00	Eligible

WHEREAS, during the detailed Technical Evaluation conducted by the Technical Representative, **Libtech Source Philippines Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

WHEREAS, upon arithmetical computation, **Libtech Source Philippines, Inc.** Financial Bid amounting to **One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four Pesos and 00/100 only (Php 1,284,864.00)** with an equivalent of 14.37% (₱ 215,136.00) variance from the ABC was then Ranked No. 1 (lone bidder);

WHEREAS, on **13 July 2023 (Thursday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Libtech Source Philippines Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;





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Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Libtech Source Philippines Inc.**, its bid of **One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four Pesos and 00/100 only (Php 1,284,864.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **LIBTECH SOURCE PHILIPPINES INC.** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four Pesos and 00/100 only (Php 1,284,864.00)**;
- b. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- c. That, a **Notice of Award (NOA)** be issued to **LIBTECH SOURCE PHILIPPINES INC.**, upon adoption and approval of this BAC Resolution.
- d. To recommend the foregoing for the approval of the Board of Regents of the Philippine Normal University.

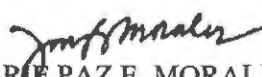
**RESOLVED**, during the Regular Meeting held on July 14, 2023, virtually via Zoom application.

**BIDS AND AWARDS COMMITTEE**  
Resolution No. GD 2023-06-063

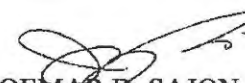
  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair

  
**MARIE PAZ E. MORALES**  
Member

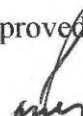
  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member / End-user

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE TO PROCEED

July 17, 2023

**Ms. AMY P. SABLAON**  
**Libtech Source Philippines Inc.**  
Unit 3 2<sup>nd</sup> Flr., Eight One Eight Building,  
Arnaiz Rd., San Lorenzo Village, Makati City  
8808-1191 / 0927-0169669  
[amy.s@igroupnet.com](mailto:amy.s@igroupnet.com)


Dear Ms. Sablaon:

The attached Contract having been approved, notice is hereby given to **LIBTECH SOURCE PHILIPPINES INC.** that work may commence for the project: **Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism Software for the Publication Office** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President *not*

I acknowledge receipt of this Notice on (date of receipt) JULY 19, 2023

Name of the Representative of the Bidder: AMY P. SABLAON

Authorized Signature:  FINANCE & ADMIN MANAGER  
LIBTECH SOURCE PHILS., INC.

*(All documents without PNU QS Stamp or Control Identifier are uncontrolled)*



PROJECT: Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism for the Publication Office

CONTRACT NO: GD 2023-06-063

CONTRACT AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

THIS CONTRACT made and entered into this JUL 19 2023 day of \_\_\_\_\_ year 2023 at Manila by and between:

The PHILIPPINE NORMAL UNIVERSITY (PNU), a National Center for Teacher Education (NCTE) institution, operating pursuant to Republic Act No. 7168, December 26, 1991, with business address at Taft Avenue, corner Ayala Boulevard, Ermita, Manila, herein represented by its President, Dr. BERT J. TUGA, and hereinafter referred to as the "PNU";

-and-

LIBTECH SOURCE PHILIPPINES INC., a private corporation duly licensed business entity existing under and by virtue of the laws of the Philippines, with office address Unit 3, 2<sup>nd</sup> Floor, Eight One Eight Building, Arnaiz Avenue, San Lorenzo Village, Makati City City herein represented by its Finance and Administrative Manager, Ms. AMY P. SABLAON, and hereinafter referred to as the "LIBTECH SOURCE PHILIPPINES INC.".

WITNESSETH

WHEREAS, the Entity invited Bids for certain goods and ancillary services, viz., Supply, Delivery and Installation of Authenticity Test/Anti-Plagiarism Software for the Publication Office (GD 2023-06-063) and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four pesos and 00/100 only (Php 1,284,864.00), hereinafter called the "CONTRACT PRICE".

WHEREAS, the Philippine Normal University is in need to procure AUTHENTICITY TEST / ANTI-PLAGIARISM SOFTWARE through Publication Office, subscribed or is interested in subscribing to the said software;

WHEREAS, the LIBTECH SOURCE PHILIPPINES INC. offered to provide TURNITIN as the Authenticity Test / Anti-Plagiarism Software and the PNU hereby accepts the offer through competitive public bidding as the lone bidder;

WHEREAS, the said software is needed to ensure original work by checking submitted papers against 17+ billion web pages, 200+ billion student papers and leading library databases and publications;

NOW, THEREFORE, for and in consideration of the foregoing premises and the mutual covenants hereinafter set forth, the parties hereby agree as follows:

I. SOFTWARE FUNCTIONALITIES (SCOPE OF WORK)

TURNITIN

1. Comprehensive Similarity Reports

2. Trusted Similarity Scores with database of more than one billion submission student submissions. 170 million articles from:





- CrossRef (69 million articles and documents from reputable publishers: Elsevier, Cambridge University, etc.
- E-references
- Publisher of over 60 electronic encyclopedias for different fields
- Emerald, ABC-CLIO, McGrawHill, Wiley etc.
- Database of 60 billion + pages of continuously updated content from publicly accessible internet
- Wikipedia

**3. Filters and Exclusions:** Allows instructors to set parameters for the Similarity Report and eliminate insignificant matches by excluding quotes, bibliography, or matches that fall under a certain word count or percentage.

#### 4. Unlimited submissions/Drafts

**5. Text Manipulations** where instructors can easily see how submissions have been deliberately manipulated with white text or replaced characters to circumvent integrity checking algorithms.

#### 6. Allow instructors to practice Formative Learning:

- Time-saving Quick Marks
- Ready-to-Use Rubrics
- Integrated Grammar Checker
- Engaging Voice Comments
- Collaborative Peer Marking and Grade Mark

#### 7. Has a built-in crawler. Some of the key features of the crawler:

- Broad, scalable, focused crawl of the web
- Prioritized (re)crawl, and how often
- Persistent, query-friendly store of the crawl frontier allowing for useful, rapid reporting
- Smart crawling that will avoid junk (ex. Crawler traps)
- Crawling non-HTML file types
- Support for selectively crawling JavaScript-based sites.

#### 8. Generates a Similarity Report that includes multiple views and features:

- Reports are available within minutes after submission (usually far less than two minutes)
- Direct-source comparisons of matched words to matched documents (highlighted with or without color coding) numbered and aligned side-by-side.
- Pattern-recognition matching of both word-for-word and paraphrased text
- Ability to exclude matching material within quotes, within the bibliography, or any individual source
- Ability to view all underlying matched words that have been obscured by overlapping matches.
- Accepts submission formats that generate a Similarity Report include: Microsoft Word®, Microsoft PowerPoint®, WordPerfect®, OpenOffice, Rich Text Format (RTF), HTML, Text, Postscript, PDF, Hangul, Excel, and Google Docs
- Capability to accept any file type as an assignment submission.
- Option to refresh a Similarity Report to include matches to any updated content in the database.
- Automatic exclusion of submissions by the same author to the same assignment.
- Ability to translate content from non-English languages into English in order to compare to our English language database.
- Languages include Albanian, Arabic, Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, Estonian, Farsi, Finnish, French, German, Greek, Hausa, Hebrew, Hungarian, Indonesian, Italian,

WITNESS

AMY P. SABLALON  
FINANCE and ADMINISTRATIVE MANAGER

JOSE M. OCAMPO JR.  
VPFA

BERT J. TUGA  
PRESIDENT



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

Japanese, Korean, Latvian, Lithuanian, Malay, Maltese, Norwegian Bokmal, Norwegian Nyorsk, Persian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Somali, Spanish, Turkish, Swahili, Swedish, That, Turkish, Ukranian, and Urdu.

9. Should be accessible via a web-based interface and is hosted in secure data centers.

10. Should be integrated with the existing LMS Moodle platform of the University.

11. Data are stored and encrypted in secure data centers, and on a third-party cloud platform that has certification for compliance with ISO/IEC 27001, 27017, 27018, and ISO/IEC 9001.

12. One (1) Refresher Training Session Package via Zoom will consist of the following:

- Classroom Workflow Training (60-90 minutes including Q&A) inclusive of maximum participants of 500 instructors.
- Any additional participants will be subject to additional charge.
- Session will be recorded and a copy of the recording will be shared with institution.
- Recordings are available in our cloud storage for up to 12 months. institution has option to download them for copy purposes.

13. Formative Options

- Time-saving Quick Marks
- Ready-to-Use Rubrics
- ETS e-rater® Grammar Check
- Engaging Voice Comments
- Collaborative PeerMark

14. See Code Similarity

- access to compare student code files to each other to detect similarity between them.
- Instructors can upload template of stub code to exclude that from the report for more refined results.

15. Contract Cheating Risk Assessment Dashboard

With a probability algorithm to help administrators to understand the potential scale and risk of contract cheating at their institution, and gives guidance on which papers are of the highest concern.

- a. Document Details & Escalation
- b. Investigator Reports
  1. **Metadata** about the student's documents
  - 2 **Forensic Linguistic Analysis** to examine the student's writing patterns.

## II. CONTRACT PERIOD, PRICE AND TERMS OF PAYMENT

The **PNU** shall pay **LIBTECH SOURCE PHILIPPINES INC.** the amount of **One Million Two Hundred Eighty-Four Thousand Eight Hundred Sixty-Four pesos and 00/100 only (Php 1,284,864.00)**, which shall be paid within thirty (30) days upon issuance of the sales invoice and final acceptance of End-User/Supply and Property Unit (SPU).

This Agreement shall be effective from **JULY 19, 2023** until **JULY 18, 2024** or **one (1) year** from the date of execution hereof and/or until terminated by either PNU or LIBTECH SOURCE PHILIPPINES INC. upon thirty (30) days prior written notice to PNU/LIBTECH SOURCE PHILIPPINES INC. Notwithstanding the foregoing, either PNU/LIBTECH SOURCE





PHILIPPINES INC. may terminate this Agreement at any time for failure of PNU/LIBTECH SOURCE PHILIPPINES INC. to comply with any of the terms and conditions stated herein.

In case of any defect, failure or error in the access thereof, the **PNU's Publication Office** shall so notify the **LIBTECH SOURCE PHILIPPINES INC.** and the latter shall attend to it without delay. If necessary and upon written request by the **PNU**, the **LIBTECH SOURCE PHILIPPINES INC.** shall promptly request the provider to fix the defect or error in the access thereof.

The relationship between the **PNU** and **LIBTECH SOURCE PHILIPPINES INC.** is that of an independent contractor. No contract of employment, agency, partnership, and/or joint venture is hereby created, whether express or implied, by virtue of this Agreement.

The **PNU** shall not assign its right under this AGREEMENT to any other person, unless said assignment was made with the written consent of the **LIBTECH SOURCE PHILIPPINES INC.** Any violation of this provision shall make the assignment void and without force and effect.

The signatories hereto hereby warrant that they are duly authorized to represent and bind the **PNU** and **LIBTECH SOURCE PHILIPPINES INC.** that they each represent. The **LIBTECH SOURCE PHILIPPINES INC.** does not make any specific warranty other than expressly stated herein and no other warranties shall be implied from the terms of this Agreement.

Any amendment whether clarificatory or supplementary to this Agreement shall only be made in writing and signed by the **PNU** and **LIBTECH SOURCE PHILIPPINES INC.** hereto.

All notices and correspondence of any nature sent to either **PNU** or **LIBTECH SOURCE PHILIPPINES INC.** at its above given address via personal service, registered mail or private courier shall bind that **PNU/LIBTECH SOURCE PHILIPPINES INC.**, unless written notice of change of address has been received by the other.

Any court action arising from this Agreement shall be filed only before the competent court in Makati City, to the exclusion of all others.

### III. RA 9184 DOCUMENTARY REQUIREMENTS

Provisions of the 2016 Revised RA 9184 shall be applicable for this contract implementation. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, viz.:

- i. Philippine Bidding Documents (PBDs);
  - i. Schedule of Requirements;
  - ii. Technical Specifications;
  - iii. General and Special Conditions of Contract; and
  - iv. Supplemental or Bid Bulletins, if any
- ii. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;  
  
Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
- iii. Performance Security;
- iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
- v. Other contract documents that may be required by existing laws and/or the





Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

IV. MISCELLANEOUS


1. All rights of the PNU and LIBTECH SOURCE PHILIPPINES INC. in this agreement shall not be assigned or otherwise transferred without the written consent of PNU/LIBTECH SOURCE PHILIPPINES INC.
2. In case PNU needs additional services, modifications or upgrades to the Service, not covered by this agreement, a written amendment to this Agreement or a separate Agreement shall be executed by the PNU and LIBTECH SOURCE PHILIPPINES INC.
3. Any dispute arising from this contract between the PNU and LIBTECH SOURCE PHILIPPINES INC. shall be referred first to arbitration in the City of Manila recourse to courts of competent jurisdiction shall be availed of.
4. If, after referral of any dispute between the PNU and LIBTECH SOURCE PHILIPPINES INC. to arbitration, the PNU and LIBTECH SOURCE PHILIPPINES INC. fail to amicably settle the same, any legal action arising from this contract shall be instituted in the proper courts in the City of Manila, waiving for this purpose any other proper venues.

