



Bid Notice Abstract

Request for Quotation (RFQ)

Reference Number 12966852
Procuring Entity PALAWAN STATE UNIVERSITY
Title CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS, PSU
EL NIDO CAMPUS, EL NIDO, PALAWAN
Area of Delivery Palawan

Solicitation Number:	PSU-GOODS-RFQ-SVP-2026-025	Status	Active
Trade Agreement:	Implementing Rules and Regulations	Associated Components	6
Procurement Mode:	Negotiated Procurement - Small Value Procurement (Sec. 53.9)	Bid Supplements	0
Classification:	Civil Works	Document Request List	0
Category:	Construction Materials and Supplies	Date Published	07/05/2026
Approved Budget for the Contract:	PHP 1,500,000.00	Last Updated / Time	07/05/2026 00:00 AM
Delivery Period:	15 Day/s	Closing Date / Time	11/05/2026 17:00 PM
Client Agency:			
Contact Person:	LILYBETH JOY MAE AGUM CUYO Administrative Officer V / Procurement Office Tinguiban Heights, Puerto Princesa City Palawan Philippines 5300 63-48-4330488 upo@psu.palawan.edu.ph		
Description Please see attached documents			

Created by LILYBETH JOY MAE AGUM CUYO
Date Created 06/05/2026

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Date: May 6, 2026

PRICE QUOTATION

Sir:

You are hereby invited to quote your price for article(s) listed below. Please submit your quotation to the Office of the President, Palawan State University, Puerto Princesa City, or to his authorized representative on or before. 11-May-26

LILYBETH JOY MAE A. CUYO
 Director, Procurement Office

LIST OF QUOTATIONS					
Item No.	Qty.	Unit	Description of Articles	Unit Price	Total Amount
PERMITS AND LICENSING					
1	1	Lot	Fencing Permit		
OCCUPATIONAL SAFETY AND HEALTH					
1	90	Day	Safety Officer		
2	90	Day	First Aider		
FIELD OFFICE AND TEMPORARY FACILITIES					
1	80	ln.m	6'x8' polyethylene sackolin		
2	80	bd.ft.	2" x 2" x 10ft coco lumber		
3	60	bd.ft.	2" x 3" 10ft coco lumber		
4	1	Kilogram	2" CWN		
5	1	Kilogram	3" CWN		
6	1	Piece	Flush Toilet ceramic bowl		
7	1	Piece	Vertical Purifying Septic Tank (1000 Liters)		
8	3	Piece	4" dia x 3m uPVC pipe s600		
9	7	Piece	4" dia PVC elbow (45)		
10	5	Piece	3" dia (90°) pvc elbow		
11	3	sq.ft	Project Billboard		
PERSONAL PROTECTIVE EQUIPMENT					
1	8	Pair	Safety Shoes (Steel Toe)		
2	8	Unit	Safety Helmet (Hard Hat)		
3	4	Set	Safety Harness (Heavy Duty)		
4	4	Piece	Safety Goggles (Heavy Duty)		
5	8	Pair	Safety Gloves (Heavy Duty)		
6	1	Set	First Aid Kit Tool		
7	1	Lot	Safety Signages		
SITE PREPARATION WORKS					
1	50	Roll	0.8 mm #45, String monoline nylon		
2	280	bd.ft.	2" x 2" x 10' Coco lumber		
3	20	Kilogram	Assorted Common wire nail		
4	24	hr	Excavator (operator w/ spotter)		
EARTHWORKS					
1	3.00	cu. m.	3/4" Gravel (gravel bedding)		
2	16.11	cu. m.	Excavation		
3	3.00	cu. m.	Filling & Compaction		
REINFORCING STEEL WORKS					
1	2160.00	Kilogram	10mm Ø Reinforcing Steel Bar, Grade 40		
2	3200.00	Kilogram	12mm Ø Reinforcing Steel Bar, Grade 40		
3	85.00	Kilogram	G.I. Tie Wire		
FORMWORKS AND SCAFFOLDINGS					
1	15.00	Piece	12mm thk Phenolic Board		
2	150.00	bd.ft.	2" x 2" 10' Coco Lumber		
3	25.00	Kilogram	Assorted Common wire nail		
CONCRETE WORKS					
1	261.00	Bag	40 kg Portland Cement		
2	15.00	cu. m.	Screen Sand		
3	29.00	cu. m.	3/4" Washed gravel		
WIRE WORKS					
1	18	Roll	2.3 mm, 50 m, Galvanized Double Twist Barbed Wire		
2	26	Roll	47" x 37yd, Hog Wire		
3	321	Kilogram	10mm Ø, Plain Round Bar		

PRICE QUOTATION

You are hereby invited to quote your price for article(s) listed below. Please submit your quotation to the Office of the President, Palawan State University, Puerto Princesa City, or to his authorized representative on or before 11-May-26

[illegible]**CONTRACTOR**



Republic of the Philippines
PALAWAN STATE UNIVERSITY
Puerto Princesa City

VISION

An internationally recognized university that provides relevant and innovative education and research for lifelong learning and sustainable development.

MISSION

Palawan State University is committed to upgrade people’s quality of life by providing education opportunities through excellent instruction, research and innovation, extension, production services, and transnational collaborations.

TERMS OF REFERENCE (TOR)

For the Project

CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS, PSU El Nido Campus, El Nido, Palawan with an Approved Budget of

PHP 1, 500,000.00 FUND 164, FY 2026

Approved Budget: ₱ 1,500,000.00
Source of Fund: Fund 164
Proponent: PSU El Nido Campus
El Nido, Palawan
Client: Faculty, Staff and Student

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I. INTRODUCTION

1. Background and Overview

The Palawan State University is undertaking a perimeter fence project to enclose the property of PSU El Nido Campus. This initiative aims to secure and clearly define the boundary of PSU El Nido, ensuring the protection of the campus and its facilities from unauthorized access.

This Terms of Reference outlines the requirements for the execution of the project Construction of Perimeter Fencing Of 4.9 Hectares Land Of El Nido Campus, ensuring high-quality work standards, from legitimate and competitive contractors.

2. Project Benefits

The Project improves campus security, protects facilities, and clearly defines property boundaries, creating a safer and more organized environment for students, faculty and staff.

3. Project Description

The project consists of procurement for the Construction of Perimeter Fencing Of 4.9 Hectares Land of El Nido Campus amounting to ₱ 1,500,000.00

4. Project Objective

The objective of this project is to secure and clearly define the boundaries of PSU El Nido Campus by constructing a perimeter fence, thereby protecting campus facilities, controlling access, and ensuring the safety.

II. SCOPE OF WORK

General Requirement

The project includes constructing a perimeter fence for PSU El Nido Campus, covering materials, labor, equipment to ensure a secure and clearly defined boundary at PSU El Nido Campus.

For any inquiries or clarifications regarding all item of works, it is essential to communicate directly with the Project Management Office through proper documentation, encompassing both written and verbal channels. This approach ensures a clear and consistent understanding of project requirements and promotes effective project management.

All needed materials must receive prior approval from the Project Management Office through formal written documentation before purchasing, installation, application, fabrication can proceed.

COMPONENT 1: Bill of Materials and Cost Estimates Summary

The project includes the supply and delivery of the needed materials and labor for the Construction of Perimeter Fencing Of 4.9 Hectares Land of El Nido Campus at PSU El Nido as specified in the purchase request. The selected contractor shall supply and deliver the materials and labor with the technical specifications enumerated in the table below:

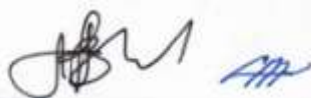
Bill of Materials and Cost Estimates (Total Budget Cost Php 1,500,000.00)

Stock/ Prop No.	ITEMS	Qty	Unit
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PERMITS AND LICENSING			
	Fencing Permit	1.00	lot
OCCUPATIONAL SAFETY AND HEALTH			
	Safety Officer	90.00	day
	First Aider	90.00	day
FIELD OFFICE AND TEMPORARY FACILITIES			
	6'X8' polyethylene sackolin	80.00	ln.m
	2" x 2"x 10ft coco lumber	80.00	bd.ft
	2" x 3"x 10ft coco lumber	60.00	bd.ft
	2" CWN	1.00	kg
	3" CWN	1.00	kg
	Flush toilet ceramic bowl	1.00	pc
	Vertical Purifying Septic Tank (1000 Liters)	1.00	pc
	4" dia x 3m uPVC pipe s600	3.00	pc
	4" dia. Pvc elbow (45°)	7.00	pc
	3" dia. (90°) pvc elbow	5.00	pc
	Project billboard	3.00	sq.ft
PERSONAL PROTECTIVE EQUIPMENT			
	Safety Shoes (Steel Toe)	8.00	pair
	Safety Helmet (Hard Hat)	8.00	unit
	Safety Harness (Heavy Duty)	4.00	set
	Safety Goggles (Heavy Duty)	4.00	pc
	Safety Gloves (Heavy Duty)	8.00	pair
	Firs Aid Kit Tool	1.00	set
	Safety Signages	1.00	lot
SITE PREPARATION			



