

MARIANO MARCOS STATE UNIVERSITY

Bids and Awards Committee

INVITATION TO MAKE AN OFFER: Negotiated Procurement

21-025

THE PROJECT: repair and Rehabilitation of guard House (2 units)
Number of Working Days: 65 calendar days

ABC: P395,591.44

- <u>__</u> necessary and proper for the implementation of the above Project as per approved designs, plans and drawings. Norte, invites the public to make an offer to furnish all labor, materials, tools and equipment The Mariano Marcos State University (MMSU), with offices at Quiling Sur, City of Batac, Ilocos
- 2 contractors are to submit proposals. Act and Section 53.9 of the Implementing Rules and Regulations where interested and qualified This process is in accordance with Section 53 of R.A. 9184, the Government Procurement reform
- 4 2:00 PM together with the following documents: The offer must be in writing submitted at the address below on or before December 21, 2021;
- a numbers and figures. The amount of the offer in writing duly signed by the person making the offer, indicated in
- ੁ The particulars of the offer as to labor, materials, tools, equipment and other work details.
- C the offer, which documents shall be confirmed and verified (3 copies). Documents in support of the legal, technical and financial capability of the person making
- 'n time prior to contract award, without liability to anyone. It is understood that any offer may be accepted or rejected, or the process invalidated, at any
- Ġ address below or downloaded from the MMSU website or from the Philippine Government Electronic Procurement System (PhilGEPS) website. Documents for this procurement may be secured from the MMSU BAC Secretariat at the
- 7. at the address indicated below. For questions and inquiries, please write or email the University President, thru the BAC Chair,

Quiling Sur, City of Batac Mariano Marcos State University

www.mmsu.edu.ph

December 15, 2021

Received:

Received:



Received:

NATHANIEL R. ALIBUYOG

BAC CHAIR









PROJECT INFORMATION DOCUMENT

Project Title Repair and Rehabilitation of Guard House (2 units)

Project Location : MMSU, Batac City, Ilocos Norte

The project calls for the furnishing of all materials, labor, tools and equipment needed for the repair and rehabilitation of two-unit guard house in front of MMSU FEM Hall Building, MMSU Batac Campus, City of Batac, Ilocos Norte. The said project shall be done in strict conformity with the designs, plans, drawings and other details, as well as the specifications, this Project Information Document and other related contract documents prepared and approved for this project.

required of this undertaking. In addition, the Contractor shall have adequate and readily available construction tools and equipment to be utilized during the construction activities of the project. It is also a must as it is necessary that the Contractor shall have regularly at the site a qualified project Engineer to administer strictly the implementation of the project, including maintaining a log book of construction activities, as well as receiving authorized University Officials and expertise to undertake the specific items of work and to enable the contractor to produce and deliver to the satisfaction of the owner the needed services and output Inspectors It also calls for the employment of men power with the appropriate skills and

General Instructions

campus. In addition, the Contractor shall be required to provide its own water and power supply system needed in the proper execution of the various works for the and disturb any on-going operation of the other areas and facilities of the campus and the adjoining road; hence, the contractor shall construct a temporary security or peripheral fence to enclose and isolate the working area from the other facilities of the duration of the contract. contractor shall ensure that the construction activities shall not interfere, obstruct Specifically, the project covers the repair and rehabilitation of guard houses

The lot where the proposed project will be put up has existing small concrete structures housing equipment for water supply and for power supply. All of dismantled and throwaway materials shall be disposed of properly in a designated place; however, all dismantled and removed materials from the building that are still in good condition or can be re-used shall be turned over to the University. Other existing water and power lines, as well as other service utilities within the area of construction which will hinder construction works shall be relocated;

however, said relocation shall be done only after proper consultation with those incharge of the affected utilities in the University.

The prospective bidders shall submit a bid proposal for the above-mentioned project with the following scope of works:

over. Roughing Works. This includes the demolition of existing kitchen sink counter, Chipping of floor for tile works including C.R. area. This also includes the washing of exterior wall to be able to appreciate the design of the building. Before and after the construction, the contractor is advised to clear and clean the area prior to the turn

Tile Works. This includes installation of 0.60mx0.60m semi polished tiles for the interior floor and all others areas shown in the approved plans and drawings with the appropriate tile adhesive. Layout the tiles in such a way that the gap between each tile on all sides shall be kept to a maximum of two millimeters (2 mm). Apply tile grout in between the laid-out tiles using appropriate color consistent with the shade of the tiles or as approved by the end user. The Contractor shall present samples of the tiles to be used for the approval by the end-user prior to purchasing and installation.