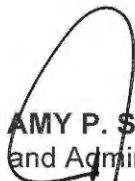
This Agreement binding and valid upon approval by the proper authorities.

IN WITNESS WHEREOF, the parties hereto set their respective hands on the day, month and year and at the place first above written.

REPUBLIC OF THE PHILIPPINES  
PHILIPPINE NORMAL UNIVERSITY

LIBTECH SOURCE PHILIPPINES INC.

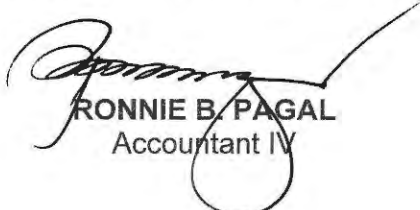
  
BERT J. TUGA  
President

  
AMY P. SABLAON  
Finance and Administrative Manager

  
JOSE M. OCAMPO JR.  
Vice President for  
Finance and Administration  
Witness

  
Witness

CERTIFICATION AS TO AVAILABILITY OF FUNDS

  
RONNIE B. PAGAL  
Accountant IV



Republic of the Philippines  
PHILIPPINE NORMAL UNIVERSITY  
Taft Avenue, Manila

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


ACKNOWLEDGEMENT

BEFORE ME, a Notary Public this JUL 19 2023 day of 2023 at the City of MAKATI CITY, personally appeared:

Name	Gov't. ID No./CTC	Issued On/At
1. BERT J. TUGA		
2. AMY P. SABLAON	P76445296	JUNE 22, 2018 / DFA NCR WEST

Known to me and to me known to be the same persons who executed the CONTRACT consisting of six (6) pages including this page of acknowledgement and they acknowledged to me that the same is their free and voluntary act and deed, as well as the free act and deed of the entities they represent respectively.

WITNESS MY HAND AND SEAL on the date and place first above written.

  
**ATTY. REMY M. VILLA**  
Notary Public of Makati City  
Appointment No. M-111  
Until December 31, 2024  
PTR No. MKT 9565644; 01-03-2023; Makati City  
ID# Lifetime No. 013375; 12-27-2013; I.C.  
**NOTARY PUBLIC**  
**Until 31 December 2023**  
PTR No. MCI Compliance No. VII-0024195; 11-15-2022  
Ground Floor, Makati Terraces Condominium  
3650 Davila St., Brgy. Tejeros, Makati City 1204

Doc No. 306  
Page No. 63  
Book No. XXX  
Series of 2023



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Ms. ANALYN Q. CAPOTE**  
**Xitrix Computer Corporation**  
23 Detroit St. Cubao Quezon City  
8721-9999 / 09475987022  
[analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net)

Dear Ms. Capote:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (Lot 3)** is hereby awarded to **XITRIX COMPUTER CORPORATION** pursuant of BAC Resolution No. GD 2023-10-137-C dated **December 6, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **XITRIX COMPUTER CORPORATION** in the total amount of **Three Million Three Hundred Ninety-Six Thousand Pesos and 00/100 (P 3,396,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**P 169,800.00**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**P 1,018,800.00**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
BERT J. TUGA  
President

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative

DEC 18, 2023  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)





**PHILIPPINE NORMAL UNIVERSITY**  
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[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Ms. DIANNE S. DOMER**

**Amellar Solutions**

Unit 302 Goldhill Tower, #5 Annapolis St.,

Barangay Greenhills, San Juan City

8705-7183 / 0927-3293247

[domerdiannel1996@gmail.com](mailto:domerdiannel1996@gmail.com)

Dear Ms. Domer:

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (Lot 1,2 and 4)** is hereby awarded to **AMELLAR SOLUTIONS** pursuant of BAC Resolution No. GD 2023-10-137-C dated December 06, 2023.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **AMELLAR SOLUTIONS** in the total amount of **Six Million Nine Hundred Forty-Seven Thousand Nine Hundred Ninety-Nine Pesos and 75/100 (₱ 6,947,999.75)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (₱ 347,399.99); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (₱ 2,084,399.93); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,

By Authority of the Board of Regents:

  
BERT C. TUGA  
President

Conforme:

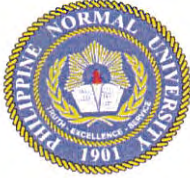
  
DIANNE DOMER

Name of Authorized Representative

DECEMBER 18, 2023

Date

*(All documents without PNU QS Stamp or Control Identifier are uncontrolled)*



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
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www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**BAC Resolution Declaring the Single Calculated and Responsive Bidder  
and Recommending Approval**

**Resolution No. GD-2023-10-137-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment** on October 28 – November 20, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Ten Million Four Hundred Seven Thousand Four Hundred Pesos and 00/100 only (Php 10,407,400.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **06 November 2023 (Monday)** via Zoom, wherein six (6) interested suppliers attended the Conference, namely:

1. Pinnacle Technologies Inc. represented by Ms. Sharmaine Tajantajan and Ms. Rissa Mae Tulagan ([sharmaine@schools.ph](mailto:sharmaine@schools.ph));
2. Xitrix Computer Corporation represented by Ms. Ana Capote ([analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net));
3. The Brain Computer Corporation represented by Ms. Janice Bautista ([jnice\\_bautista@brain.com.ph](mailto:jnice_bautista@brain.com.ph));
4. Allcard Inc. represented by Mr. Bernie Cano ([bdcano@allcard.com.ph](mailto:bdcano@allcard.com.ph));
5. Xymbolic IT Solutions Provider Corporation represented by Ms. Jacqui Fernandez ([jfernandez@xymbolic.com.ph](mailto:jfernandez@xymbolic.com.ph));
6. Amellar Solutions represented by Ms. Dianne Domer ([domerdiannel1996@gmail.com](mailto:domerdiannel1996@gmail.com))

**WHEREAS**, the Technology-Related Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **20 November 2023 (Monday)** at 11:00 AM held at Rm. 204, Pedro Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, only two (2) bidders bought the Official Bid Documents, and submitted Bid, namely: **Amellar Solutions** represented by Ms. Dianne Domer ([domerdiannel1996@gmail.com](mailto:domerdiannel1996@gmail.com)) and **Xitrix Computer Corporation** represented by Ms. Ana Capote ([analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net));

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 – Wi-Fi 6 Access Point for classrooms (100 units) and Access Controller (ABC: Php 1,500,000.00)	Amellar Solutions	1,488,000.00	Eligible
Lot 2 – High-End Wi-Fi 6 Access Point for venues with accessories and Wi-Fi Network Quality System (ABC: Php 2,687,400.00)	Amellar Solutions	2,680,000.00	Eligible
Lot 3 – Smart TV 4K HDR and Accessories (ABC: Php 3,400,000.00)	Amellar Solutions	3,280,000.00	Eligible
	Xitrix Computer Corporation	3,396,000.00	Eligible
Lot 4 – Hybrid/Hyflex Classroom (ABC: Php 2,820,000.00)	Amellar Solutions	2,780,000.00	Eligible



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**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Amellar Solutions** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents for Lot 1, Lot 2, and Lot 4 only;

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Xitrix Computer Corporation** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents for Lot 3 only;

**WHEREAS**, during the Technical Evaluation conducted by the Technical Representative, **Amellar Solutions** failed to comply and satisfy the Eligibility Documents, particularly the requirements specified in Section VII. Technical Specifications of the bidding documents for Lot 3 only;

**WHEREAS**, on **28 November 2023**, **Amellar Solutions** was officially sent a Notice of Non-Compliance through email which was acknowledged receipt by the bidder on **29 November 2023**;

**WHEREAS**, upon arithmetical computation, **Amellar Solutions** Financial Bid amounting to **Six Million Nine Hundred Forty-Seven Thousand Nine Hundred Ninety-Nine Pesos and 75/100 (₱ 6,947,999.75)** with an equivalent of 0.85% (**₱ 59,400.25**) variance from the ABC was then Ranked No. 1 for Lot 1, Lot 2, and Lot 4, subject to further evaluation to ascertain, verify, and validate the submitted bid;

**WHEREAS**, upon arithmetical computation, **Xitrix Computer Corporation** Financial Bid amounting to **Three Million Three Hundred Ninety-Six Thousand Pesos and 00/100 (₱ 3,396,000.00)** with an equivalent of 0.12% (**₱ 4,000.00**) variance from the ABC was then Ranked No. 2 for Lot 3, subject to further evaluation to ascertain, verify, and validate the submitted bid; and

**WHEREAS**, on **05 December 2023 (Tuesday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Amellar Solutions** and **Xitrix Computer Corporation** and were found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained their bid documents;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Amellar Solutions**, its bid of **Six Million Nine Hundred Forty-Seven Thousand Nine Hundred Ninety-Nine Pesos and 75/100 (₱ 6,947,999.75)** was found to be responsive;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Xitrix Computer Corporation**, its bid of **Three Million Three Hundred Ninety-Six Thousand Pesos and 00/100 (₱ 3,396,000.00)** was found to be responsive; and

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **AMELLAR SOLUTIONS** be declared as the Single Calculated Responsive Bid for Lots 1, 2, and 4, in consideration of its total amount of Bid equal to **Six Million Nine Hundred Forty-Seven Thousand Nine Hundred Ninety-Nine Pesos and 75/100 (₱ 6,947,999.75)**;
- b. That **XITRIX COMPUTER CORPORATION** be declared as the Lowest Calculated Responsive Bid for Lot 3 in consideration of its total amount of Bid equal to **Three Million Three Hundred Ninety-Six Thousand Pesos and 00/100 (₱ 3,396,000.00)**;
- c. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- d. That, a **Notice of Award (NOA)** be issued to **AMELLAR SOLUTIONS** and **XITRIX COMPUTER CORPORATION** upon adoption and approval of this BAC Resolution.





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e. To recommend the foregoing for the approval of the President of the Philippine Normal University

**RESOLVED**, during the Regular Meeting held on **December 6, 2023**, virtually via Zoom application.

**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-10-137-C**

  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair / End-user

  
**MARIE PAZ E. MORALES**  
Member

  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

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**NOTICE TO PROCEED**

December 22, 2023

**Ms. DIANNE S. DOMER**  
**Amellar Solutions**  
Unit 302 Goldhill Tower, #5 Annapolis St.,  
Barangay Greenhills, San Juan City  
8705-7183 / 0927-3293247  
[domerdianne1996@gmail.com](mailto:domerdianne1996@gmail.com)


Dear Ms. Domer:

The attached Purchase Order having been approved, notice is hereby given to **AMELLAR SOLUTIONS** that work may commence for the project: **Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (Lot 1,2 and 4)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President *MT*

I acknowledge receipt of this Notice on (date of receipt) DECEMBER 29, 2023

Name of the Representative of the Bidder: DIANNE DOMER

Authorized Signature: 



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731

[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE TO PROCEED**

December 22, 2023

**Ms. ANALYN Q. CAPOTE**  
**Xitrix Computer Corporation**  
23 Detroit St. Cubao Quezon City  
8721-9999 / 09475987022  
[analyn.capote@xitrix.net](mailto:analyn.capote@xitrix.net)


Dear Ms. Capote:

The attached Purchase Order having been approved, notice is hereby given to **XITRIX COMPUTER CORPORATION** that work may commence for the project: **Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment (Lot 3)** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

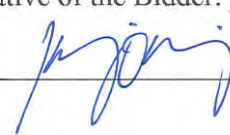
Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) DEC 29, 2023

Name of the Representative of the Bidder: ARIA KINL OBLERA

Authorized Signature: 





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>XITRIX COMPUTER CORPORATION</b>	P.O. No.	<b>23-12-0488</b>
Address:	<b>23 Detroit St. Cubao Quezon City</b>	Date:	<b>December 22, 2023</b>
TIN :	<b>220-418-197-000</b>	Mode of Procurement:	<b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