WORKS			
	0.8 mm #45, String monoline nylon	50.00	roll
	2" x 2"x 10' Coco Lumber	280.00	bd.ft
	Assorted Common Wire Nail	20.00	kg
	Excavator (operator w/ spotter)	24.00	hr
EARTHWORKS			
	3/4" Gravel (gravel bedding)	3.00	cu.m
	Excavation	16.11	cu.m
	Filling & Compaction	3.00	cu.m
REINFORCING STEEL WORKS			
	10mm Ø Reinforcing Steel Bar, Grade 40	2160.00	kg
	12mm Ø Reinforcing Steel Bar, Grade 40	3200.00	kg
	G.I. Tie Wire	85.00	kg
FORMWORKS AND SCAFFOLDINGS			
	12mm thk Phenolic Board	15.00	pc
	2" x 2"x 10' Coco Lumber	150.00	bd.ft
	Assorted Common Wire Nail	25.00	kg
CONCRETE WORKS			
	40 kg Portland Cement	261.00	bag
	Screen Sand	15.00	cu.m
	3/4" Washed gravel	29.00	cu.m
WIRE WORKS			
	2.3 mm, 50 m, Galvanized Double Twist Barbed Wire	18.00	roll
	47" x 37yd, Hog Wire	26.00	roll
	10mm Ø, Plain Round Bar	321.00	kg
	16mm Ø, Plain Round Bar	2,715.00	kg
	#14 G.I. Tie Wire	10.00	kg



PAINTING WORKS			
	QDE Paint, Flat (White) 3 coats	15.00	gal
	lacquer thinner	5.00	gal
	flat latex paint primer (white)	15.00	gal
	latex paint semi gloss top coat	30.00	gal
	skim coat	40.00	bag
	sanding paper # 120	100.00	pc
	sanding paper # 240	100.00	pc
	paint roller 4 inch	4.00	pc
	paint brush 2 inch	6.00	pc
	roller tray	4.00	pc
Others			
	Labor Cost (20.77%)	1.00	lot
	Equipment Rental (4.80%)	1.00	lot
	Overhead, Contingencies, and Miscellaneous (15%)	1.00	lot
	Contractor's Project (10%)	1.00	lot
	VAT (5%)	1.00	lot

CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS

COMPONENT 2: After-Sales and Warranty

A minimum of One-year warranty for the Materials shall be provided by the vendor/provider with on-call respondent until the end of warranty period.

III. DELIVERY

The provider shall deliver within 15 calendar days all the items specified in the purchase request upon receipt of purchase order form the Supply Office.

IV. PAYMENT TERMS

APPROVED BUDGET FUND 164: (PhP1,500,000.00)

For the CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS, PSU El Nido Campus, El Nido, Palawan, payment will be made in full after the final acceptance of the project.

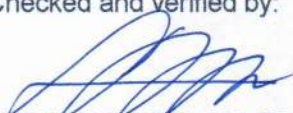
(NOTHING FOLLOWS)



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PALAWAN STATE UNIVERSITY
PROJECT MANAGEMENT OFFICE
Plans and Design Services
City of Puerto Princesa
SEPTEMBER, 2025



SCOPE OF WORK
(By Contract)

Project: **CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS**
Location: PSU EL NIDO CAMPUS
Owner: PALAWAN STATE UNIVERSITY

TECHNICAL SPECIFICATION:

The set of Specifications shall govern the methods of construction and the kind of materials to be used for the **CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS**, Municipality of El Nido, Palawan.

The plans, detail drawings and these specifications shall consider as complementing each other, so that what is mentioned or shown in one, though not mentioned or shown in the other, shall be considered as appearing on both. Any conflict to be found between the two should be referred to the Project In-charge or the Project Management Office for clarification & resolution.

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- 1.0 GENERAL REQUIREMENTS
 - 1.a PERMITS AND LICENSING
 - 1.b OCCUPATIONAL SAFETY AND HEALTH
 - 1.c FIELD OFFICE AND TEMPORARY FACILITIES
 - 1.d PERSONAL PROTECTIVE EQUIPMENT
- 2.0 SITE PREPARATION WORKS
- 3.0 EARTHWORKS
- 4.0 REINFORCING STEEL WORKS
- 5.0 FORMWORKS AND SCAFFOLDINGS
- 6.0 CONCRETE WORKS
- 7.0 WIRE WORKS
- 8.0 PAINTING WORKS

GENERAL CONDITIONS:

All parts of the construction shall be finished with first-class workmanship to the fullest talent and significance of the plans for this scope of work and to the satisfaction of the Project Management Office, and to the standards set by the Palawan State University.

The construction shall also conform to all the requirements of the National Building Code, as well as the local rules and regulations of Municipality of El Nido, Palawan and shall be accomplished using sound engineering practice and procedures.

The Contractor must employ only competent and efficient architects, engineers and construction supervisors that are duly licensed to practice their respective professions.

The Contractor shall be required to prepare As-built Drawings to be submitted to the Project Management Office for proper documentations

It is imperative that the drawings and specification documents remain in complete alignment throughout the project. In the event of any discrepancies or conflicts between the two, it is the responsibility of all project team members and contractor to promptly notify the Project Management Office for resolution and confirmation.

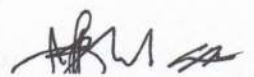
For any inquiries or clarifications regarding all item of works, it is essential to communicate directly with the Project Management Office through proper documentation, encompassing both written and verbal channels. This approach ensures a clear and consistent understanding of project requirements and promotes effective project management.

1.0 GENERAL REQUIREMENTS

1.A Permits and Licensing

Permits and licensing costs specified herein are part of the contract price, covering the expenses required to comply with the Office of the Building Official in obtaining and securing the **Fencing Permit**. The Contractor shall be responsible for processing, compiling, and submitting all necessary documents to the Local Building Officials. This University, through the Chief Administrative Office, authorizes the Contractor by way of a Special Power of Attorney to process these documents, including the tax clearance, tax declaration, and certified title from the Registry of Deeds, **if applicable, depending on the requirements of the Building Official of the municipality.**

Additional documents needed by the Office of the Building Official, including Structural Analysis, is also covered by the Contractor through the contract price. Professional engineers and architects will sign and seal the necessary documents, with associated compensation covered by the contractor.



The Project Management Office can share PDF files of the drawings for permit application but cannot provide the raw CAD files to the Contractor. The Project Management Office is not tasked with signing and sealing drawings for the said permit.

The permit must be submitted to the Project Management Office within one month of project commencement. Any revisions or additional remarks from the Office of the Building Officials should be coordinated with the University Engineer or the Project Management Office to address concerns.

1.B Occupational Safety and Health

The Contractor shall put up and continuously maintain adequate safety standards including the provision of a competent licensed safety engineer and license first aider that shall prevent undue loss, damages and injury on workers or loss of properties. First aid services should always be readily available at the construction site.

1.C Field & Temporary Facilities

Temporary structures, e.g. bunkhouse/storage shed, temporary barriers, shall be provided by the contractor for its workers, staff, and for construction materials storage and fabrication.

The temporary enclosure is required to keep unauthorized persons from entering the construction site, using a polyethylene sackolin and tied properly in 2" x 2"x 10ft coco lumber & 2"x3"x 10ft. coco lumber. The support must be embedded at the ground surface level and not easily pulled out.

Refer to the plans of temporary facility for reference. Use the following materials for the temporary facility:

- 6'X8' polyethylene sackolin
- 2" x 2"x 10ft coco lumber
- 2" x 3"x 10ft coco lumber
- 2 inches CWN
- 3 inches CWN
- Flush toilet ceramic bowl
- Vertical Purifying Septic Tank (1000 Liters)
- 4" dia x 3m uPVC pipe s600
- 4" dia. Pvc elbow (45°)
- 3" dia. (90°) pvc elbow
- Project billboard

Upon the project completion, *all materials* from the temporary structures for this item, including but not limited to plywood drywall, roofing G.I. sheets, barriers, barricades, blue sackolin, and coco lumbers shall be removed by the



contractor, thoroughly cleaned and properly turned over to PSU authorities and will become the property of the Palawan State University.