Ceiling Works. The work under this item shall consist in furnishing of all the required materials, tools and equipment, as well as labor necessary for the satisfactory completion of all carpentry and joinery works in strict accord with the drawings, details and specifications for this project

Ceiling boards shall be 4.5 mm or ¼" thick cement fiber board (hardiflex) with ceiling joist to be metal furring. All ceiling joist must be properly fastened with rivet prior to the installation of ceiling boards. Before installing the ceiling boards, the contractor shall notify the University for the inspection by the Inspection Team or designated inspectors to inspect the framing system of the ceiling works for approval.

with three (3) coats of paints following the approved materials specified in the Program of Work and other related contract documents **Painting Works.** This scope of works includes painting of Ceiling and interior walls, with three (3) coats of paints following the approved brand and quality of painting

For all exterior concrete walls, apply one coat of latex primer and two coats of elastomeric weather proofing paint of the color to be chosen by the Owner.

Painting preparations for masonry surfaces shall include application of masonry putty or skimcoat to correct uneven wall surfaces during the process.

also includes the fabrication, delivery and installation of analok framed windows of type and sizes as shown in the schedule of doors and windows of the plans a drawings prepared and approved for this project. The Contractor is required to show the contractor is required to t and services necessary for the fabrication, delivery and installation of wooden doors of the type and size as shown in the schedule of doors and windows for this project. It Mill Works. This item shall consist of furnishing of all materials, hardware, tools, labor

purchasing and installation. sample for approval for the quality, color and style of these said materials prior to

Plumbing Works. This item shall consist of furnishing and installation of all materials and fixtures as shown in the plans and providing of all required tools and equipment for the satisfactory operation of the entire plumbing and sanitary system all of which shall be in accordance with the latest edition of the National Plumbing Code and specifications.

Material Requirements: All piping materials, fixtures and appliances fitting accessories whether specifically mentioned or not but necessary to complete this item shall be furnished and installed. Pipes shall be of quality made by reputable manufacturers free from defects, and shall be true, smooth and cylindrical. Pipes and fittings for Sanitary lines shall be unplasticized Polyvinyl Chloride Series 1000. Pipes and fittings for Water lines shall be Polypropylene Pipe (PPr Pipe).

Plumbing Fixtures and Accessories:

- Water closet shall be vitreous china, free standing toilet combination, close coupled push button dual flush, siphon jet flushing system, soft close seat cover and complete with fittings and mounting accessories.
- Lavatory shall be vitreous china, counter type with rear overflow, and complete with lever type faucets, supply pipe, stainless p-trap and mounting accessories
- architect. Toilet paper holder shall be vitreous china wall mounted. Color shall reconcile with the adjacent fixture and facing tiles. Refer location to the supervising
- Soap holder shall be vitreous china, wall mounted. Color shall reconcile with the adjacent tile works. Refer location to the supervising architect.
- Faucets shall be lever type made of stainless steel for interior use
- Floor drains shall be made of stainless steel, measuring 10cmx10cm and provided with detachable stainless strainer.

Soil Pipe- All soil and drainage pipe shall be sloped at 2% or 2cm per 1.0 meter run but in no case flatter than 1%. All changes in pipe sizes such as soil and waste lines shall be made with reducing fittings or recessed reducers. All changes in direction shall be made by appropriate use of 45 degrees fittings for soil and waste lines. All pipes shall be cut accurately to measurements and shall be worked into place without springing or forcing. All joints shall be neatly applied with marine epoxy to avoid leakage in sewer line pipes. Upon completion, thoroughly clean all fixtures and accessories to leave the work in a polished condition. The whole system, including all installed fixtures shall be tested for leaks and proper functioning.