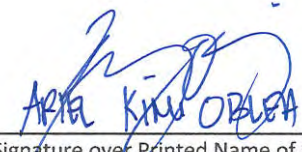
Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 45 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u></b>			
	units	<b>Xitrix 65" UHD 4K Android 11 Smart LED TV</b> Operating System: Android 11/Android TV or its equivalent Display Size/ Panel size: at least 65inch Preinstalled Applications: Google Playstore, Google Play, Chromecast or its equivalent Aspect ratio: 16:9 Viewing angle: H:178°/V:178° Max. resolution: 3840*2160 Ultra HD Resolution Max. brightness: Typ:250cd/m2 Input signal: 3 x HDMI 2.0 (HDCP 2.2); 2 x USB Ports, AV In, RJ45 LAN Port, SPDIF Out Optical; HDMI-ARC, HDMI-CEC CPU: Quad Core ARM Cortex-A55; Mali-G52 MC1 or its equivalent RAM / ROM: at least 2GB DDR3, 8GB Storage Wireless: Wi-Fi AC Connectivity: 2.4G/5G Wireless T2TR; Bluetooth USB: support:Video/Audio/Image Feature: Built in Screen Casting; ISDB Digital TV; Frameless Bezel Design or its equivalent Environmental: Energy Star Certified or its equivalent <b>Additional submittal documents during bid opening:</b> Warranty: Bidder(s) shall submit a certificate of three-year (3) warranty on parts and services and availability of spare parts within 10 years during the bid opening. Delivery Period: 30-45 days; no installation required The Brand Manufacturer must be ISO 9001 and ISO 14001. Bidder shall submit the Manufacturer ISO certificates during the bid opening The Brand of the Smart TV must be in the Philippine market for more than Ten (10) years. (submit a certification form the Brand Manufacturer during the bid opening submission) Certification that the During bid opening, bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s.  Bidder must submit during bid opening at least five sessions of PMS (Preventive Maintenance Service) and calibration services for the equipment and issue pertinent certificate	<b>50</b>	<b>₱49,480.00</b>	<b>₱2,474,000.00</b>
		<b>Page 1 of 3</b>			

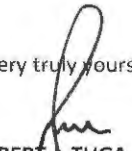
(Total Amount in Words)	<b>₱2,474,000.00</b>
-------------------------	----------------------

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
**Dec 29, 2023**  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available:

  
**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.: **02-0102101-2023-12-2051**  
Amount: **₱ 3,396,000**



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	XITRIX COMPUTER CORPORATION	P.O. No.	23-12-0488
Address:	23 Detroit St. Cubao Quezon City	Date:	December 22, 2023
TIN :	220-418-197-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

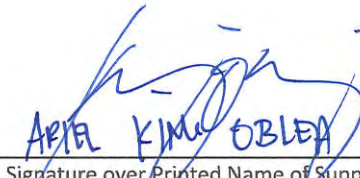
Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

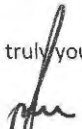
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u>			
		Balance Forwarded			₱2,474,000.00
	unit	Winning bidder will deliver the smart tv to PNU campuses (Lopez Quezon, Agusan Del Sur, Alicia Isabela and Cadiz City, Negros Occidental)			
	unit	Xitrix SB42 2.1 Channel Home Theater Sound Bar	50	₱14,980.00	₱749,000.00
		Wireless bluetooth			
		Support wired and wireless			
		Support wall mount			
		HDMI, Aux, USB, optical port			
		ARC support			
		110-220v			
		Speaker Size: 2" x 4+5.25" x 1 (Subwoofer)			
		Signal-Noise Ratio: >=75dB			
		4ohms(T)+4ohms(S)			
		10Wx4+20W\			
		Power Supply: DC 18V/2.9A			
		One (1) year warranty on support, for parts and services. Submit warranty certificate during bid opening			
		Delivery Period: 30-45 days; no installation required			
	unit	10 meters HDMI cable supports 4K UHD	50	₱1,880.00	₱94,000.00
		At least 10 meters HDMI cable			
		Must be compatible with the offered Smart TV 4K HDR			
		No installation required			
Page 2 of 3					

(Total Amount in Words) ₱3,317,000.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
Date: Dec 29, 2023

Very truly yours,  
  
BERT L. TUGA  
President

Funds Available:

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.: 02-01102101-2023-12-2051  
Amount: ₱ 3,396.000





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	XITRIX COMPUTER CORPORATION	P.O. No.	23-12-0488
Address:	23 Detroit St. Cubao Quezon City	Date:	December 22, 2023
TIN :	220-418-197-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

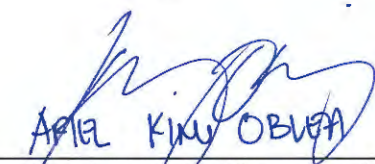
Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u>	Balance Forwarded		₱3,317,000.00
	unit	Xitrix Basic Wall Mount Kit Minimum requirements or its equivalent Screen size: 32"-75" Tilt Range: 0-15° Swivel: 0° Weight Capacity: 40kg/88lbs VESA Compatible: 600*400mm No installation required	50	₱1,580.00	₱79,000.00
References: BAC Sol# GD 2023-10-137 PR#23102132 Ref#10272030					
Page 3 of 3					

(Total Amount in Words) Three Million Three Hundred Ninety-Six Thousand Pesos and 00/100 ₱3,396,000.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
Date 29, 2023

Very truly yours,

BERT J. TUGA  
President

Funds Available:

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.: 02-D1102101-2023-12-2251  
Amount: ₱ 3,396,000





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0487
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
	lot	<p><b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b></p> <p><b>Maipu IAP300-821-PE (100 units) and Maipu IGW500-1500 Internet Gateway (1 unit)</b></p> <p><b>Maipu IAP300-821-PE</b> Wifi 6th Gen. Hardware and Accessories Wireless dual-band 802.11a/b/g/n/ac/ax Wireless Access Point ,2x2:2 streams (2.4GHz/5GHz) OFDMA, MU-MIMO, dual ports, 802.3at PoE support. Does not include power adapter or PoE injector. Must have Four built-in 4dbi antennas The power consumption must be less than 13W Support Open/Portal/PSK/802.1X authentication methods. Must support the following AP features: Limit Numbers of Access Clients; Manually Restore; Manually/Automatically Upgrade; Manually / Regularly Restart; Manually Set Transmission Power; Manually/Automatically Set Work Channel; Automatically Adjust Transmission Rate; Manually Configure 20MHz/40MHz/80MHz Channel Bandwidth; Manually/Automatically Channel Optimization. Must support the following AP reports on the controller: Traffic Statistics; RF Parameters; Memory/CPU Utilization; STA Information Must support Load-balance based on Wireless Clients/RF/APs(2.4GHz&amp;5GHz). Must support L2 Roaming Must support Portal Authentication on the controller with the following features: Authentication-free IP, Authentication-free MAC, Password-free Authentication SSID, Portal No-sense Authentication. Must support QoS Features on the controller with the following Features: Bandwidth Limitation Based on AP Group/Service Name, Downlink/Uplink Bandwidth Control. Must support IP ACL and Time-based ACL on the controller. The Service Provider must provide Power over Ethernet (PoE) Adapter (10/100/1000 Mbps) (100 units) for APs. The Access Points must support both local (AC) and cloud management. The 100 units of Wi-Fi 6 Access Point is for delivery only. No installation is required</p>	1	₱1,488,000.00	₱1,488,000.00
Page 1 of 6					
(Total Amount in Words)					₱1,488,000.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

DIANNE DOUTER

Signature over Printed Name of Supplier

Dec. 29, 2023

Date

Very truly yours,

BERT J. TUGA

President

Funds Available: 4,268,000	ORs/BURS No.: 06-0110101-2023-12-2054 Amount: ₱ 4,268,000
ARGEA LINN PALABRICA Accountant III	



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0487
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

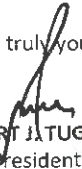
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u></b>			<b>Balance Forwarded</b>
					<b>₱1,488,000.00</b>
		<b>Maipu IGW500-1500 Internet Gateway</b>			
		8*1000M Base-T Port			
		2*1000M SFP Port			
		The power consumption must be less than 10W			
		1 RJ45 Console			
		1 USB2.0			
		1 RST bottom			
		Built-in Single AC Power			
		Must have two working modes: Controller mode and Gateway mode.			
		Must support 50 IPSec Tunnels			
		At least support 4 WAN ports and support WAN traffic load-balance (per Source, per Traffic).			
		At least support 512 Access Points.			
		Must support Static Routing/NAT/PPPoE/DHCP Server/DHCP Client			
		Must support STA Management with the following features: MAC Address, IP Address, Associated AP Name, Associated SSID, Association Status, RSSI, Negotiation Rate, Negotiation Wireless Mode, Online Duration, Receive/Send Traffic Statistics, Association Failure Records			
		Must support Wireless Security features: WPA/WPA2/WPA3, STA Isolation, STA SAVI, STA Blacklist & Whitelist, Anti-rogue, Flood Attack Detection, SSID Hidden			
		Must support security features: App Filtering for Hot Apps, URL Filtering, Keyword Filtering, Mail Filtering (Mail Size & Number of Attachments), File Type Filtering, Intrusion prevention (IPS), Single Packet Attack Defense, Flood Attack Defense, Network Scan Attack Defense, Source Address Spoofing Defense, Network Access Blacklist, Behavior Record, Access Control List, Bandwidth Limitation of Downlink and Uplink Interfaces, Connection Number Limitation, Time Access List.			
		Must support QoS Features: Bandwidth Limitation Based on AP Group, Bandwidth Limitation Based On SSID, Bandwidth Limitation Based On User			
		Must support management with the following features: Change Password, Factory Reset, Restart			
		Page 2 of 6			

(Total Amount in Words) ₱1,488,000.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
DIANNE BOMER  
Signature over Printed Name of Supplier  
Dec. 29, 2023  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: 4,268.00	OR5/BURS No.: 06-01102101 - 2023-12-2024 Amount: 4,268.00
ARGEA LINN P. PALABRICA Accountant III	



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0487
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b>			<b>Balance Forwarded</b> <b>₱1,488,000.00</b>
		Must support Log Function, Support Exporting Local Log, Sending Log to Server, Network Diagnosis (Packet Capture, Ping Detection, Traceroute Detection), CAPWAP, Web, SNMP, Cloud, Configuration Backup and Restore, System Upgrade, Feature Library Upgrade. Must support Telnet, SSHv2, web, console, SNMPv2/SNMPv3 and MMC cloud management platform The Access Controller must support both local and cloud management. The cloud management platform must be a unified management platform that supports managing wireless, switches and routers together. The cloud management platform must be deployed in Philippines locally. The cloud management platform can be also deployed on-premises on hardware servers. With installation and configuration Warranty: One (1) year warranty on support, parts and services. Submit Warranty certificate during bid opening Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. Delivery Period: 30-45 days			
	lot	Hybrid/Hyflex Classroom <b>Ultra HD Conference Camera VC21 (1 unit per classroom)</b> Supports 1080P@60fps high-definition resolution output. Uses a high-quality ultra-wide-angle lens with a 72.5° field of view, achieving 12x optical zoom and supporting 16x digital zoom.  Supports RS232, RS485, IP, and USB interfaces for controlling the camera's pan, tilt, zoom functions. Supports HDMI, USB3.0, and IP output for high-definition video, compatible with mainstream video conferencing systems.  Supports 2D and 3D noise reduction for video enhancement. Supports camera configuration via web access and supports video streaming protocols such as RTMP, SRT, RTSP, and ONVIF.  Supports power supply options of DC5V, DC12V, and standard POE (Power over Ethernet)	1	₱2,780,000.00	₱2,780,000.00
Page 3 of 6					

(Total Amount in Words) **₱4,268,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

DIANE MONTER  
Signature over Printed Name of Supplier  
Dec. 29, 2023  
Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: **4,268,000**

ARGEA LINN P. PALABRICA  
Accountant III

ORS/BURS No.: **06-01102101-2023-12-2054**  
Amount: **₱ 4,268,000**





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0487
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement	Public Bidding