1.D Personal Protective Equipment

Availability of Personal Protective Equipment (PPE) at site and wearing of safety gadgets at all times while working must be observed to maintain zero accident during the construction phase and to adhere to the requirements of COSH:

- Safety Shoes (Steel Toe)
- Safety Helmet (Hard Hat)
- Safety Harness (Heavy Duty)
- Safety Goggles (Heavy Duty)
- Safety Gloves (Heavy Duty)
- First Aid Kit Tool
- Safety Signages

2.0 SITE PREPARATION WORKS

PART I-GENERAL

1.0 SCOPE

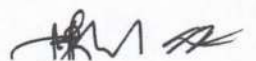
This section includes all labor, materials, equipment and the performance of all operations necessary for the clearing, grubbing, stripping and all other site preparation work such as layout & staking and other indicated on this specification.

Clearing and grubbing shall be conducted in accordance with the applicable Local regulations and Acts. The PMO office and/or the Project Engineer will establish the limits of work and designate all trees, shrubs, plants and other things to remain.

1.1 PROTECTION

1.1.1 PROTECTION OF EXISTING STRUCTURES, UTILITIES AND TREES:

- a. BENCH MARKS** : Maintain all bench marks, monuments, and other reference points; if disturbed, Contractor must replace at no extra cost to the Palawan State University.
- b. PROTECTION** : Protect existing buildings and other structures which are indicated to remain, from damage, and repair damage caused by this work at no additional cost to the Owner.
- c. UTILITY LINES** : Existing utility lines indicated or locations of which are made known to the Contractor prior to excavation, and that which are indicated to be retained, as well



as utility lines constructed during excavation operations, shall be protected from damage during excavation operations, shall be protected from damage during excavating and backfilling, and if damaged, shall be repaired at no extra cost. Site survey shall be conducted by the Contractor to acquaint with existing utility lines. Proper measures shall be taken and immediate information forwarded to the Project Management Office when utility lines are encountered within the area of operation.

1.2 DISPOSAL OF CLEARED AND GRUBBED MATERIALS

Logs, stumps, roots, brush, rotten wood, and other refuse resulting from the clearing and grubbing operations shall be disposed of by removing from the site at the Contractor's expense. Materials shall be disposed outside the limits of the project site.

PART II – EXECUTION

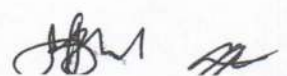
2.1 CLEARING AND GRUBBING

2.1.1 CLEARING: Clearing shall be felling, trimming, and cutting trees into sections, and disposal of all debris. Clearing operations shall be so conducted as to prevent damage by falling trees to trees left standing, to existing structures, or to installations under construction. Trees, stumps, roots, brush and other vegetation in areas to be cleared shall be cut off below the original ground surface except trees and vegetation which are directed to be left standing.

2.1.2 GRUBBING: Grubbing shall consist of removal and disposal of stumps, roots larger than 76 mm in diameter, and matted roots from the designated grubbing areas. These materials, together with other organic or metallic debris not suitable for foundation purposes, shall be excavated and removed to a depth of not less than 457 mm below finished grade. Depressions made by grubbing shall be filled with suitable soil and to make surface conform to original adjacent soil surface.

2.1.3 TREE REMOVAL: Where directed, trees and stumps shall be removed from areas outside those areas designated for clearing and grubbing. This work shall include felling such trees and removal of their stumps and roots specified above. This provision is only in effect if there are trees which will be decided to be removed.

2.1.4 STRIPPING: Turf, weeds, and topsoil shall be stripped to a depth of 152 mm in areas where buildings, walks, streets and other paving is shown. In other areas to be excavated or graded, topsoil which is suitable for subsequent top soiling operations under this Contract, and is approved for quality shall be stripped to full depth of topsoil and conserved, except where new grades are to be the same as or not over 152 mm above existing grades. Topsoil which is suitable for reuse shall be placed in storage piles convenient to area that is subsequently to receive application of topsoil. Topsoil shall be kept separate from other excavated materials and shall be free from roots, stones larger than 51 mm, and other undesirable material that would interfere planting.



2.2 LAYOUT AND STAKING

Contractor shall be responsible for laying out the site and fencing and setting stakes in complete conformity with the drawings.

The fencing should adhere to the National Building Code of the Philippines and local zoning regulations. The Project Engineer and/or the Design Architect of the PMO should be consulted prior to the layout and staking.

The fencing lines shall be staked out and all lines and grades be accurately established before any excavation is started. The following materials to be used for layout and staking are the following:

- 0.8 mm #45 String monoline nylon
- 2" x 2"x 10' Coco Lumber
- Assorted Common Wire Nail

2.3 EQUIPMENT RENTAL

This item of work includes the equipment rental of excavator with operator and spotter for clearing and grubbing, in order to do the work properly & efficiently.

For the Equipment Rental of Excavator:

The equipment rental for Excavator per day should include the compensation of the following:

- Equipment Operator
- Spotter (guide for the Operator)

The use of excavator includes the excavation of foundation, septic tank, cistern tank, and the backfilling of the excavated soil after the concreting of foundation.

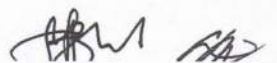
3.0 EARTHWORKS

PART I-GENERAL

1.1 SCOPE

This section includes all materials, labor, equipment and the performance of all operations in connection with the excavation, filling/backfilling as indicated in drawings and this specification.

1.2 GENERAL REQUIREMENTS



1.2.1 PROTECTION OR REMOVAL OF UTILITY LINES: Existing utility lines that are indicated on locations which are made known to the Contractor prior to excavating and trenching operations shall be protected from damage during excavating. Trenching and backfilling and if damaged, shall be repaired by the Contractor at his own expense. When utility lines that are to be removed are encountered within the area of operations, the Contractor shall issue notices with ample time for the necessary measures to be taken to prevent interruption of the service.

PART II – PRODUCTS

2.1 MATERIALS

2.1.1 SATISFACTORY FILL MATERIALS: Shall include materials classified as: $\frac{3}{4}$ " gravel

PART III – EXECUTION

3.1 EXCAVATING

All excavation shall be made to the grade indicated in the drawings. Where the fencing is covered with any kind of fill, the excavation for footings shall be made deeper until the specified safe bearing capacity of the soil is reached.

Execute all excavations needed as per plan to a given or stipulated depths. Excavated materials shall be piled on one side only of trenches in such a manner as to permit ready access to and use of existing utility system appurtenances. Keep surface drainage of adjoining areas unobstructed. Water shall be removed by pumping or other approved method and shall be discharged at a safe distance from the excavation.

3.2 BACKFILLING

3.2.1 Backfilling of excavations: When the concrete poured for foundation has hardened and can already withstand the pressure resulting from fills, the materials removed from excavations shall be used for backfilling them. The fills and backfills shall be placed in layers not more than 150mm (6") in thickness. Each succeeding layer shall be thoroughly compacted by wetting, tamping and rolling.

3.3 FILLS

3.3.1 PREPARATION OF GROUND SURFACE FOR FILL: Ground surface on which fill is to be placed shall be stripped of live, dead or decayed vegetation, rubbish, debris, and other materials as approved by the Project Engineer.

3.3.2 FILLS: Construct earth fills from satisfactory fill materials, as approved by the Project Engineer, free of organic or frozen material, or rocks with maximum dimensions greater than 76.2 mm. Fill material



in successive horizontal layers of loose material not more than 230 mm in depth. Each layer shall be spread uniformly on prepared surface and plowed, disked, or otherwise broken up; moistened. or aerated as necessary to bring moisture content to approximately optimum level; thoroughly mixed, and compacted to required densities.

3.4 COMPACTION

Compaction shall be carried out manually by assigned workers using appropriate hand tools and techniques suited to the particular soil being compacted. Materials shall be moistened or aerated as necessary to achieve the proper moisture content, enabling the workers to obtain the specified compaction through consistent and thorough manual effort.

3.5 SUBGRADE PREPARATION

Sub grade shall be formed to line, grade, and cross section, and compacted as specified. This operation shall include plowing, and any moistening or aerating required obtaining specified compaction. Soft or otherwise unsatisfactory material shall be removed and replaced with satisfactory material as directed in this specification. Low areas resulting from removal of unsatisfactory material or excavation or rock shall be brought up to required grade with satisfactory materials, and entire sub grade shaped as indicated and specified.

4.0 REINFORCING STEEL WORKS

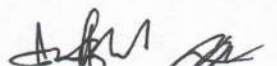
PART I-GENERAL

1.1 SCOPE

This section includes all materials, labor, and the performance of all operations necessary for the completion of all reinforcing steel works as indicated in the drawings and this specification.