- Electrical Works.

 a. Works shall be done by a duly accredited electrician (NC II) under the direct supervision of a licensed electrical practitioner, PEE/REE/RME.
- Ö PEE/REE/RME on the job site as a resident project supervisor for the electrical works. No installation shall be done without the presence of the project shall provide _ (one) licensed electrical practitioner
- ဂ Before starting any works, the Contractor must provide its metering equipment (kWHr Meter) for the power consumption throughout the project construction. The power consumption shall be paid by the contractor to the university after all works are furnished. The provision shall be limited to equipment for drilling and cutting only but not including welding machines. Welding works shall be done outside the project site premises or other power supply shall be used by the contractor, whichever is more convenient.
- Ω Sample of each fixture, wires, wiring devices, circuit breaker panels shall be submitted for approval by the technical committee or inspection committee of the University prior to their installation. No installation shall be made without the approval of materials by the technical committee of the University.
- Φ Pipes should be installed in a workman like manner, it should be painted the same color as the surface it is installed.
- . h Panel boards, enclosures, pull boxes and wire gutters shall be gauge no. 16 galvanized materials, rust proof and powder coated finish. Panel boards shall be the bolted type complete with tin plated copper busbar.
- φ All circuit breakers shall be bolt-on type and must have a label. It is a must that the arrangement of circuit breakers and busbars shall conform with the panel board diagram provided in the plans approved by the end-user to avoid the occurrences of unbalanced loading.
- ⋾ All wires shall be copper 99%, plastic insulated for 600V type THHN, lead free must be used or approved brand by the technical committee of the University ONLY ONE (1) BRAND OF WIRE SHALL BE USED. stranded, except for the feeder lines, transformer wirings, ecb wirings, THW
- --latest PEC and/or refer the approved plans Conduit/cable tray shall be supported for permanent connection following the
- <u>...</u> No termination of wires shall be done inside the conduits
- ス Color coding of wires shall be observed following the latest PEC: Line A (red), B (yellow), Line C (blue), and Ground (green)
- All switches and convenience outlets shall be the wide series type and shall be rated in 15 amperes respectively. Convenience outlet shall be in 3 wire

The mounting heights of wiring devices shall be as follows:

- Light switches 1.4 m above finished floor line
 Convenience outlets 0.30 m above finished floor line or as required
 Panel Board 1.8 m above finished floor line to the center of the m
 MCCB or as required of the main
- ₽ equipment, metallic raceway system, grounding conductor and neutral conductor or wiring system shall be grounded. The ground connection shall be made at the main service equipment and shall be made to the driven rods on Grounding system - All exposed non-current-carrying metallic parts of electrical the exterior of the building.
- 0 Maximum number of wires inside the cable tray shall be observed (20% of the total cross-sectional area).
- ठ new electrical system is ready to be energized Existing electrical system shall remain functional and normal operation until the
- ٩ All wirings shall be tested for circuit continuity and shall be tested to assure that the wiring system is free of short-circuit, accidental grounding or other defects prior to normal system operation.
- $\overline{}$ equipment Tests shall be performed after all wiring is completed and connected ready for the attachment of the fixtures and equipment and again after fixture and a voltage rating of 500 volts. Reading shall be taken after the voltage has been instrument capable of measuring accurately the resistance involved and having conductors and between each conductor and ground shall be measured continuously for one minute. are connected ready for use. The insulation resistance between the Tests shall be made with
- Ġ Tests shall be done for each item of control equipment will function not less than five times. All tests shall be performed in the presence of the university inspection or technical committee. All test results shall be submitted in three
- systems are free of faults, the contractor shall energize the system from their the contract documents, prior to final inspection. normal power source and confirm that the system is operational as required by Energize the system. After the contractor has assured himself that the wiring
- _ installation procedure and in the plans and drawings as well as in the contract documents before and during the implementation stage, the same should be referred to the end-used, and PPDO for proper resolution of the said conflict. that a conflict arises ⋽. specification and quality of materials

SUPPLEMENTARY PROVISIONS

and/or indicated in the plans, drawings and specifications, except where it is specifically mentioned as "to be provided by others", the contractor shall likewise furnish all materials, labor and equipment necessary to complete the same. In case that a conflict arises in specifications and quality of materials, installation procedure and in the plans and drawings as well as in the other contract documents before and during the implementation stage, the same should be referred to the end-user for proper resolution of the said conflict. All other items or scope of works not mentioned in this document but shown

affected in the execution of the project shall be cleaned and cleared of all excess materials and debris, temporary structures, facilities and utilities used during the construction period. All spillages and scattered caused by the painting work, grouts, adhesives, as well as markings and signage shall likewise be removed to the full satisfaction of the Owner. contractor shall secure from the University clearance or permission related hereto. After all the works have been completed, the surrounding immediate areas quality and design of the materials to be used or their testing before they are installed, embedded in concrete or enclosed with specified covering materials, the Where the above-mentioned items or scope of works require the approval of the

A. Time is a very important factor in the implementation of this project and as such, all works indicated in the plans, specifications and in this document shall be fully completed within SIXTY-FIVE (65) calendar days from receipt of the Notice to Proceed.