Gentlemen:  
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Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b>			<b>Balance Forwarded ₱4,268,000.00</b>
		<b>Ultra HD Conference Camera VC22 - Auto Tracking (1 unit per classroom)</b> Supports 1080P@60fps high-definition resolution output. Utilizes a high-quality ultra-wide-angle lens with a 72.5° field of view and achieves 12x optical zoom. Supports RS232, RS485, IP, and USB interfaces for controlling the camera's pan, tilt, zoom functions. Supports simultaneous 3G-SDI, HDMI, USB, and IP audio-video output, compatible with mainstream video conferencing systems Supports 2D and 3D noise reduction for video enhancement. Supports camera configuration via web access and supports video streaming protocols such as RTMP, SRT, RTSP, and ONVIF. Integrates intelligent AI technology, utilizing pedestrian re-identification technology to accurately determine the position of each person based on clothing, body shape, hairstyle, and facial recognition, enabling automatic identification, tracking, and framing of target individuals. Also includes smart privacy blurring for meetings. Built-in audio processing algorithms that eliminate echo, effectively reduce ambient noise, and support EQ adjustment to optimize sound effects. Supports power supply options of DC5V, DC12V, and standard POE (Power over Ethernet).			
		<b>High-Speed Document Scanner VCK800 (1 unit per classroom)</b> 8 million pixels (3264x2448). Support scanning of A4 paper documents. Equipped with LED fill light. Supports JPG, TIF, BMP image formats. Support the functionality of annotating, explaining, teaching, and recording on the interactive whiteboards (windows OS) using a mouse or wireless teaching wand. The software has quick navigation and jump functions on every interface, making it convenient for teachers to switch between functions quickly. Allows for adjusting color, file format, image quality, brightness, exposure, and other settings for photos. Supports USB interface for power supply and data transmission.			
		<b>65inch Interactive Whiteboard EU65112AW (1 unit per classroom)</b> 65-inch industrial-grade high-definition display screen, supporting 4K (3840 * 2160) resolution. Supports 10-point infrared touch. Built-in Android 11 operating system, with at least 4GB RAM and 64GB storage. Built-in Windows 10 operating system, with at least 8GB RAM and 256GB storage. Viewing angles: horizontal and vertical 178°. Brightness: 350cd/m², contrast ratio 1200:1.			
		Page 4 of 6			

(Total Amount in Words)	₱4,268,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

DIANNE DIMER  
Signature over Printed Name of Supplier  
Dec. 29, 2023  
Date

Very truly yours,


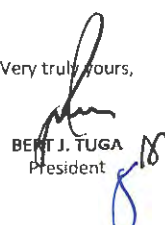


BERT J. TUGA  
President

Funds Available:

4,268,000

ARGEA LINNAL PALABRICA  
Accountant III

ORS/BURS No.: 06 - 01102101 - 2023 - 122054  
Amount: ₱ 4,268,000

		<b>PURCHASE ORDER</b> Philippine Normal University Agency			
Supplier: <b>AMELLAR SOLUTIONS</b>		P.O. No. <b>23-12-0487</b>			
Address: <b>Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City</b>		Date: <b>December 22, 2023</b>			
TIN : <b>141-810-654-000</b>		Mode of Procurement <b>Public Bidding</b>			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>		Delivery Term: <b>within 45 calendar days</b>			
Date of Delivery:		Payment Term:			
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b>	<b>Balance Forwarded</b>		<b>₱4,268,000.00</b>
		<b>TCL QLED 65inch Smart TV (1 unit per classroom)</b> 65 Inch 4K OLED display Aspect Ratio: 16:9 Refresh Rate: 60Hz / DLG 120Hz Operating System: Google TV or its equivalent Contrast Ratio: 6000:1 (typ.) System Brightness - Full White : 450 nits (typ.) Bluetooth 5.0 2.4GHz/5GHz dual-band Wi-Fi 802.11 b/g/n 2T2R <b>Ceiling Microphone ZM700 (1 unit per classroom)</b> Utilizes a circular microphone array consisting of 7 omnidirectional microphones, achieving clear pickup of audio up to a distance of 8 meters.  Integrates intelligent audio processing algorithms, supporting functions such as echo cancellation, noise suppression, gain control, and reverberation suppression, meeting the audio pickup needs for classroom applications.  Sensitivity: -26dBFS. Frequency response: 20Hz - 16kHz. Supports 1 x USB 2.0 digital audio interface, 1 x 3.5mm audio input, and 2 x 3.5mm audio output interfaces, satisfying the requirements for digital and analog audio connectivity in the classroom. <b>HC Tek Conference Controller (1 unit per classroom)</b> <b>Minimum requirements or its equivalent</b> Processor: Intel Core i5 or higher OS: Windows 10 or higher Touch Screen Console Display: Anti-glare, Anti-Fingerprint, Multi-touch RAM: 8gb or higher 256 GB SSD or Higher Connectivity Technology: Wired / Wireless Datalink Protocol: Bluetooth 5.0, Wifi 6 or higher <b>HC Tek 2MP AI Thermal Camera YC-9288-V3 (1 unit per classroom)</b> <b>Thermal Image Module:</b> Thermal Image Pixel 256*192 Sensor Size 12µm			
Page 5 of 6					
(Total Amount in Words)					<b>₱4,268,000.00</b>
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.					
Conforme:		Very truly yours,   <b>BERT J. TUGA</b> President			
 <b>DIANNE BONTOR</b> Signature over Printed Name of Supplier <u>Dec. 29, 2023</u> Date					
Funds Available: <b>4,268,000</b>		ORS/BURS No.: <b>06-01102101-2023-12-2094</b> Amount: <b>₱ 4,268,000</b>			
 <b>ARGEA LINN B. PALABRICA</b> Accountant III					



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0487
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b>		Balance Forwarded	₱4,268,000.00
		Non-contact Temp Measurement, Accuracy ±0.2°C Temp Range: -15°C~150°C Max Temp, Min Temp, Average Temp, Temp data OSD Overlaying display Full-screen temperature measurement, Auto tacking the Max temp and Min Temp of full screen Support Manual Temperature range correction Support white heat, black heat, fusion, rainbow, autumn, noon, iron red, amber and other pseudo-color adjustable <b>Visible Light module:</b> 1/2.8" 2.0M CMOS Image sensor 0.005Lux F1.2 color, 0.001Lux F1.2 B/W Max resolution up to 1920x1080@30fps <b>General Function:</b> The embedded depth learning algorithm supports the function of face capture, which can detect and capture 20-30 faces simultaneously  Support face tracking and scoring, multi-frames recognition, automatic filtering and output of the optimal face, and reduce repeated capture  Built in 50000 Face database Built in EMMC 16G SD Card, support max 100000 temperature detection records HDMI Video output, support connecting TV monitor directly without PC Support H.265+ /H.265 / H.264 +MJPEG dual coding, Three-code stream Support ONVIF, GB/T28181 and other network protocols A single IP scheme, rich network expansion ability, easy access to various video surveillance platforms Open system, can provide Windows SDK development package and CGI protocol, rapid secondary development Protection Level: IP65 Dimensions: 246mm*101mm*78mm Weight <1kg Warranty: Warranty: 1 year on parts, support and services. Submit warranty certificate during bid opening <b>Additional requirements and submittal documents during bid opening</b> Warranty: Bidder(s) shall submit a certificate of warranty on parts and services during the bid opening. Certification that the bidder employs at least 3 technical support from the offered brand. Bidder must submit certification of technical support during the bid opening Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. Winning bidder must supply, deliver and install to the three (3) classrooms Delivery Period: 30-45 days; inclusive of installation and configuration			
Page 6 of 6					
				References:	
				BAC Sol# GD 2023-10-137	
				PR#23102132	
				Ref#10272030	

(Total Amount in Words)	Four Million Two Hundred Sixty-Eight Thousand Pesos and 00/100 only	₱4,268,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

*[Signature]*  
**DIANNE BOWER**  
Signature over Printed Name of Supplier  
Dec. 29, 2023  
Date

Very truly yours,  
*[Signature]*  
**BERT J. TUGA**  
Resident

Funds Available: 4,268,000	ORs/BURS No.: 06-011101-2023-12-2054 Amount: 4,268,000
<b>ARGEALINN P. BALABRICA</b> Accountant III	





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0490
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u>			
	units	Maipu IAP300-830-PTE Access Points Wifi 6th Gen. Hardware and Accessories Support 802.11a/b/g/n/ac/ax wireless standards Must have 1*10/100/1000M /2.5Gbps Base-T adaptive Ethernet copper port, Support 802.3at PoE Must have 1*10/100/1000Mbps Base-T adaptive Ethernet copper port, support PoE OUT <10W Must have 1*USB2.0 port Must have 1*RJ45 Console port Must have 1*Reset Button Must support 802.3at compatible PoE power supply and 12V DC input both Forwarding capacity of the whole machine ≥ 5.4Gbps Support frequency band 2.4 - 2.483GHz, 5.150-5.350GHz, 5.725-5.850GHz Must have 3 wireless radios, Radio1: 2.4 GHz, 2 streams: 2*2; Radio2: 5.2 GHz, 2 streams: 2*2; Radio3: 5.8 GHz, 2 streams: 2*2  Support wireless clients no less than 256 per device Must Support AC Discovery CAPWAP Broadcast, DHCP Option43, DHCP Option52 Support AP Remote Control Force offline, limit the number of access users, restore the factory settings of the AP, restart the AP manually, restart the AP regularly Must support AP Status Report Traffic statistics, RF parameters, memory/CPU information, STA information Must support STA Management 5GHz prior, 2.4G/5GHz load balancing, based on user load, based on traffic load balancing, L2 roaming  Must support portal authentication: Local Portal, External Portal, Portal whitelist, MAC Portal, Portal URL Redirection, Portal authentication free, Portal no-sense authentication Must support Anti-Flood Attack Detection TCP Flood, UDP Flood, ICMP Flood, TCP Sync Flood, ARP Flood, Beacon Flood, etc.  Wireless QoS AP Rate Limitation, BSS Total Bandwidth Limitation, BSS User Bandwidth Limitation, BSS Minimum Bandwidth Guarantee, BSS priority mapping Must support wireless ACL AP ACL, BYOD ACL, Time-Based ACL Must be managed by existing AP Controller The Access Points must support both local (AC) and cloud management. The cloud management platform must be a unified management platform that supports managing wireless, switches and routers together. The cloud management platform must be deployed in Philippines locally. The cloud management platform can be also deployed on-premises on hardware servers The 45 wireless fidelity (WiFi) is for delivery only. No installation is required. Power-Over-Ethernet (PoE) Adapter - compatible with the Wi-Fi 6 Access Points Ethernet Port (10/100/1000 Mbps) for APs (45 units)	45	₱38,287.11	₱1,722,919.95
Page 1 of 4					

(Total Amount in Words)	₱1,722,919.95
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

DIANNE BOMER

Signature over Printed Name of Supplier

DEC - 29, 2023

Date

Very truly yours,

BERT J. TUGA  
President

Funds Available:

2,679,999.75

ARGEA LINN PALABRICA  
Accountant III

ORS/BURS No.: 02-01102101-2023-12-2053  
Amount: ₱ 2,679,999.75



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0490
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</b>			<b>Balance Forwarded</b>
					<b>₱1,722,919.95</b>
	lot	<b>Secure Mounting Bracket – compatible with the Wifi6 Access Points</b>			
		Three (3) years warranty on support, parts and services (45 units)			
		Access Points (AP) Management License (One (1) year subscription) for the Wi-Fi 6 Access Points (45 licenses)			
		Secure Mounting Bracket - compatible with the Wi-Fi 6 Access Points (45 units)			
		The 45 units of Wi-Fi 6 Access Point is for delivery only. No installation is required			
		<b>NetDem Professional Edition Proactive Network Performance Insight System</b>	<b>1</b>		
		Supports the topology of network business paths, which means providing end-to-end representation of network nodes along the business flow path. It should automatically generate the path topology, learn and generate paths through intelligent algorithms, and allow searching and locating using probe IP, probe name, node IP, and node name. It should support automatic refresh, display of alarm information (color-coded), alarm information viewing, and integration of line performance indicators (latency, packet loss, interruption, flow rate, etc.). This functionality should be supported with product screenshots and, if necessary, demo demonstrations.			
		Supports the creation of probe tasks for each network business path and the establishment of quality health records for these tasks. It should allow analyzing the quality of different grouped lines within a custom time range and provide TOPN rankings for different fault types, including cumulative fault occurrence counts and durations. All monitored lines should provide statistics for maximum latency, average latency, maximum packet loss rate, average packet loss rate, fault counts, cumulative fault durations, and other information within a custom time period. This functionality should be supported with product screenshots and, if necessary, demo demonstrations.			
		Supports the automatic generation of path topology diagrams and physical topology diagrams. In the path topology diagram, deteriorating fault line statuses should be highlighted in yellow, and interrupted fault line statuses in red. If there are too many lines causing dense display, it should allow merging and displaying line statistics in a fiber-optic diagram. The physical topology diagram should be generated based on collected LLDP information and data port information, visually representing the connections between devices. It should provide key metrics like latency, packet loss rate, incoming flow rate, and outgoing flow rate on the lines. This functionality should be supported with product screenshots and, if necessary, demo demonstrations.			
		Supports the monitoring of network quality for paths that cannot be covered by ping or traceroute on a single host. It should successfully collect metrics for delay, packet loss, and jitter for lines without traffic, crossover lines, backup lines, heartbeat lines, and unreachable routes. It should visually represent the trend of these line metrics, including delay, packet loss rate, incoming flow rate, and outgoing flow rate. It should also support filtering and analyzing data within specified data ranges based on organization, grouping, device manufacturer, statistical perspective, time period, and keywords.			
		Page 2 of 4			