1.2 GENERAL REQUIREMENTS

The reinforcements fabricated to shapes and dimensions shown, shall be placed where indicated on the drawings or reasonably required to carry out the intent of the drawings and specifications. Before placing, all



reinforcements shall be thoroughly cleaned of rust, mill scale or coatings which reduce or destroy the bond. Reinforcements shall not be bent or straightened in a manner that will injure the material. Bars with kinks or bends not shown on the drawings shall not be placed.

1.3 SHIPPING

Ship bar reinforcement in standard bundles, properly tagged and marked in accordance with the Code of Standard Practice of the Concrete Reinforcement Steel Institute (CRSI).

1.4 BAR SUBSTITUTION

Bar substitution is authorized only upon approval of the Engineer In-charge. Substitute bar with areas equal or greater than the designed areas.

1.5 SUBMITTALS

1.5.1 DRAWING: Shop details and placing drawings for reinforcing steel, including bending and splicing.

1.6 QUALITY ASSURANCE

1.6.1 REFERENCE SPECIFICATIONS: The following shall have their reference specification as follows:

- a. **STEEL REINFORCING BAR:** adherence to Philippine National Standard (PNS 49:2020), as well as the global ASTM Standard (ASTM A615/A706) established by the American Society for Testing and Materials (now known as ASTM International).

PART II – PRODUCTS

2.1 MATERIALS

2.1.1 REINFORCING STEEL BARS: Shall conform to Philippine National Standard (PNS 49:2020).

2.1.2 TIE WIRE: Shall be 16 AWG galvanized.

Two handwritten signatures in black ink, one on the left and one on the right, located at the bottom right of the page.

2.2 FABRICATION

Fabrication shall be per approved drawings. All reinforcing bars shall be bent cold, unless otherwise directed by the Engineer and shall not be bent after being partially embedded in hardened concrete. Cutting of reinforcement shall be by mechanical methods.

PART III – EXECUTION

3.1 PLACING OF REINFORCEMENTS

Bars shall be placed accurately and securely as shown on the drawings. Mats or grids shall be wired together at the intersections. Intersections shall be wired alternately with a maximum of 610 mm on center wire to prevent displacement by construction loads before and during placing of concrete. Bars shall be supported by approved chairs, or spacers, or by metal hangers and on the ground by concrete blocks or other approved non-corrodible material. Welded wire fabric shall be accurately and securely supported similar to bar support, and shall be lifted during placing of concrete, to insure proper position. Fabrics shall be continuous through contraction joints and construction joints butt shall not be extended through expansion joints in slabs on ground. Adjustment of reinforcements shall be within the allowable tolerances to avoid interference with other reinforcing steel, conduits, or embedded items. Bars No. 11 and smaller shall be securely wire-tied to prevent displacement of splices during a placement of concrete and bars larger than No. 11 shall be butt-spliced in accordance with Specification AWS D12.1. Bars shall not be spliced except at locations shown on drawings. Exposed bars intended for bonding with future work shall be protected from corrosion by wrapping with rag felt and coating with a bituminous coating.

3.2 TOLERANCES

3.2.1 MAXIMUM CONCRETE COVER: Maximum requirements shall take precedence over permissible variations.

3.2.2 MAXIMUM FREE EXTENSION OF STANDARD HOOKS AND BENDS:

Shall be as follows:

- a. 180-degree BEND: Four bar diameters but not less than 63 mm.



- b. 90-degree BEND: Twelve bar diameters
- c. STIRRUP AND 90 degree and 135-degree BENDS: Six bar diameters but not less than 112 mm

3.2.3 MINIMUM DIAMETER OF BENDS: Shall be 6 bar diameters for 10 mm through 25 mm through 36 mm bars. Minimum diameter of bends of stirrups and ties shall be 37.5 mm for 10 mm bars, 50 mm for 12 mm bars and 62 mm for 50 mm bars.

3.2.4 SPLICING: Reinforcing steel bars 36 mm and smaller shall have a minimum lap of 24 bar diameters for compression and 40 bar diameters for tension bars. Welder wire fabric shall be lapped not less than one mesh plus 50 mm.

5.0 FORMWORKS AND SCAFFOLDINGS

5.1 FORMWORKS

PART I – GENERAL

1.1 SCOPE

This section includes all materials, labor, and the performance of all operations necessary for the completion of the setting of formworks and other related works in accordance with the drawings and this specification.

1.2 STORAGE OF MATERIALS

Store form work materials that are not to be used immediately in designated areas on platforms at least 0.60 meter above ground and keep free from moisture, water and the elements.

1.3 QUALITY ASSURANCE

1.3.1 REFERENCE SPECIFICATION: The following shall have its reference specification as follows:

- a. **12MM THK. PHENOLIC BOARD:** Standard specification of PNS ISO 12465:2017, PNS 196:2000

PART II – MATERIALS

2.1 MATERIALS



- 2.1.1 **12MM THK. PHENOLIC BOARD:** Commercial standard, moisture resistant not less than five (5) ply and at least 12 mm thick conforming to PNS ISO 12465:2017
- 2.1.2 **2" X 2"X 10FT COCO LUMBER:** Shall be suitable for formworks
- 2.1.3 **Common Wire Nails:** 1" to 4"

PART III – EXECUTION

3.1 CONSTRUCTION OF FORMS

Formwork shall have adequate cleanest opening to permit inspection and cleaning. Joints shall be located at the junction of form work panels where feasible. Formwork joints shall be solidly backed and leak proofed. Forms shall be properly maintained throughout the concrete work to accommodate rate and methods of placing concrete; to support load of wet concrete, and vertical, horizontal and impact loads during construction, and to minimize abnormal deflections during and after concrete placement. Form shall be provided with positive means of adjustment to permit realignment or readjustment of shores.

3.2 REMOVAL OF FORMS

Forms shall be removed in manner and sequences to ensure complete safety of structure, and without damage to concrete surfaces.

Time of removal of forms shall be as follows:

Structural Element	Curing Period/Removal of Formwork after:
Foundation	24 hours
Column/Shear Wall	2 days

6.0 CONCRETE WORKS

PART I – GENERAL

1.1 SCOPE

This section includes all labor, materials, and the performance of all operations necessary for the completion of all cast-in-place concrete works in accordance with the drawings and this specification.

1.2 SUBMITTALS

1.2.1 SAMPLES: Submit samples of concrete for testing at the expense of the Contractor. Samples shall be submitted as follows:

- a. One bag for each type and manufacturer of cement used.
- b. One bag for each type of dry admixture used.

1.2.2 TESTING: All tests shall be done by an approved private testing laboratory.

1.3 QUALITY ASSURANCE

1.3.1 REFERENCE SPECIFICATIONS: The following materials shall have their reference specifications as follows:

- a. RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL AND HEAVYWEIGHT CONCRETE: ACT 211.1-74 (Rev. 1975)
- b. PORTLAND CEMENT: PHILIPPINE STANDARD PNS 7:2005

1.4 STORAGE OF MATERIALS

Storage accommodations accessible for inspection and identification shall be subject to approval. Store cement on platforms off ground; protect stored cement against the elements. Handle and store fine and coarse aggregates separately in a manner to provide for good drainage and the exclusion of foreign matter. Cement shall be stacked in a seven-bag pile maximum storage.

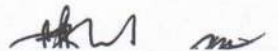
1.5 AUTHORITY TO POUR CONCRETE

No pouring of concrete shall be done by the Contractor unless bearing surfaces and bar reinforcement have been inspected and approved by the Architect, Structural Engineer or Project Inspector and the authority to proceed has been received by the Contractor.

1.6 ENVIRONMENTAL REQUIREMENTS

Concrete shall not be poured during hot water over 90-degree F in direct sunlight and during rain storm unless protection is provided.

PART II – PRODUCTS



2.1 MATERIALS

- 2.1.1 CEMENT:** Approved brand of Portland cement conforming to the requirements of either ASTM C 94, PNS 07, PTS 661-01-02, type I, II or III as required.
- 2.1.2 SAND:** Clean, hard, properly graded uncoated grains free from deleterious substances, conforming with ASTM C 33 or PNS 18.
- 2.1.3 GRAVEL:** Properly graded, maximum size of 25 mm for slabs and walls of 150 mm or less in thickness. Use minimum size as indicated in the ACI Code for beams, girders, columns and footings.
- 2.1.4 WATER:** Water used for mixing and curing concrete shall be clean and potable.

PART III – EXECUTION

3.1 PREPARATION FOR PLACING CONCRETE

Before placing concrete, remove all debris, water and other foreign materials from the places to be occupied by the concrete. Reinforcements shall be secured in position, inspected and approved.

- 3.1.1 INSPECTION:** Formworks shall be rechecked with respect to all established line and grade references to ensure completed work within the allowable tolerances specified. Pertinent design assumptions including assumed values of live loads, rate of placement, height of drop, weight of moving equipment, and other pertinent information prior to designing form works shall be reviewed. The Contractor shall verify that reinforcement is free of loose scale or rust and contaminants and shall be fabricated in accordance with fabrication requirements herein specified and/or in the drawings. Reinforcement shall be checked of its allowable tolerances and splicing requirements and shall be kept in its proper position during placement of concrete. The Contractor shall also check that all samples and certificates are submitted and approved. All items embedded in concrete shall be complete and in their proper position. Partially set concrete shall not be re-tempered and used. Concrete shall be cured as indicated and shall be protected from flowing water shock or excessive vibration during curing.

3.2 INSTALLATION

- 3.2.1 PLACING CONCRETE:** All earth excavation shall be free of mud and earth and fill surfaces shall be properly wetted, but not muddy, before depositing. The Contractor shall see to it that all runways shall not be supported on reinforcement. Before depositing new concrete against set concrete,



existing surfaces shall be cleaned of laitance and loose particles, shall retighten forms against existing surfaces, shall thoroughly wet and slush existing surfaces with coat of neat cement grout, and shall place new concrete before grout attains initial set. Conveying concrete to forms shall be done as rapidly as practicable by proper methods which will not cause segregation or loss of ingredients. Splashing forms and reinforcement with concrete in advance of depositing shall be avoided. Concrete shall not be deposited after evidence of initial set or after containing mixing water for more than 45 minutes.

3.3 PROTECTION OF COMPLETED WORK

During construction period, concrete shall be protected from flowing water, mechanical shock or vibration.

3.4 CLEAN-UP

Upon completion of all works, all equipment, forms, protective coverings and any rubbish resulting from such work shall be removed from the site.

7.0 WIRE WORKS

PART I- GENERAL

1.1 SCOPE

This section shall include all materials, labor, and operations necessary for the completion of the wire fencing works as indicated in the drawings and specifications.

PART II- PRODUCTS

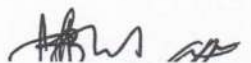
2.1 MATERIALS

2.1.1 GALVANIZED DOUBLE TWIST BARBED WIRE:

Shall be 2.3 mm diameter, supplied in 50 m rolls. The wire shall be hot-dip galvanized steel conforming to ASTM A121 – Standard Specification for Zinc-Coated (Galvanized) Steel Barbed Wire, with uniform coating, rust resistance, and double twist construction.

2.1.2 HOG WIRE:

Shall be 47 in. (1.2 m) height × 37 yd (33.8 m) length rolls, woven type, hot-dip galvanized steel conforming to ASTM A116 – Standard Specification for Metallic-Coated, Steel-Woven Wire Fence Fabric. Wire spacing shall be uniform, providing adequate strength for fencing works.



2.1.3 PLAIN ROUND BAR (10 mm Ø):

Shall be plain round mild steel bars, 10 mm in diameter, free from rust, scale, or defects, conforming to ASTM A36 – Standard Specification for Carbon Structural Steel or approved equivalent.

2.1.4 PLAIN ROUND BAR (16 mm Ø):

Shall be plain round mild steel bars, 16 mm in diameter, straight, clean, and free from cracks, conforming to ASTM A36 – Standard Specification for Carbon Structural Steel or approved equivalent.

2.1.5 G.I. TIE WIRE (#14):

Shall be commercial quality, hot-dip galvanized iron wire, gauge #14, conforming to ASTM A641/A641M – Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire. Wire shall be pliable and sufficiently strong for tying and securing fencing materials.

PART III – EXECUTION

3.1 INSPECTION

All works shall conform to the approved shop drawings. Verify correctness of locations and alignment.

3.2 WORKMANSHIP

Workmanship and finished shall be equal to the best prevailing trade practice and modern shops for the respective work.

8.0 PAINTING WORKS

PART I- GENERAL

1.1 SCOPE

This section may include materials, labor, and the performance of all operations necessary for the completion of painting works as indicated in the drawings and this specification.

1.2 Color and finishes must receive prior approval from the Project In-Charge through formal written documentation before installation can proceed.

1.3 Conduct regular inspections during painting to ensure proper coverage, adhesion, and finish quality

PART II- PRODUCTS

2.1 MATERIALS

Conforming and/or meeting the requirement/specification of the ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications

Plain Round Bar

QDE Paint, Flat (White) 3 coats
lacquer thinner

RC Column

flat latex paint primer (white)
latex paint semi gloss top coat
skim coat

consumables

sanding paper # 120
sanding paper # 240
paint roller 4 inch
paint brush 2 inch
roller tray

PART III - EXECUTION

All painting works for this project shall be executed in the first-class workmanship. Surface to be painted should be clean & dry. Remove all mortar, dust, grease, rust and all possible contaminants that may be present on areas to be painted. Secure joints & surface defects such as cracks, dents and holes must be filled with putty and sandpapered before final coat of paint is applied. Final paint color coating shall first be checked for approval prior to the completion of this item of work.

These works would cover three (3) coats of paint (one coat for primer and two coats for final color) it must serves in all interior and exterior ceiling surfaces.

Paint contractor shall consist of necessary tools, equipment and materials for the satisfactory completion of the work. All surfaces shall be smooth and true to the line with no tolerance for imperfection.

All materials specified herein shall be brand new and conforming to the plans, with this scope or work and to the standards set by the University. No change or modification shall be made without prior consultation and approval of the PSU Project Management Office. All finishing, materials & furnishings, colors & profiles should first be verified, checked & approved by the PMO office before fabrication and/or installation.

Also included in this scope of works are the proper clearing and disposal of all kind of construction wastes. The project and the site should be cleansed before it is considered 100% complete. All works shall be executed in quality workmanship.

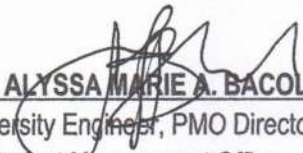
*** Nothing follows***

Prepared by:


AR. AIREEN MAE P. ALLEDA
Project Development Officer II
Planning and Design Unit, PMO

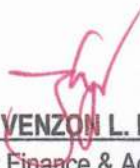
Recommending Approval:


ENGR. ALYSSA MARIE A. BACOLOD
University Engineer, PMO Director
Project Management Office

Recommending Approval:


DR. NELLY I. MENDOZA
Chief Administrative Officer

Recommending Approval:


DR. VENZON L. LIMPIADA
VP for Finance & Administration

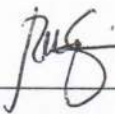
Approved:


DR. RAMON M. DOCTO
University President

	Republic of the Philippines PALAWAN STATE UNIVERSITY <i>Project Management Office</i> <i>Office of the University Engineer</i> Puerto Princesa City		Doc. Ref.	
			No.:	
			Effectivity	
			Date:	
			Revision No.:	
			Page No.:	

TRANSMITTAL

Project Title	"CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS"
Location	PSU EL NIDO CAMPUS
Project Cost	₱ 1,500,000.00

No.	Particulars	Designed by:	Checked & verified by:	Signature & Date Received
1	STRUCTURAL PLANS/ BLANK BOQ/SOW	Engr. Reden H. Argawanon	Engr. Rocky Siores	 Sept 17, 2025

For your appropriate action. Thank you.

Prepared by:


ENGR. REDEN H. ARGAWANON
PDU – Civil Engineer

Noted by:


AR. AIREEN MAE ALLEDA
PDU – Unit head

Republic of the Philippines
PALAWAN STATE UNIVERSITY
 Puerto Princesa City

Date: March 3, 2026

JOB REQUEST/ORDER

Please furnish the following: _____

☐ Supplies	☐ Spare parts	☐ Equipment
☐ Materials	☐ Labor	☐ Others

For the following purposes: CONSTRUCTION OF PERIMETER FENCING OF
4.9 HECTARES LAND OF EL NIDO CAMPUS