(Total Amount in Words)	₱1,722,919.95
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

DIANNE DOMER

Signature over Printed Name of Supplier

Dec. 29, 2023

Date

Very truly yours,

BERT TUGA  
President

Funds Available:

2679,999.75

ARGEALINN RALABRICA  
Accountant III

ORS/BUIS No.: 02-01102101-2023-12-2053

Amount: 2,679,999.75



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	AMELLAR SOLUTIONS	P.O. No.	23-12-0490
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	December 22, 2023
TIN :	141-810-654-000	Mode of Procurement:	Public Bidding

Gentlemen:  
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Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u></b>			<b>Balance Forwarded</b> <b>₱1,722,919.95</b>
		Supports the automatic generation of network quality testing reports for a selected time period or predefined time cycle. The content of the testing report should include an overall network quality score, network optimization recommendations, terminology explanations, and testing principles. This functionality should be supported with product screenshots and, if necessary, demo demonstrations.			
		Supports automatic data collection for dedicated lines, statistical analysis of data for all dedicated lines on a given day, and allows specifying data ranges for statistical analysis based on organization, network operator, statistical perspective, time period, and keywords. It should provide an overview of quality analysis. This functionality should be supported with product screenshots and, if necessary, demo demonstrations.			
		Supports the installation of a dedicated Android mobile app for intelligent terminals to connect to Wi-Fi in service areas for signal coverage and signal quality testing. It also supports taking photos and adding labels to test points, and collecting 2.4G/5.8G frequency band WiFi channel maps. The app should provide information about the currently connected WiFi access point, including SSID, signal strength, negotiated connection rate, channel, channel width, effective co-channel/adjacent-channel interference, encryption protocol indicators. It should also allow viewing information about nearby access points, including SSID, devices, MAC addresses, signal strength, channel, and channel width. The mobile Android app should push WiFi quality test results to the same brand management platform and generate quality reports. This functionality should be supported with product screenshots and, if necessary, demo demonstrations.C28			
		Support full-path network quality monitoring through deployment on a single server, without the need to install programs in end devices in the network, achieving connection-oriented network quality monitoring.			
		Support one (1) year subscription for SO IP nodes detection			
		2U high server			
		1* Silver 4110 processor, the main frequency reaches up to 3.0GHz 8Core/16Thread or its equivalent			
		At least 32GB memory			
		At least 2*1.2TB enterprise-class hard disk			
		Warranty: 1 year on parts, support and services			
		Page 3 of 4			

(Total Amount in Words) **₱1,722,919.95**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

**DIANNE DOMER**

Signature over Printed Name of Supplier

**Dec. 29, 2023**

Date

Very truly yours,

**BERT J. TUGA**  
President

Funds Available: **1.679,999.75**

**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.: **02-01102101-2023-12-2053**  
Amount: **₱ 2,679,999.75**





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>AMELLAR SOLUTIONS</b>	P.O. No.	<b>23-12-0490</b>
Address:	Unit 302 Goldhill Tower, #5 Annapolis St., Barangay Greenhills, San Juan City	Date:	<b>December 22, 2023</b>
TIN :	141-810-654-000	Mode of Procurement:	<u>Public Bidding</u>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 45 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment</u></b>	<b>Balance Forwarded</b>		<b>₱1,722,919.95</b>
		<p><b>Additional requirements and submittal documents during bid opening</b></p> <p>Warranty: Bidder(s) shall submit a certificate of warranty on parts and services during the bid opening. The Brand Manufacturer must be ISO 9001 and ISO 14001 or its equivalent. Bidder shall submit the Manufacturer ISO certificates during the bid opening</p> <p>Certification that the bidder employs at least 3 technical support from the offered brand. Bidder must submit certification of technical support during the bid opening</p> <p>Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s.</p> <p>Delivery Period: 30-45 days</p> <p>With installation and configuration</p>			
	<b>units</b>	Power-Over-Ethernet (PoE) Adapter - compatible with the Wi-Fi 6 Access Point Ethernet Port (10/100/1000 Mbps)	<b>45</b>	<b>₱5,237.11</b>	<b>₱235,669.95</b>
	<b>units</b>	Secure Mounting Bracket - compatible with the Wi-Fi 6 Access Points	<b>45</b>	<b>₱2,437.11</b>	<b>₱109,669.95</b>
	<b>units</b>	Access Points (AP) Management License for Wi-Fi 6 Access Points	<b>45</b>	<b>₱4,847.11</b>	<b>₱218,119.95</b>
	<b>units</b>	Three (3) Years warranty on support, parts and services	<b>45</b>	<b>₱8,747.11</b>	<b>₱393,619.95</b>
				<p><i>References:</i></p> <p>BAC Sol# GD 2023-10-137</p> <p>PR#23102132</p> <p>Ref#10272030</p>	
		<b>Page 4 of 4</b>			

(Total Amount in Words)	Two Million Six Hundred Seventy-Nine Thousand Nine Hundred Ninety-Nine Pesos and 75/100	₱2,679,999.75
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

BERT J. TUGA  
President

DIANNE DOWLER

Signature over Printed Name of Supplier

DEC - 29, 2023

Date \_\_\_\_\_

Funds Available: 2,679,999.75

ARGEA LINI P. PALABRICA  
Accountant III

ORS/BURS No.: 02-01102401-2023-12-2053

Amount: \$ 2,679,999.75



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

December 18, 2023

**Ms. SHARMAINE S. TAJANTAJAN**  
**Pinnacle Technologies, Inc.**  
#52 8<sup>TH</sup> Avenue West, Grace Park,  
Caloocan City  
8961-9999 / 0919-0775002  
[sharmaine@schools.ph](mailto:sharmaine@schools.ph)

Dear Ms. Tajantajan:



We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory** is hereby awarded to **PINNACLE TECHNOLOGIES INC.** pursuant of BAC Resolution No. GD 2023-11-130-C dated **December 06, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **PINNACLE TECHNOLOGIES, INC.** in the total amount of **Four Million Eight Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 4,888,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

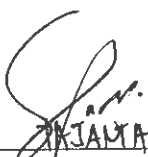
- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**₱ 244,400.00**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 1,466,400.00**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
BERT J. TUGA  
President 

Conforme:

  
SHARMAINE TAJANTAJAN  
Name of Authorized Representative  
12-18-23  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**BAC Resolution Declaring the Single Calculated and Responsive Bidder  
and Recommending Approval**

**Resolution No. GD-2023-10-130-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory** on October 28 – November 20, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Four Million Nine Hundred Seventy-Six Thousand Pesos and 00/100 only (Php 4,976,000.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **06 November 2023 (Monday)** via Zoom, wherein no bidder attended the Conference.

**WHEREAS**, the Technology-Related Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **20 November 2023 (Monday)** at 9:00 AM held at Rm. 204, Pedro Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **Pinnacle Technologies, Inc.** represented by Ms. Sharmaine S. Tajantajan with email address of [sharmaine@schools.ph](mailto:sharmaine@schools.ph)

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
Lot 1 – Interactive Smart Board (ABC: Php 960,000.00)	Pinnacle Technologies, Inc.	948,000.00	Eligible
Lot 2 – SMART TV 4K HDR 65” or its equivalent (ABC: Php 1,716,000.00)		1,684,000.00	Eligible
Lot 3 – LCD Projector or its equivalent (ABC: Php 400,000.00)		388,000.00	Eligible
Lot 4 – Tracking Conference Web Camera or its equivalent (ABC: Php 700,000.00)		688,000.00	Eligible
Lot 5 – Laptop or its equivalent (ABC: Php 1,200,000.00)		1,180,000.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Pinnacle Technologies, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Pinnacle Technologies, Inc.** Financial Bid amounting to **Four Million Eight Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 4,888,000.00)** with an equivalent of 1.77% (**₱ 87,999.98**) variance from the ABC was then Ranked No. 1 (lone bidder);

**WHEREAS**, on **05 December 2023 (Tuesday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Pinnacle Technologies Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;

*All documents without PNU QS Stamp or Control Identifier are uncontrolled)*





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

WHEREAS, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Pinnacle Technologies Inc.**, its bid of **Four Million Eight Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 4,888,000.00)** was found to be responsive; and

NOW, THEREFORE, WE, the Members of the Regular Bids and Awards Committee do hereby RESOLVE as it is hereby RESOLVED:

- a. That **PINNACLE TECHNOLOGIES INC.** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **Four Million Eight Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 4,888,000.00)**;
- b. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- c. That, a **Notice of Award (NOA)** be issued to **PINNACLE TECHNOLOGIES INC.**, upon adoption and approval of this BAC Resolution.
- d. To recommend the foregoing for the approval of the President of the Philippine Normal University

RESOLVED, during the Regular Meeting held on **December 6, 2023**, virtually via Zoom application.


**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-10-130-C**

  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair / End-user

  
**MARIE PAZ E. MORALES**  
Member


  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731

[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE TO PROCEED**

December 20, 2023

**Ms. SHARMAINE S. TAJANTAJAN**

**Pinnacle Technologies, Inc.**

#52 8<sup>TH</sup> Avenue West, Grace Park,

Caloocan City

8961-9999 / 0919-0775002

[sharmaine@schools.ph](mailto:sharmaine@schools.ph)


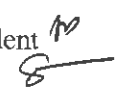
Dear Ms. Tajantajan:

The attached Purchase Order having been approved, notice is hereby given to **PINNACLE TECHNOLOGIES INC.** that work may commence for the project: **Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
BERT J. TUGA  
University President 

I acknowledge receipt of this Notice on (date of receipt) 01 - 05 - 24

Name of the Representative of the Bidder: SHARMAINE TAJANTAJAN

Authorized Signature: 



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0486
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 20, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

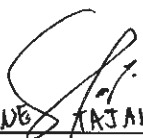
Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

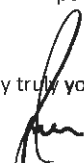
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
	units	<p><u>Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory</u></p> <p><b>Auveo-Interactive Board 65"</b></p> <p><b>Smart Classroom Software for Educators:</b> Interactive e-lessons and cloud resources with teacher account</p> <p><b>Educational Tools:</b> Provide Shape, Board, Timing, Geometry. Ruler, Line, Planet, Painting, Music, Periodic table. Function, Text, Media, Table, Mind map, Activities, Subject tools</p> <p><b>Educational Software:</b> Interactive Math Tutor Software</p> <p><b>Screen Cast:</b> Share screen via a link or code and remember device, connect with ease.</p> <p><b>File Sharing:</b> Quick display resources over any network. Transfer from TV to a device (Laptop. Tablet. Cellphone) and vice versa.</p> <p><b>Write Functions:</b> Normal Pen, Smart Brush, bamboo pen, pencil, texture pen, shape recognition, highlighter, search and magnify</p> <p><b>Graphic Functions:</b> Text, Rectangle, Ellipse, Triangle Rounded Corner, Parallelogram, trapezoid, polygon, segment, arc, Vector for Generic, Life, Power, Education</p> <p><b>Tools:</b> Multimedia Tools, Explorer, Screenshot, Searchlight, Screen Curtain, Magnifier, Software Keyboard, Timer, Ruler</p> <p><b>Page Management:</b> Saves all pages automatically, add, delete pages, upload pages to cloud, download pages</p> <p><b>Images Gallery:</b> Large collection of cliparts, Abstract, Agriculture, Animals, Insects, pets, wild animals, Art, Astrology, Background, black and white images</p> <p>Page 1 of 6</p>	12	₱79,000.00	₱948,000.00

(Total Amount in Words)	₱948,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
JHERMAINE S. ARJANTIN  
Signature over Printed Name of Supplier  
01-08-24  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available:

  
ARGEALIM P. PALABRICA  
Accountant III

ORS/BURS No.: 16-0112101-2023-12-2028  
Amount: ₱4,888,000





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0486
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 20, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><u>Supply, Delivery, and Some Installation in the</u> <u>Acquisition of Equipment of the Teaching</u> <u>Excellence Training Laboratory</u></p> <p><b>Lab Management:</b> 150 Simulation Experiments, Physics, Chemistry, Biology, music</p> <p><b>Devices Management System:</b> Fully control to any device, from the large screen or any authorized devices.</p> <p><b>Screen Specifications:</b> Tempered glass 40 point touch, 20 point writing IR Touch Screen 4K Ultra High Definition Anti-glare 55" Screen or higher 16:9 aspect ratio</p> <p><b>Hardware Specifications:</b> Centralized control system Integrated Mic, Speaker Easy Access Hardware Buttons 18 shortcut keys on both sides of touchscreen Front Connections: USB-C 2.0*1, USB-A 3.0*3, Touch USB-B 3.0*1 (for front HDMI In) , HDMI 2.0 in*1 (supports CEC, ARC)  Rear Connections: HDMI port, RJ45 IN*1, USB TOUCH-B 2.0*1(HDMI1/2/VGA/DP), HDMI IN*2 supports CEC, ARC, VGA IN, Audio In, TF Card, USB-A, Wifi Antenna HD Webcam Magnetic Pen on both sides of screen Warranty: 1 Year on parts, support and services</p> <p>Page 2 of 6</p>	Balance Forwarded		₱948,000.00

(Total Amount in Words)	₱948,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
CHARMAINE S. TRIAUD  
Signature over Printed Name of Supplier  
01-05-24  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available:

ARGEA LINN A. PALABRICA  
Accountant III

ORS/BURS No.: 06-01162101-2023-102-2008  
Amount: ₱ 4, 888, 000



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No.	<b>23-12-0486</b>
Address:	<b>#52 8TH Avenue West, Grace Park,</b>	Date:	<b>December 20, 2023</b>
	<b>Caloocan City</b>	Mode of Procurement:	<b>Public Bidding</b>
TIN :	<b>005-150-068-000</b>		

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

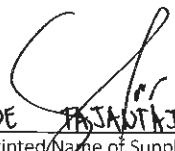
Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 45 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the</u></b> <b><u>Acquisition of Equipment of the Teaching</u></b> <b><u>Excellence Training Laboratory</u></b>	<b>Balance Forwarded</b>		<b>₱948,000.00</b>
		Warranty: Bidder(s) shall submit a certificate of warranty on parts and services during the bid opening. Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. With installation and configuration Delivery Period: 30-45 days			
	<b>units</b>	<b>Auveo - 65" SMART TV</b> Operating System: Android 11/Android TV or its equivalent Display Size/ Panel size: at least 65inch Preinstalled Applications: Google Playstore, Google Play, Chromecast or its equivalent Aspect ratio: 16:9 Viewing angle: H:178°/V:178° Max. resolution: 3840*2160 Ultra HD Resolution Max. brightness: Typ:250cd/m2 Input signal: 3 x HDMI 2.0 (HDCP 2.2); 2 x USB Ports, AV In, RJ45 LAN Port, SPDIF Out Optical; HDMI-ARC, HDMI-CEC CPU: Quad Core ARM Cortex-A55; Mali-G52 MC1 or its equivalent RAM / ROM: at least 2GB DDR3, 8GB Storage Wireless: Wi-Fi AC Connectivity: 2.4G/5G Wireless T2TR; Bluetooth USB: support:Video/Audio/Image Feature: Built in Screen Casting; ISDB Digital TV; Frameless Bezel Design or its equivalent Environmental: Energy Star Certified or its equivalent	<b>26</b>	<b>₱64,769.23</b>	<b>₱1,684,000.00</b>
<b>Page 3 of 6</b>					

(Total Amount in Words)	<b>₱2,632,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**CHARLAINE RAJABALAN**  
Signature over Printed Name of Supplier  
**01-05-24**  
Date

Very truly yours,

  
**BER J. TUGA**  
President

Funds Available:

  
**ARGEA LINN P. PALABRICA**  
Accountant III

ORS/BURS No.: \_\_\_\_\_  
Amount: \_\_\_\_\_



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	<b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No.	<b>23-12-0486</b>
Address:	<b>#52 8TH Avenue West, Grace Park,</b>	Date:	<b>December 20, 2023</b>
	<b>Caloocan City</b>	Mode of Procurement:	<b>Public Bidding</b>
TIN :	<b>005-150-068-000</b>		

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	<b>PNU Manila - Supply and Property Unit</b>	Delivery Term:	<b>within 45 calendar days</b>
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, and Some Installation in the</u></b> <b><u>Acquisition of Equipment of the Teaching</u></b> <b><u>Excellence Training Laboratory</u></b>	<b>Balance Forwarded</b>		<b>₱2,632,000.00</b>
		<b>Additional submittal documents during bid opening:</b> Warranty: Bidder(s) shall submit a certificate of three-year (3) warranty on parts and services and availability of spare parts within 10 years during the bid opening. Delivery Period: 30-45 days The Brand Manufacturer must be ISO 9001 and ISO 14001. Bidder shall submit the Manufacturer ISO certificates during the bid opening The Brand of the Smart TV must be in the Philippine market for more than Ten (10) years. (submit a certification form the Brand Manufacturer during the bid opening submission) Certification that the bidder employs at least 3 certified technicians from the offered brand. Bidder must submit certification of technician during the bid opening During bid opening, bidder(s) shall submit a brochure/catalog that indicate the brand name and model of the bid item/s. Bidder must submit during bid opening at least five sessions of PMS (Preventive Maintenance Service) and calibration services for the equipment and issue pertinent certificate. Winning bidder will deliver the smart tv to PNU campuses (Lopez Quezon, Agusan Del Sur, Alicia Isabela and Cadiz City, Negros Occidental) No installation is required			
	<b>units</b>	<b>ACER - X1326AWH DLP Projector</b> <b>Mininum specifications:</b> Resolution: WXGA (1,280 x 800)/WUXGA (1,920 x 1,200) Aspect Ratio: 16:10 (Native), 16:9; 4:3 (Supported) Contrast Ratio: 20,000:1 Displayable Colors: 1.07 Billion Colors Brightness: 4,000 ANSI Lumens (Standard)/3,200 ANSI Lumens (ECO) Projection Screen Size: 27" ~ 300" (75cm ~ 762cm) Projection Distance: 1.0m ~ 10.0m (3.3' ~ 32.7') Lamp Type: 220W Lamp Life: 6,000 Hours (Standard), 10,000 Hours (ECO), 15,000 Hours (Eco)*	<b>8</b>	<b>₱48,500.00</b>	<b>₱388,000.00</b>
<b>Page 4 of 6</b>					

(Total Amount in Words)	<b>₱3,020,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
**SHERMAINE TASHAUSTAN**  
Signature over Printed Name of Supplier  
**01-05-24**  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available:

  
**ARGEA LINAR PALABRICA**  
Accountant III

ORS/BURS No.: **06-0102101-2023-12-2008**  
Amount: **₱ 4,888,000**





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0486
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 20, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory</b>			<b>₱3,020,000.00</b>
		Audio: 3W Speaker x 1 Weight: 2.8 Kg (6.17 lbs) Remote Control: IR remote control Power Supply: AC input 100~240V, 50/60 Hz Power Consumption: 275Watts (Standard), 205 Watts (ECO), <0.5 Watts (Standby) Noise Level: 32 dBA (Standard), 24 dBA (ECO) Input Interface: Analog RGB/Component Video (D-sub) x 1, HDMI1.4a (Video, Audio, HDCP) x 1, PC Audio (Stereo mini jack) x 1, Composite Video (RCA) x 1 Output Interface: PC Audio (Stereo mini jack) x 1, DC Out (5V/1A, USB Type A) x 1, Analog RGB (D-sub) x 1, RS232 (D-sub) x 1  Control Interface: USB (Type A) x 1, share output port Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. Warranty: 1 Year on parts, support and services Submit warranty certificate during bid opening   No installation is required			
	unit	<b>VI - 103HD Video Conference Camera</b> HD video conference camera, 20X, full HD, high performance, wide viewing angle, ultra Zoom, supports HD 1080p60, H.265 code; HDMI + SDI + IP three-channel simultaneous outputs Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. Warranty: 1 Year on parts, support and services Submit warranty certificate during bid opening No installation is required	14	₱49,142.86	₱688,000.00
Page 5 of 6					

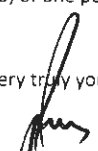
(Total Amount in Words)	₱3,708,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
CHARMAINE STRATAN  
Signature over Printed Name of Supplier  
01-05-24  
Date

Very truly yours,

  
BERT J. TUGA  
President

Funds Available:

  
ARGEA LINN PALABRICA  
Accountant III

ORS/BURS No.: 06-01162101-2023-12-2008  
Amount: ₱4,988,000



PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0486
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 20, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

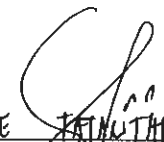
Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 45 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, and Some Installation in the Acquisition of Equipment of the Teaching Excellence Training Laboratory</b>	Balance Forwarded		₱3,708,000.00
	unit	<b>Acer Travelmate P2 14</b> <b>Minimum Requirements or its equivalent:</b> Operating System: Licensed Operating System 64-bit architecture compatible with the peripherals Processor: Cores: at least 10, Max turbo frequency: 4.60GHz, Cache: 12MB or its equivalent latest processor Memory: at least 16GB [2x 8GB] DDR4 Display/Graphics: at least 14.0" display FHD; integrated graphics or its equivalent Storage: at least 512GB SSD Audio: built-in stereo speaker Networking: WiFi 6, Gigabit Ethernet LAN I/O ports: USB Type-C, Thunderbolt 4, USB charging 5 V; 3A, DC-in port 15 or 20 V; 65 W or its equivalent Software: with licensed Microsoft Office 2021 Professional or latest Camera: at least 720p HD video at 30 fps with Temporal Noise Reduction, 1280 x 720 resolution Battery Life: Up to 10 hours or higher Warranty: 3 years on parts, support and services; 1 year on battery. Submit certificate of warranty during bid opening Bidder(s) shall submit a brochure/catalog that indicates the brand name and model of the bid item/s. Delivery Period: 30-45 days	20	₱59,000.00	₱1,180,000.00
Page 6 of 6					
			References: BAC Sol# GD 2023-10-130 PR# 23102133 Ref#10272007		

(Total Amount in Words) Four Million Eight Hundred Eighty-Eight Thousand Pesos and 00/100 only ₱4,888,000.00

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
01-08-24  
Date

Very truly yours,

  
BERT S. TUGA  
President

Funds Available:

ARGEA LINA A. PALABRICA  
Accountant III

ORS/BURS No.: 16-01102161-2023-12-2008  
Amount: ₱4,888,000



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**

Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**NOTICE OF AWARD**

November 24, 2023

**Mr. HAROLD MASILANG**  
**Pinnacle Technologies, Inc.**  
#52 8<sup>TH</sup> Avenue West, Grace Park,  
Caloocan City  
8961-9999 / 0917-3009361  
[hmasilang@schools.ph](mailto:hmasilang@schools.ph)

Dear Mr. Masilang,

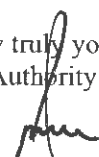
We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server** is hereby awarded to **PINNACLE TECHNOLOGIES INC.** pursuant of BAC Resolution No. **GD 2023-11-129-C** dated **November 24, 2023**.

Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **PINNACLE TECHNOLOGIES, INC.** in the total amount of **One Million Nine Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 1,988,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:


- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**₱ 99,400.00**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 596,400.00**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,  
By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President **10**

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative  
  
\_\_\_\_\_  
11/28/2023  
\_\_\_\_\_  
Date

*(All documents without PNU QS Stamp or Control Identifier are uncontrolled)*





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**BAC Resolution Declaring the Single Calculated and Responsive Bidder  
and Recommending Approval**

**Resolution No. GD-2023-11-129-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server** on October 20 – November 10, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Two Million Pesos and 00/100 only (Php 2,000,000.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **27 October 2023 (Friday)** at the 2<sup>nd</sup> Floor Library Multimedia Room, E.P. Dagot Hall, wherein only **Pinnacle Technologies, Inc.** attended the Conference.

**WHEREAS**, the Technology-Related Bids and Awards Committee (BAC) has scheduled and conducted the **Opening of Bids** on **10 November 2023 (Friday)** at 10:00 AM held at Rm. 103, Pedro Orata Hall;

**WHEREAS**, during the scheduled Opening of Bids, only one (1) bidder bought the Official Bid Documents, and submitted Bid, namely: **Pinnacle Technologies, Inc.** represented by Mr. Harold Masilang with email address of [hmasilang@schools.ph](mailto:hmasilang@schools.ph).