Item No.	Qty.	Unit	Description
PERMITS AND LICENSING			
1	1	lot	Fencing Permit
OCCUPATIONAL SAFETY AND HEALTH			
1	90	day	Safety Officer
2	90	day	First Aider
FIELD OFFICE AND TEMPORARY FACILITIES			
1	80	ln.m	6'X8' polyethylene sackolin
2	80	bd.ft	2" x 2"x 10ft coco lumber
3	60	bd.ft	2" x 3"x 10ft coco lumber
4	1	kg	2" CWN
5	1	kg	3" CWN
6	1	pc	Flush toilet ceramic bowl
7	1	pc	Vertical Purifying Septic Tank (1000 Liters)
8	3	pc	4" dia x 3m uPVC pipe s600
9	7	pc	4" dia. Pvc elbow (45°)
10	5	pc	3" dia. (90°) pvc elbow
11	3	sq.ft	Project billboard
PERSONAL PROTECTIVE EQUIPMENT			
1	8	pair	Safety Shoes (Steel Toe)
2	8	unit	Safety Helmet (Hard Hat)
3	4	set	Safety Harness (Heavy Duty)
4	4	pc	Safety Goggles (Heavy Duty)
5	8	pair	Safety Gloves (Heavy Duty)
6	1	set	Firs Aid Kit Tool
7	1	lot	Safety Signages
SITE PREPARATION WORKS			
1	roll	50	0.8 mm #45, String monoline nylon
2	bd.ft	280	2" x 2"x 10' Coco Lumber
3	kg	20	Assorted Common Wire Nail
4	hr	24	Excavator (operator w/ spotter)
EARTHWORKS			
1	cu.m	3.00	3/4" Gravel (gravel bedding)
2	cu.m	16.11	Excavation
3	cu.m	3.00	Filling & Compaction
REINFORCING STEEL WORKS			
1	kg	2160.00	10mm Ø Reinforcing Steel Bar, Grade 40
2	kg	3200.00	12mm Ø Reinforcing Steel Bar, Grade 40
3	kg	85.00	G.I. Tie Wire
FORMWORKS AND SCAFFOLDINGS			
1	pc	15.00	12mm thk Phenolic Board
2	bd.ft	150.00	2" x 2"x 10' Coco Lumber
3	kg	25.00	Assorted Common Wire Nail



CONCRETE WORKS			
1	bag	261.00	40 kg Portland Cement
2	cu.m	15.00	Screen Sand
3	cu.m	29.00	3/4" Washed gravel
WIRE WORKS			
1	roll	18	2.3 mm, 50 m, Galvanized Double Twist Barbed Wire
2	roll	26	47" x 37yd, Hog Wire
3	kg	321	10mm Ø, Plain Round Bar
4	kg	2715	16mm Ø, Plain Round Bar
5	kg	10	#14 G.I. Tie Wire
PAINTING WORKS			
1	gal	15	QDE Paint, Flat (White) 3 coats
2	gal	5	lacquer thinner
3	gal	15	flat latex paint primer (white)
4	gal	30	latex paint semi gloss top coat
5	bag	40	skim coat
6	pc	100	sanding paper # 120
7	pc	100	sanding paper # 240
8	pc	4	paint roller 4 inch
9	pc	6	paint brush 2 inch
10	pc	4	roller tray
Others			
1	lot	1	Labor Cost (20.77%)
2	lot	1	Equipment Rental (4.80%)
3	lot	1	Overhead, Contingencies, and Miscellaneous (15%)
4	lot	1	Contractor's Project (10%)
5	lot	1	VAT (5%)

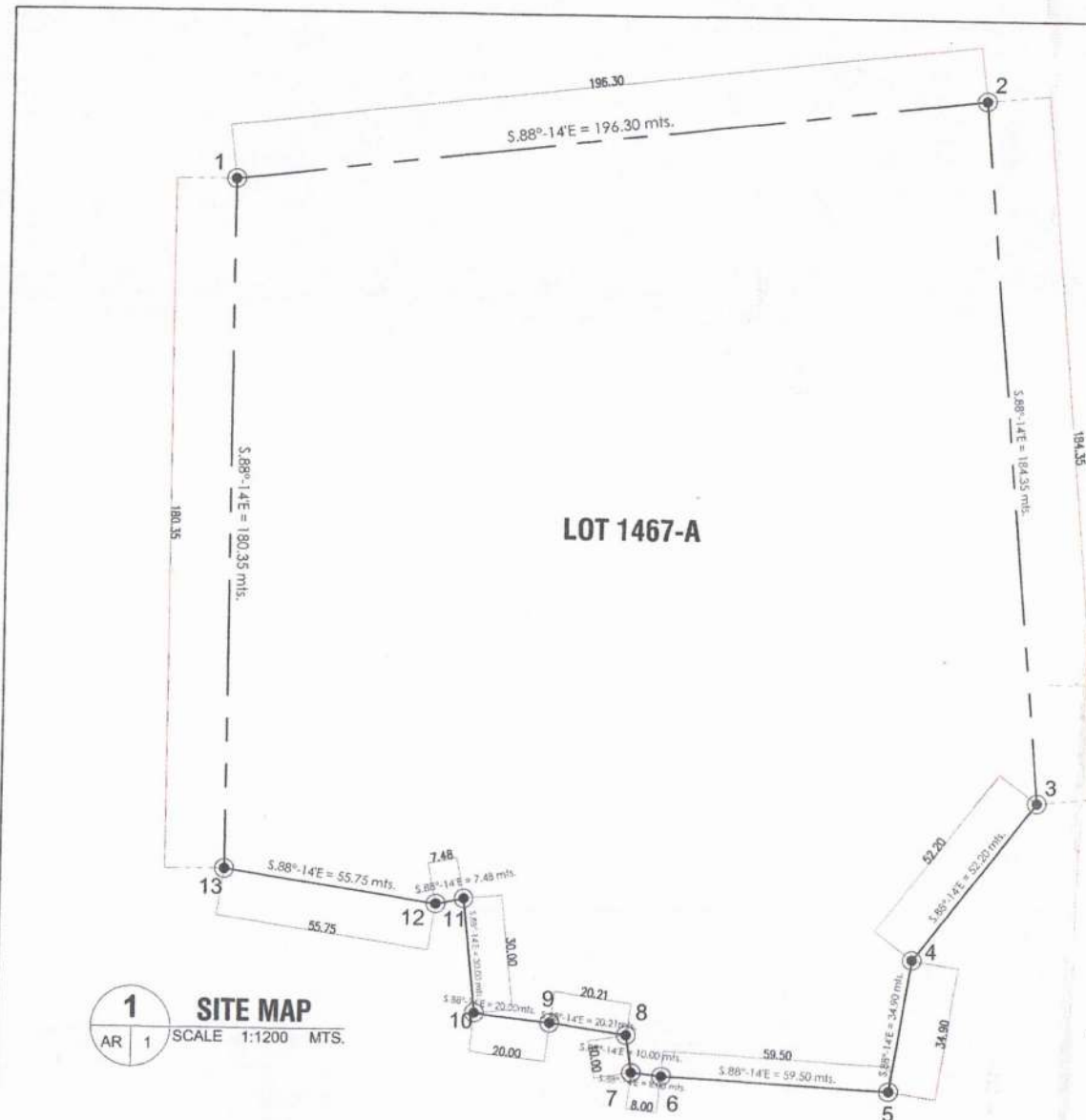


ENGR. ALYSSA MARIE A. BACOLOD
 University Engineer
 Director, Project Management Office

APPROVED:



MARISSA S. PONTILLAS
 OIC-University President



1 SITE MAP
AR 1 SCALE 1:1200 MTS.

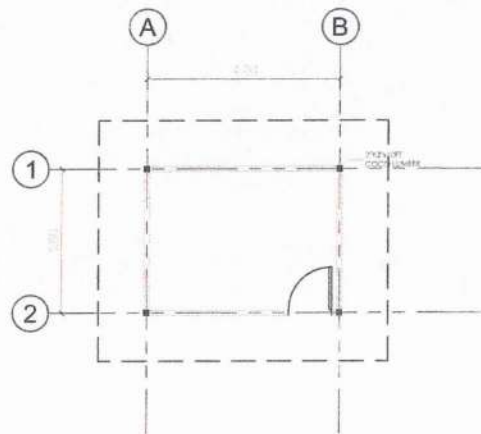
TABLE OF CONTENTS

ARCHITECTURAL		
AR-1	SITE PLAN	
AR-2	TEMPORARY FACILITIES	
STRUCTURAL		
ST-1	FENCING DETAILS	
TECHNICAL DESCRIPTION		
LOT 1467-A		
LINE	BEARING	DISTANCE
1-2	N.83°-14'E	196.30mts.
2-3	S.05°-17'E	184.35mts.
3-4	S.37°-35'W	52.20mts.
4-5	S.08°-47'W	34.90mts.
5-6	N.86°-51'W	59.50mts.
6-7	N.83°-37'W	8.00mts.
7-8	N.08°-58'W	10.00mts.
8-9	N.81°-36'W	20.21mts.
9-10	N.83°-38'W	20.00mts.
10-11	N.06°-25'W	30.00mts.
11-12	S.78°-40'W	7.48mts.
12-13	N.81°-40'W	55.75mts.
13-1	N.00°-03'W	180.35mts.

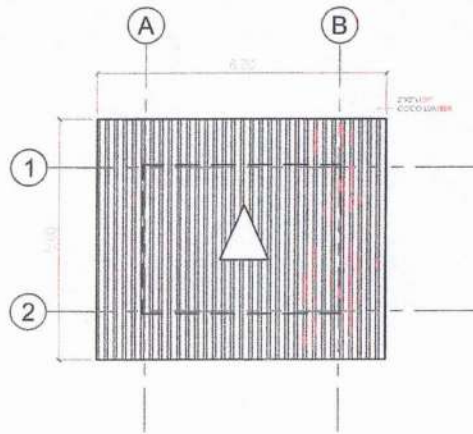
Republic of the Philippines PUERTO PRINCESA CITY OFFICE OF THE BUILDING OFFICIAL	
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LAND USE AND ZONING	
LINE AND GRADE	
ARCHITECTURAL	
STRUCTURAL	
SANITARY	
ELECTRICAL	
MECHANICAL	



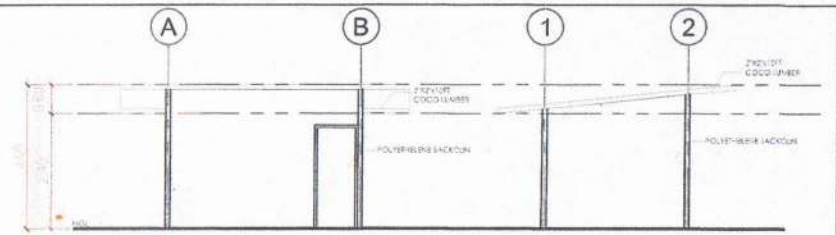
REPUBLIC OF THE PHILIPPINES PALAWAN STATE UNIVERSITY PUERTO PRINCESA CITY ADDRESS: TINGILURAN HEIGHTS, PUERTO PRINCESA CITY	PREPARED BY: AR. CLIFFORD T. BALDOZANO HEAD OF LULU, DR. T. BALDOZANO PLANNING & DESIGN UNIT	CHECKED & VERIFIED BY: AR. AILEEN MAE P. ALLEDA PROJECT DEVELOPMENT OFFICER HEAD, PLANNING & DESIGN UNIT PROJECT MANAGEMENT OFFICE	RECOMMENDING APPROVAL: ENGR. ALYSSA MARIE A. BACLO PROJECT DEVELOPMENT OFFICER PROJECT MANAGEMENT OFFICE	RECOMMENDING APPROVAL: DR. NELLY I. MENOZA VICE PRESIDENT FOR PLANNING AND ADMINISTRATION	RECOMMENDING APPROVAL: DR. VENZON L. LIMPIADA VICE PRESIDENT FOR PLANNING AND ADMINISTRATION	APPROVED BY: DR. RAMON M. DOCTO UNIVERSITY PRESIDENT	PROJECT TITLE: "CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS"	SHEET CONTENT: AS SHOWN SCALE AS SHOWN SHEET NO. 1 OF 2	PARTIALS: SHEET NO. 1 OF 2
	DATE: 23 SEP 2023 - 10:00 AM 19 EL NIDO CAMPUS								



1 TEMFACIL. FLOOR PLAN
AR 2 SC: 1/75 MTS.

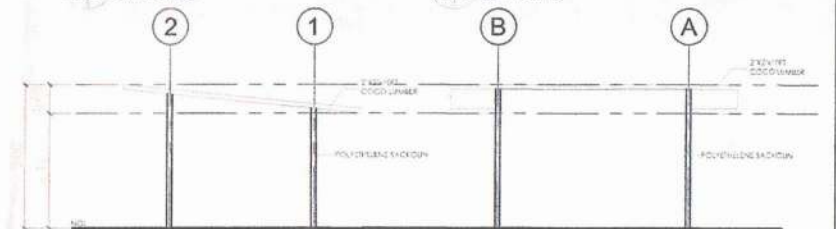


2 TEMFACIL ROOF PLAN
AR 2 SC: 1/75 MTS.



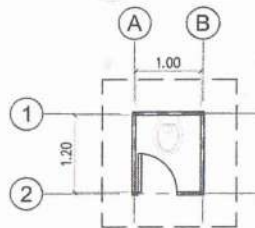
3 FRONT ELEVATION
AR 2 SC: 1/100 MTS.

4 RIGHT-SIDE ELEVATION
AR 2 SC: 1/100 MTS.

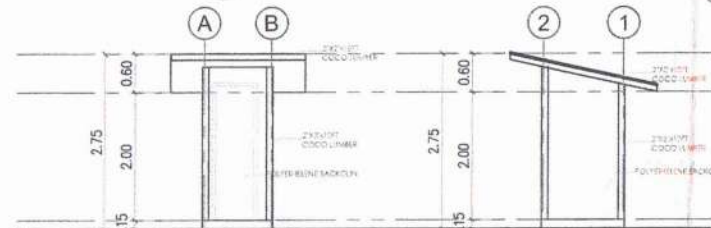


5 REAR ELEVATION
AR 2 SC: 1/100 MTS.

6 LEFT-SIDE ELEVATION
AR 2 SC: 1/100 MTS.

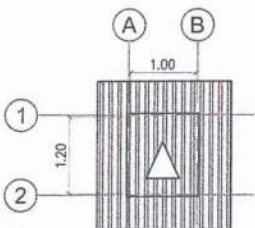


7 TOILET FLOOR PLAN
AR 2 SC: 1/75 MTS.

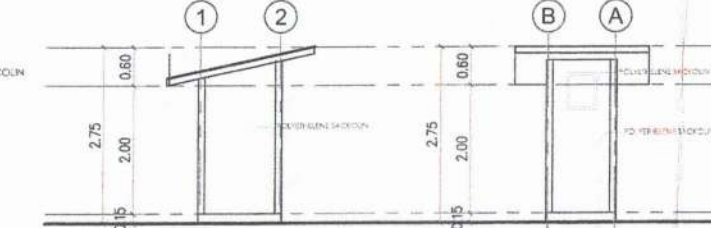


8 FRONT ELEVATION
AR 2 SC: 1/75 MTS.

9 RIGHT-SIDE ELEVATION
AR 2 SC: 1/75 MTS.

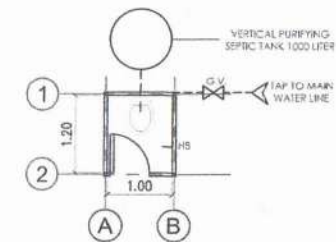


10 TOILET ROOF PLAN
AR 2 SC: 1/75 MTS.



11 LEFT-SIDE ELEVATION
AR 2 SC: 1/75 MTS.

12 REAR ELEVATION
AR 2 SC: 1/75 MTS.



13 PLUMBING LAYOUT
AR 2 SC: 1/75 MTS.

REPUBLIC OF THE PHILIPPINES PALAWAN STATE UNIVERSITY PUERTO PRINCESA CITY ADDRESS: TINDIGUBAN HEIGHTS, PUERTO PRINCESA CITY	PREPARED BY: <i>[Signature]</i> AR. CLIFFORD I. BACDOZANO ARCHITECTURAL DESIGNER PLANNING & DESIGN UNIT STAFF	CHECKED & VERIFIED BY: <i>[Signature]</i> DR. AMREEN MAE P. ALLEDA PROJECT DEVELOPMENT OFFICER HEALTH PLANNING & DESIGN UNIT PROJECT MANAGEMENT OFFICE	RECOMMENDING APPROVAL: <i>[Signature]</i> ENGR. ALYSSA MARIE A. BACOLOD PROJECT DEVELOPMENT OFFICER HEALTH PLANNING & DESIGN UNIT PROJECT MANAGEMENT OFFICE	RECOMMENDING APPROVAL: <i>[Signature]</i> DR. NELLY I. MENDOZA PROJECT DEVELOPMENT OFFICER HEALTH PLANNING & DESIGN UNIT PROJECT MANAGEMENT OFFICE	RECOMMENDING APPROVAL: <i>[Signature]</i> DR. VENZON I. LIMPIADA PROJECT DEVELOPMENT OFFICER HEALTH PLANNING & DESIGN UNIT PROJECT MANAGEMENT OFFICE	APPROVED BY: <i>[Signature]</i> DR. RAMON M. DOCTO UNIVERSITY PRESIDENT	PROJECT TITLE: "CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS"	SHEET CONTENT: AS SHOWN SCALE: AS SHOWN NOTES: ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED DATE: 15 Sep 2025 - 5:54pm DRAWN BY: 15 Sep 2025 - 5:54pm	PARTICULARS: SHEET NO. AR 2 2
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 REPUBLIC OF THE PHILIPPINES PALAWAN STATE UNIVERSITY PUERTO PRINCESA CITY ADDRESS: TINGSUBAN HEIGHTS, PUERTO PRINCESA CITY	PROJECTED BY  ENGR. ROBERT H. ARGAWANON	CHECKED AND VERIFIED BY  AR. AILEEN MAE P. ALLEDA	ADMINISTRATIVE APPROVAL  ENGR. ALYSSA MAE B. BACOLOD	ADMINISTRATIVE APPROVAL  DR. NELLY I. MENDOZA	ADMINISTRATIVE APPROVAL  DR. VINZON L. LIMPIADA	APPROVED  DR. RAMON M. DOCTO	PROJECT TITLE "CONSTRUCTION OF PERIMETER FENCING OF 4.9 HECTARES LAND OF EL NIDO CAMPUS"	DATE PREPARED AS SHOWN FILED IN OFFICE DATE APPROVED FILED IN OFFICE DATE PRINTED FILED IN OFFICE	CHECKED BY REVISOR BY CHECKED BY LAST UPDATED DATE PRINTED	ST-1
	CIVIL ENGINEER PSU STAFF	PROJECT DEVELOPMENT OFFICER: PSU STAFF HEAD	UNIVERSITY SENIOR PROJECT MANAGEMENT OFFICE	CHIEF ADMINISTRATIVE OFFICER	VICE PRESIDENT FOR FINANCE AND ADMINISTRATION	UNIVERSITY PRESIDENT	PSU EL NIDO CAMPUS			