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
1 Lot – Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server (ABC: Php 2,000,000.00)	Pinnacle Technologies, Inc.	1,988,000.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Pinnacle Technologies, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, upon arithmetical computation, **Pinnacle Technologies, Inc.** Financial Bid amounting to **One Million Nine Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 1,988,000.00)** with an equivalent of 0.60% (**₱ 12,000.00**) variance from the ABC was then Ranked No. 1 (lone bidder);

**WHEREAS**, on **20 November 2023 (Monday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Pinnacle Technologies Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;

**WHEREAS**, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Pinnacle Technologies Inc.**, its bid of **One Million Nine Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 1,988,000.00)** was found to be responsive; and



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

**NOW, THEREFORE, WE**, the Members of the Regular Bids and Awards Committee do hereby **RESOLVE** as it is hereby **RESOLVED**:

- a. That **PINNACLE TECHNOLOGIES INC.** be declared as the Single Calculated Responsive Bid, in consideration of its total amount of Bid equal to **One Million Nine Hundred Eighty-Eight Thousand Pesos and 00/100 only (Php 1,988,000.00)**;
- b. That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- c. That, a **Notice of Award (NOA)** be issued to **PINNACLE TECHNOLOGIES INC.**, upon adoption and approval of this BAC Resolution.
- d. To recommend the foregoing for the approval of the President of the Philippine Normal University

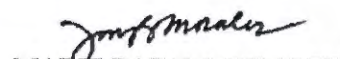
**RESOLVED**, during the Regular Meeting held on **November 24, 2023**, virtually via Zoom application.

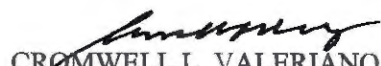
**BIDS AND AWARDS COMMITTEE**  
Resolution No. GD-2023-11-129-C


  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair

  
**MARIE PAZ E. MORALES**  
Member

  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member / End-user

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE TO PROCEED

December 04, 2023

**Mr. HAROLD MASILANG**  
**Pinnacle Technologies, Inc.**  
#52 8<sup>TH</sup> Avenue West, Grace Park,  
Caloocan City  
8961-9999 / 0917-3009361  
[hmasilang@schools.ph](mailto:hmasilang@schools.ph)

Dear Mr. Masilang,

The attached Purchase Order having been approved, notice is hereby given to **PINNACLE TECHNOLOGIES, INC.** that work may commence for the project: **Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the **Agreement** and in accordance with the **Implementation Schedule**.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 12 11 19 123

Name of the Representative of the Bidder: HAROLD MASILANG

Authorized Signature: 





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0470
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 4, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server</u></b>			
	lot	<b>Sangfor a-Server 1800 License Subscription</b> Specifications: <b>Software Virtualization</b> HCI based Virtual Edition, Next Generation Firewall license suite, Firewall, Bandwidth Management (URL filtering & Application Control), Intrusion Prevention System, Email Security, Sandboxing, Risk Assessment, Security Visibility, Basic Security Reporter included  <b>Server Virtualization</b> Compute Virtualization License per Physical CPU Server virtualization, HA, DRS, Automated Hot  <b>Storage Virtualization</b> Storage Virtualization License per Physical CPU Storage Virtualization, 2-3 copies, SSD read and write acceleration, data	1	₱1,988,000.00	₱1,988,000.00
Page 1 of 2			References: BAC Sol# GD 2023-10-129 PR# 23091995 Ref# 10244292		

(Total Amount in Words)	₱1,988,000.00
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERT J. TUGA**  
President

**HARON MASUAN**  
Signature over Printed Name of Supplier  
12/19/2023  
Date

Funds Available: ₱1,988,000	ORS/BURS No.: 12-056444-2023-11-1337 Amount: ₱1,988,000
<b>ARGEALINN P. PALABRICA</b> Accountant III	



**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-12-0470
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	December 4, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of the Continued Licensing of the Existing Hyper Converge Infrastructure (HCI) Server</u></b>  <b>Network Virtualization</b> Network Virtualization License per Physical CPU Network virtualization, Distributed Firewall, Drawable topology, visualized network, aSwitch, aRouter  <b>Other Requirements</b> Must be compatible to the existing HCI server (Sangfor a-Server 1800) One (1) year subscription 24x7 Customer Support on site, via phone, email, and remote accessing Activation should start after the last day of the expiration of the current license (January 15, 2024)			
			Balance Forwarded		1,988,000.00
				References: BAC Sol# GD 2023-10-129 PR# 23091995 Ref# 10244292	

Page 2 of 2

(Total Amount in Words) One Million Nine Hundred Eighty-Eight Thousand Pesos and 00/100 only **₱1,988,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,

**BERTU. TUGA**  
President

Signature over Printed Name of Supplier

12/19/2023

Date

Funds Available:

1,988,000

**ARGEALINN P. PALABRICA**  
Accountant III

ORS/BURS No.: 02-05266441-2023-12-1727  
Amount: ₱1,988,000



**PHILIPPINE NORMAL UNIVERSITY**  
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Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

## NOTICE OF AWARD

September 19, 2023

**Ms. SHARMAINE S. TAJANTAJAN**  
**Pinnacle Technologies, Inc.**  
#52 8<sup>TH</sup> Avenue West, Grace Park,  
Caloocan City  
8961-9999 / 0919-0775002  
[sharmaine@schools.ph](mailto:sharmaine@schools.ph)

Dear Ms. Tajantajan,

We are pleased to inform you that based on the findings of the Bids and Awards Committee, the contract for **Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center** is hereby awarded to **PINNACLE TECHNOLOGIES, INC.** pursuant of BAC Resolution No. GD 2023-07-085-C dated **September 19, 2023**.

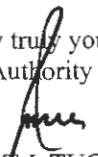
Thus, notice is hereby given that the contract for the procurement of the project will be awarded to **PINNACLE TECHNOLOGIES, INC.** in the total amount of **Two Million Four Hundred Eighty Thousand Pesos and 00/100 only (Php 2,480,000.00)**, subject to submission within ten (10) calendar days from receipt hereof a Performance Security, valid until the issuance of the Certificate of Acceptance, in any of the following forms:

- a. Cash or cashier's/manager's check issued by a universal or commercial bank or bank draft/guarantee or irrevocable letter of credit issued by a universal or commercial bank: provided, however, that it shall be confirmed or authenticated by a universal or commercial bank, if issued by a foreign bank equivalent to five percent (5%) of the total contract price (**₱ 124,000.00**); or
- b. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to thirty percent (30%) of the total contract price (**₱ 744,000.00**); or
- c. **Performance Securing Declaration (PSD)** as provided under the Revised Implementing Rules and Regulations of Republic Act No. 9184.

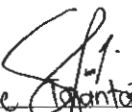
Failure to provide the performance security shall constitute ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,

By Authority of the Board of Regents:

  
**BERT J. TUGA**  
President

Conforme:

  
\_\_\_\_\_  
Name of Authorized Representative  
9-22-23  
\_\_\_\_\_  
Date

(All documents without PNU QS Stamp or Control Identifier are uncontrolled)





**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
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Tel. No. (02) 5317-1768 loc. 731  
[www.pnu.edu.ph](http://www.pnu.edu.ph) / [bac.secretariat@pnu.edu.ph](mailto:bac.secretariat@pnu.edu.ph)

**BAC Resolution Declaring the Lowest Calculated and Responsive Bidder and  
Recommending Approval**

**Resolution No. GD-2023-07-085-C**

**WHEREAS**, the Philippine Normal University, in compliance with RA 9184, posted/advertised the Invitation to Bid for the **Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center** on August 10-30, 2023 in PhilGEPS, PNU BAC Bulletin Board and PNU Website with an approved budget of **Two Million Five Hundred Thousand Pesos and 00/100 only (Php 2,500,000.00)** for the contract;

**WHEREAS**, a **Pre-Bid Conference** was conducted last **17 August 2023 (Thursday)** at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall, wherein two (2) interested bidders attended the Conference, namely:

1. Pinnacle Technologies Inc. represented by Sharmaine Tajantajan with email address of [sharmaine@schools.ph](mailto:sharmaine@schools.ph);
2. Pronet Systems Integrated Network Solution, Inc. represented by Mr. Jodel Roco with email address of [m.goyal@pronet.com.ph](mailto:m.goyal@pronet.com.ph).

**WHEREAS**, the Technology-Related Bids and Awards Committee (TRBAC) has scheduled and conducted the **Opening of Bids** on **30 August 2023 (Wednesday)** at 02:00 PM held at the 2nd Floor Library Multimedia Room, E.P. Dagot Hall;

**WHEREAS**, during the scheduled Opening of Bids, three (3) bidders bought the Official Bid Documents, and submitted Bid, namely: **Amellar Solutions, Pinnacle Technologies, Inc., and Pronet Systems Integrated Network Solution, Inc.;**

**WHEREAS**, the summary of the Opening of Bids are as follows:

LOT	Bidder/s	Bid Amount	Remarks
1 Lot – Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center (ABC: Php 2,500,000.00)	Amellar Solutions	2,498,000.00	Eligible
	Pinnacle Technologies, Inc.	2,480,000.00	Eligible
	Pronet Systems Integrated Network Solution, Inc.	1,621,768.00	Eligible

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Pronet Systems Integrated Network Solution, Inc.**, failed to comply and satisfy all the requirements specified in Section VII. Technical Specifications of the bidding documents;

**WHEREAS**, on **7 September 2023, Pronet Systems Integrated Network Solution, Inc.** was officially sent a Notice of Non-Compliance through email which was acknowledged receipt by the bidder on **8 September 2023;**

**WHEREAS**, during the detailed Technical Evaluation conducted by the Technical Representative, **Pinnacle Technologies, Inc.** complied and satisfied all the requirements specified in Section VII. Technical Specifications of the bidding documents;



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. (02) 5317-1768 loc. 731  
www.pnu.edu.ph / bac.secretariat@pnu.edu.ph

WHEREAS, upon arithmetical computation, **Pinnacle Technologies, Inc.** Financial Bid amounting to **Two Million Four Hundred Eighty Thousand Pesos and 00/100 only (Php 2,480,000.00)** with an equivalent of 0.80% (₱ 20,000.00) variance from the ABC was then Ranked No. 2;

WHEREAS, on **18 September 2023 (Monday)**, the BAC, Technical Working Group (TWG), and BAC Secretariat conducted the Post Qualification assessment on the submitted bids by **Pinnacle Technologies, Inc.**, and was found to have complied with all the requirements and conditions specified in the bidding documents and have passed the post qualification after having verified, validated and ascertained its bid documents;


WHEREAS, upon careful examination, verification and validation of the eligibility, technical and financial requirements submitted by **Pinnacle Technologies, Inc.**, its bid of **Two Million Four Hundred Eighty Thousand Pesos and 00/100 only (Php 2,480,000.00)** was found to be responsive; and

NOW, THEREFORE, WE, the Members of the Technology-Related Bids and Awards Committee do hereby RESOLVE as it is hereby RESOLVED:


- That **PINNACLE TECHNOLOGIES, INC.** be declared as the Lowest Calculated Responsive Bid, in consideration of its total amount of Bid equal to **Two Million Four Hundred Eighty Thousand Pesos and 00/100 only (Php 2,480,000.00)**;
- That we, the members of the Bids & Awards Committee (BAC), as per University Memorandum No. 125, Series of 2023 dated 22 June 2023, recommends to the Head of the Procuring Entity (HoPE) to award the Contract as detailed in this BAC Resolution; and
- That, a **Notice of Award (NOA)** be issued to **PINNACLE TECHNOLOGIES, INC.**, upon adoption and approval of this BAC Resolution.
- To recommend the foregoing for the approval of the President of the Philippine Normal University


RESOLVED, during the Regular Meeting held on **September 19, 2023**, virtually via Zoom application.

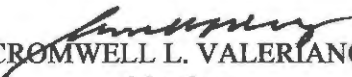
**BIDS AND AWARDS COMMITTEE**  
**Resolution No. GD-2023-07-085-C**

  
**ADONIS P. DAVID**  
Chair

  
**JENNY C. MALITAO**  
Member

  
**JOHN P. NATIVIDAD**  
Vice-Chair / End-user

  
**MARIE PAZ E. MORALES**  
Member


  
**CROMWELL L. VALERIANO**  
Member

  
**JOEMAR D. SAJONA**  
Member

  
**ROWENA R. HIBANADA**  
Member

  
**ROXAN C. ORMITA**  
Technical Representative

Approved by

  
**BERT J. TUGA**  
President



**PHILIPPINE NORMAL UNIVERSITY**  
The National Center for Teacher Education  
**BIDS AND AWARDS COMMITTEE**  
Taft Avenue, Manila  
Tel. No. 317-1768 loc. 738

## NOTICE TO PROCEED

September 28, 2023

**Ms. SHARMAINE S. TAJANTAJAN**  
**Pinnacle Technologies, Inc.**  
#52 8<sup>TH</sup> Avenue West, Grace Park,  
Caloocan City  
8961-9999 / 0919-0775002  
[sharmaine@schools.ph](mailto:sharmaine@schools.ph)


Dear Ms. Tajantajan,

The attached Purchase Order having been approved, notice is hereby given to **PINNACLE TECHNOLOGIES INC.** that work may commence for the project: **Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center** effective after the receipt of this notice.

Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to the Chair, Bids and Awards Committee.

Very truly yours,  
By Authority of the Board of Regents

  
**BERT J. TUGA**  
University President

I acknowledge receipt of this Notice on (date of receipt) 10-19-23

Name of the Representative of the Bidder: Sharmaine Tajantajan

Authorized Signature: 





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No. <b>23-09-0373</b>
Address: <b>#52 8TH Avenue West, Grace Park,</b>	Date: <b>September 28, 2023</b>
<b>Caloocan City</b>	Mode of Procurement: <b>Public Bidding</b>
TIN : <b>005-150-068-000</b>	

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

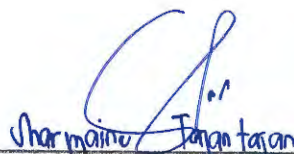
Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of</u></b> <b><u>Uninterruptible Power Supply (UPS) Unit</u></b> <b><u>for the Servers of PNU Data Center</u></b>			
	lot	<b>LEAYO LY-UR 1110</b> Specifications: <b>Power rating: 10kVA/9kW x 3 (Total of 30kVA)</b> <b>Input Parameters:</b> Nominal Input Voltage (V): 220VAC 1-Phase, 2 Wire Input Voltage Range (V): 120-290VAC Input Frequency Range (Hz): 40-70 Input Power Factor (kW/kVA): ≥0.99 @100% Load  <b>Battery:</b> Battery Blocks Per String: 16 Battery Charger Max. Power (A): 5.5A Battery cabinet Dimensions in rack arrangement - 438(W) x 690(D) x 88(H) Maintenance-free Sealed Lead-acid UPS Batteries  <b>Output Parameters:</b> Nominal Output Voltage: 220Vac (1-phase) Output Voltage Tolerance: ±1%  <i>Page 1 of 6</i>	1	₱2,480,000.00	₱2,480,000.00
				<i>References:</i> BAC Sol# GD 2023-07-085 PR# 23-07-1512 Ref# 10028286	

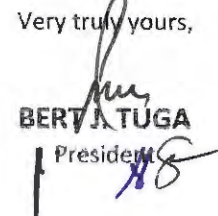
(Total Amount in Words)	<b>₱2,480,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
**10-19-23**  
Date

Very truly yours,

  
**BERT A. TUGA**  
President

Funds Available: <b>2,480,000</b>	ORS/BURS No.: <b>06-05206441-2023-09-0905</b> Amount: <b>2,480,000.00</b>
<b>ARGEA LINN P. PALABRICA</b> Accountant III	





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-09-0373
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	September 28, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

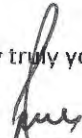
Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of</u></b> <b><u>Uninterruptible Power Supply (UPS) Unit</u></b> <b><u>for the Servers of PNU Data Center</u></b>  Output Frequency Range: 50/60Hz ±0.05Hz (battery mode) Output THDV: ≤3% for Linear loads & ≤5% for Non-linear loads Overload Capacity: 50S @ 105~125% load; 25S @ 125~150% load; 0.3S @ >150% load Crest Factor: 3:1 Output waveform: Pure sinewave  <b>Efficiency:</b> Online Mode Efficiency: 94% ECO Mode Efficiency: Up to 96% - 99%  <b>Dimensions and Weight:</b> Dimensions (W x D x H) in mm Rack Mounted Arrangement: 400x482.6x88 Weight (kg): at least 9  <b>Back Up Time (min):</b> At 100% load: 10 mins  <i>Page 2 of 6</i>	Balance Forwarded		₱2,480,000.00
					BAC Sol# GD 2023-07-085 PR# 23-07-1512 Ref# 10028286

(Total Amount in Words)	₱2,480,000.00
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Conforme:

  
Signature over Printed Name of Supplier  
10-19-23  
Date

Very truly yours,  
  
BERT J. TUGA  
President

Funds Available: 2,480,000	ORs/BURS No.: Amount:
ARGEA LINN P. PALABRICA Accountant III	





**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No. <b>23-09-0373</b>
Address: <b>#52 8TH Avenue West, Grace Park, Caloocan City</b>	Date: <b>September 28, 2023</b>
TIN : <b>005-150-068-000</b>	Mode of Procurement: <b>Public Bidding</b>

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center</u></b>  At 50% load: 20 mins Battery Type: (built-in battery module of 16 block X 12V X 9AH)  <b>Key Specification:</b> Nosie at 1 m (dBA): 55 Relative humidity 20-90% and temperature 0-40 °C (non-condensing) Equipped with voltage surge protection function and strong anti-interference capability Multiple audible and visual alarms instantly alert for critical issues 19inch standard cabinet compliant Support Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC Support SNMP management and network management Zero transition time between mains supply mode and battery mode  <b>Electrical:</b> UPS Input Panel UPS Output Panel ECB 60AT, 230V		<b>Balance Forwarded</b>	<b>₱2,480,000.00</b>

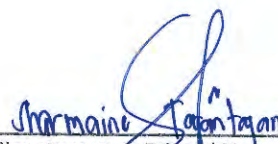
Page 3 of 6

References:  
BAC Sol# GD 2023-07-085  
PR# 23-07-1512  
Ref# 10028286

(Total Amount in Words)	<b>₱2,480,000.00</b>
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In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

  
Signature over Printed Name of Supplier  
**10 - 19 - 23**  
Date

Very truly yours,

  
**BERT A. TUGA**  
President

Funds Available: **2,480,000.00**

  
**ARGEA LINA P. PALABRICA**  
Accountant III

ORS/BURS No.:  
Amount:





PURCHASE ORDER  
Philippine Normal University  
Agency

Supplier:	PINNACLE TECHNOLOGIES, INC.	P.O. No.	23-09-0373
Address:	#52 8TH Avenue West, Grace Park, Caloocan City	Date:	September 28, 2023
TIN :	005-150-068-000	Mode of Procurement:	Public Bidding

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	PNU Manila - Supply and Property Unit	Delivery Term:	within 30 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center</u></b>			
		<b>Wires and Cables:</b> 14.0 sq. mm THHN 8.0 sq. mm THHN 14.0 sq. mm THHN 16 Ampere Connector Type Twist lock 3.5 sq. mm 3-conductor royal cord			
		<b>Roughing-Ins Materials:</b> Cable tray & PVC Pipes Pull boxes Hanger and Support Consumable materials Mobilization / Demobilization			
		<b>Services and Commissioning:</b> Health & Safety Project Documentation / Project Management			
		Page 4 of 6			
			Balance Forwarded		₱2,480,000.00
				References: BAC Sol# GD 2023-07-085 PR# 23-07-1512 Ref# 10028286	

(Total Amount in Words)	₱2,480,000.00
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Conforme:

Signature over Printed Name of Supplier

Date

Very truly yours,

BERT J. TUGA  
President

Funds Available: 2,480,000	ARS/LINER, PALABRICA Accountant III	ORS/BURS No.: Amount:
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**PURCHASE ORDER**  
Philippine Normal University  
Agency

Supplier: <b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No. <b>23-09-0373</b>
Address: <b>#52 8TH Avenue West, Grace Park,</b>	Date: <b>September 28, 2023</b>
<b>Caloocan City</b>	Mode of Procurement: <b>Public Bidding</b>
TIN : <b>005-150-068-000</b>	

Gentlemen:

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Place of Delivery: <b>PNU Manila - Supply and Property Unit</b>	Delivery Term: <b>within 30 calendar days</b>
Date of Delivery: _____	Payment Term: _____

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b><u>Supply, Delivery, Installation and Configuration of</u></b> <b><u>Uninterruptible Power Supply (UPS) Unit</u></b> <b><u>for the Servers of PNU Data Center</u></b>	<b>Balance Forwarded</b>		<b>₱2,480,000.00</b>
		Testing and Commissioning for electrical works Labor Cost & Engineering			
		<b>Scope of Works and Additional Documents:</b> Supply and installation of roughing ins materials and hanger support (IMC Pipes and Cable tray) from the electrical tapping Supply and installation of Panel Boards and ECB's Supply and installation of electrical wires and cables base on electrical standards Supply and installation of 3 x 10 KVA UPS to be configure at parallel to capacity at 30 KVA Cable pulling, termination and tagging of all cables Testing and Commissioning of the UPS System Training and knowledge transfer on the end user Submission of project documentation The bidder shall have PCAB license General Building Category C and D with Specialty -Electrical Work and Communication Facilities Winning bidder shall submit an as-built-plan for the electrical system signed and sealed by the Professional Electrical Engineer with load computation.			
		Page 5 of 6		References: BAC Sol# GD 2023-07-085 PR# 23-07-1512 Ref# 10028286	

(Total Amount in Words)	<b>₱2,480,000.00</b>
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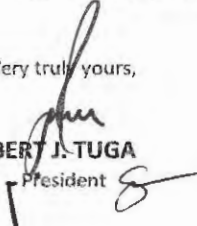
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Conforme:

  
Signature over Printed Name of Supplier

10-19-23  
Date

Very truly yours,

  
**BERT J. TUGA**  
President

Funds Available: **2,480,000**

  
**ARGEA LINA PALABRICA**  
Accountant III

ORS/BURS No.: \_\_\_\_\_  
Amount: \_\_\_\_\_





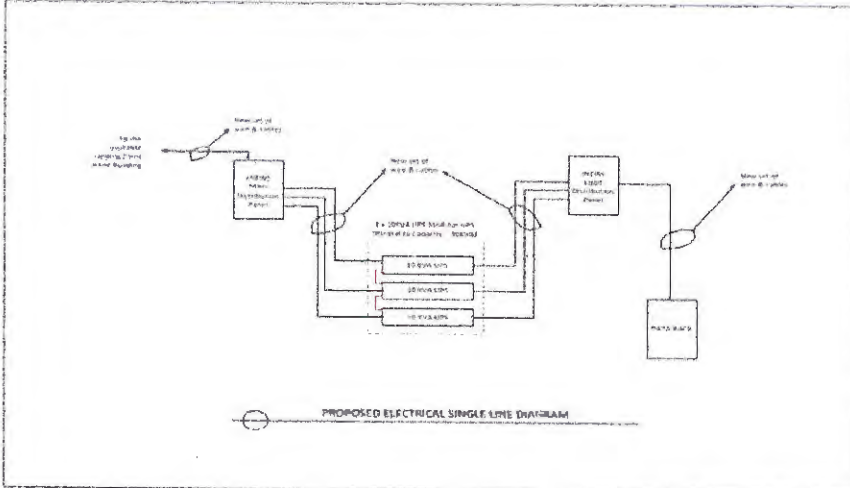
**PURCHASE ORDER**  
Philippine Normal University  
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Supplier: <b>PINNACLE TECHNOLOGIES, INC.</b>	P.O. No. <b>23-09-0373</b>
Address: <b>#52 8TH Avenue West, Grace Park,</b>	Date: <b>September 28, 2023</b>
<b>Caloocan City</b>	Mode of Procurement: <b>Public Bidding</b>
TIN : <b>005-150-068-000</b>	

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Date of Delivery:	Payment Term:

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>Supply, Delivery, Installation and Configuration of Uninterruptible Power Supply (UPS) Unit for the Servers of PNU Data Center</b>	<b>Balance Forwarded</b>		<b>₱2,480,000.00</b>
<div><p>PROPOSED ELECTRICAL SINGLE LINE DIAGRAM</p></div> <div>References: BAC Sol# GD 2023-07-085 PR# 23-07-1512 Ref# 10028286</div> <div>Page 6 of 6</div>					

(Total Amount in Words)	<b>Two Million Four Hundred Eighty Thousand Pesos and 00/100</b>	<b>₱2,480,000.00</b>
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Conforme:

  
Signature over Printed Name of Supplier  
**10-19-23**  
Date

Very truly yours,

  
**BERT A. TUGA**  
President

Funds Available: **2,480,000.00**

  
**ARGEA LINN PALABRICA**  
Accountant III

ORS/BURS No.: \_\_\_\_\_  
Amount: \_\_\_\_\_