BILL OF QUANTITIES

SUMMARY OF COSTS					
No. Item	Description	Materials Cost	Labor Cost	Tools and Equipment	Total Cost
1.0	GENERAL REQUIREMENTS				
1.a	PERMITS AND LICENSING				
1.b	OCCUPATIONAL SAFETY AND HEALTH				
1.c	FIELD OFFICE AND TEMPORARY FACILITIES				
1.d	PERSONAL PROTECTIVE EQUIPMENT				
2.0	SITE PREPARATION WORKS				
3.0	EARTHWORKS				
4.0	REINFORCING STEEL WORKS				
5.0	FORMWORKS AND SCAFFOLDINGS				
6.0	CONCRETE WORKS				
7.0	WIRE WORKS				
8.0	PAINTING WORKS				
TOTAL ITEM COST:					
Description		Total Item Cost			
1.0	Total Material Cost.....				
2.0	Total Labor Cost.....				
3.0	Total Equipment Cost.....				
TOTAL DIRECT COST					
CONTRACTOR'S PROFIT					
OCM.....					
VAT					
TOTAL CONSTRUCTION COST					
Amount in words:					

Submitted by:

Name of the Firm/Contractor

By:

Name & Signature of the Authorized Representative

Position/Designation

Date

DETAILED ESTIMATES					
1.0	GENERAL REQUIREMENTS			lot	
	Description	Qty	Unit	Unit Cost	Amount
Labor					
1.a	PERMITS AND LICENSING	1.00	lot		
	Fencing Permit				
				Labor Cost.	
1.b	OCCUPATIONAL SAFETY AND HEALTH	90.00	day		
	1.00 Safety Officer	90.00	day		
	1.00 First Aider	90.00	day		
				Labor Cost.	
Materials					
1.c	FIELD OFFICE AND TEMPORARY FACILITIES	1.00	lot		
	Office, Bunkhouse, Temporary Enclosure, Billboards & etc.				
	6'X8' polyethylene sackolin	80.00	ln.m		
	2" x 2"x 10ft coco lumber	80.00	bd.ft		
	2" x 3"x 10ft coco lumber	60.00	bd.ft		
	2" CWN	1.00	kg		
	3" CWN	1.00	kg		
	Flush toilet ceramic bowl	1.00	pc		
	Vertical Purifying Septic Tank (1000 Liters)	1.00	pc		
	4" dia x 3m uPVC pipe s600	3.00	pc		
	4" dia. Pvc elbow (45°)	7.00	pc		
	3" dia. (90°) pvc elbow	5.00	pc		
	Project billboard	3.00	sq.ft		
				Material Cost.	
				Labor Cost.	
1.d	PERSONAL PROTECTIVE EQUIPMENT	1.00	lot		
	Safety Shoes (Steel Toe)	8.00	pair		
	Safety Helmet (Hard Hat)	8.00	unit		
	Safety Harness (Heavy Duty)	4.00	set		
	Safety Goggles (Heavy Duty)	4.00	pc		
	Safety Gloves (Heavy Duty)	8.00	pair		
	Firs Aid Kit Tool	1.00	set		
	Safety Signages	1.00	lot		
				Material Cost.	
				Total Material Cost.	
				Total Labor Cost.	
				Total Item Cost.	
Labor					
2.0	SITE PREPARATION WORKS			lot	
	Description	Qty	Unit	Unit Cost	Amount
Materials					
	Layout and Staking				
	0.8 mm #45 String monoline nylon	50.00	roll		
	2" x 2"x 10' Coco Lumber	280.00	bd.ft		
	Assorted Common Wire Nail	20.00	kg		
				Material Cost.	
	Equipment Rental				
	Excavator (operator w/ spotter)	24.00	hr		
	*clearing & grubbing			Equipment Cost.	
				Total Material Cost.	
				Total Labor Cost.	
				Total Equipment Cost.	
				Total Item Cost.	
Labor					
3.0	EARTHWORKS			cu.m	
	Description	Qty	Unit	Unit Cost	Amount
Materials					
	3/4" Gravel (gravel bedding)	3.00	cu.m		
				Material Cost.	
Labor					
	Excavation	16.11	cu.m		
	Filling & Compaction	3.00	cu.m		
				Labor Cost.	
				Total Material Cost.	
				Total Labor Cost.	
				Total Item Cost.	
4.0	REINFORCING STEEL WORKS			kg	
	Description	Qty	Unit	Unit Cost	Amount
Materials					
	4.1 Reinforced Concrete Post				
	10mm Ø Reinforcing Steel Bar, Grade 40	2160.00	kg		
	12mm Ø Reinforcing Steel Bar, Grade 40	3200.00	kg		
	#16 G.I. Tie Wire	85.00	kg		
				Material Cost.	
				Total Material Cost.	
				Total Labor Cost.	
				Total Item Cost.	
Labor					

5.0 FORMWORKS AND SCAFFOLDINGS				lot	
Description		Qty	Unit	Unit Cost	Amount
Materials					
12mm thk Phenolic Board		15.00	pc		
2" x 2"x 10' Coco Lumber		150.00	bd.ft		
Assorted Common Wire Nail		25.00	kg		
		Material Cost.			
		Total Material Cost.			
Labor		Total Labor Cost.			
		Total Item Cost.			
6.0 CONCRETE WORKS					cu.m
Description		Qty	Unit	Unit Cost	Amount
Materials					
6.1 Reinforced Concrete Post					
40 kg Portland Cement		261.00	bag		
Screen Sand		15.00	cu.m		
3/4" Washed gravel		29.00	cu.m		
		Material Cost.			
		Total Material Cost.			
Labor		Total Labor Cost.			
		Total Item Cost.			
7.0 WIRE WORKS					ln.m
Description		Qty	Unit	Unit Cost	Amount
Materials					
2.3 mm, 50 m Galvanized Double Twist Barbed Wire		18.00	roll		
47" x 37yd Hog Wire		26.00	roll		
10mm Ø Plain Round Bar		321.00	kg		
16mm Ø Plain Round Bar		2,715.00	kg		
#14 G.I. Tie Wire		10.00	kg		
		Material Cost.			
		Material Cost.			
Labor		Labor cost.			
		Total Item Cost.			
8.0 PAINTING WORKS					lot
Description		Qty	Unit	Unit Cost	Amount
Plain Round Bar					
QDE Paint, Flat (White) 3 coats		15.00	gal		
lacquer thinner		5.00	gal		
RC Column					
flat latex paint primer (white)		15.00	gal		
latex paint semi gloss top coat		30.00	gal		
skim coat		40.00	bag		
consumables					
sanding paper # 120		100.00	pc		
sanding paper # 240		100.00	pc		
paint roller 4 inch		4.00	pc		
paint brush 2 inch		6.00	pc		
roller tray		4.00	pc		
		Material Cost.			
		Total Material Cost.			
Labor		Total Labor Cost.			
		Total Item Cost.			
Description					
1.0	Total Material Cost				
2.0	Total LaborCost				
3.0	Total Equipment Cost				
TOTAL DIRECT COST					
***** nothing follows *****					