B. The Approved Budget for the Project to be bid is The Hundred Nin Thousand Five Hundred Ninety-One and 44/100 Pesos (Php.) 395,591.44 The Hundred Ninety-Five

Prepared by:

Checked by

PHILLIPS, PADRE

D D

AIDA V. CABANG
Chief, Physical Planning Section

LEMUEL JOSPUA P. BAGAYAS Engineer I, E.E.

ROMEO REMEDULAO



BILL OF QUANTITIES

Project Title : Repair and Rehabilitation of Guard House (2 Units)
Project Location : MMSU, City of Batac, Ilocos Norte

1.00
0.50m x 0.50m Awning Window 1/4" thick Tinted Glass on Alanok 2.00 Aluminum Frame (See plan for details)
1.06m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame 4.00 Sliding Window with Steel Grills (See plan for details)
1.55m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame 2.00 Sliding Window with Steel Grills (See plan for details)
windows: 2.08m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame 2.00 Sliding Window with Steel Grills (See plan for details)
0.60m x 2.10m Swing-in Door Hollow Core Flush Type Wood Door with 1.00 Complete Accessories (See plan for details)
0.70m x 2.10m Wood Panel Door with Wooden Jamb and Complete 2.00
0.67m x 2.50m Wood Panel Door with Wooden Jamb and Complete 2.00
163.48
26.28
26.28
00,F
Temporary Connection for Electrical and Water (to be requested) 1.00
1.00
1.00
Quantity

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	Pipes, Conduits and Fittings	1 00	<u></u>
	Conductors, Lead Free		ç
1111	Lighting Fixtures, Wiring Devices, and Others		
9.0	Mobilization/Demobilization		
	Mobilization/Demobilization	1.00	lot

Prepared by: PHILLIP B PADRE

Checked by:

AIDA V. CABANG

Chief, Phsyical Planning Section

Recommending Approval:
ROME REPUBLICAN
Director, PPDO

LEMUEL OSTRUA P. BAGAYAS Engineeri, EE



SPECIFICATION

Project Title: Project Location: Repair and Rehabilitation of Guard House (2 units) MMSU, City of Batac, llocos Norte

≤		<	Z	≡	=		ITEM NO.
Plumbing Works Plumbing Fixtures and Accessories Double Flush Water Closet (with Complete Accessories)	Swing-in Door Hollow Core Flush Type Wood Door with Complete Accessories (See plan for details) Windows: 1/4" thick Tinted Glass on Alanok Aluminum Frame Sliding Window with Steel Grills (See plan for details) Awning Window 1/4" thick Tinted Glass on Alanok Aluminum Frame (See plan for details)	Millworks Doors: Wood Panel Door with Wooden Jamb and Complete Accessories (See plan for details)	Painting Works Skimcoat Flat Latex White (1 coat) Latex Paint - Off White (2 coats)	<u>Ceiling Works</u> 4' x 8' x 4.5mm Cement Board 1" x 3" Metal Furring 1" x 1" Wall Angle	Floor 0.60 x 0.60 Semi Polish tile C.R. Floor and Wall Tiles	Roughing Works Demolition Existing Kitchen Sink Chipping Works Floors and C.R. tiles Cleaning Exterior Wall (can use a pressure washer)	DESCRIPTION

Kitchen Sink with complete accessories and fixtures Stand alone Lavatory (with complete accessories)

Floor Drain

Soap Holder

Tissue Holder

 0.60×0.60 Wall Mounted Mirror with complete accessories

Sewer Line (uPVC Pipes and Fittings)

uPVC Pipe

(Show material sample for approval prior to purchasing of said material)

Water Line (PP-r Pipe and Fittings)

PP-r Pipe PN20

(Show material sample for approval prior to purchasing of said material)

Electrical Works

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Circuit Breakers and Enclosures

General Requirements:

Ga. #16 Galvanized Materials, Powder Coated Finish, with complete Ground Lugs

All bolt-on type Circuit Breakers

Pipes, Conduits and Fittings
It must meet the standard thickness and diameter stated in the program of works.

Lighting Fixtures, and other Wiring Devices

Conductors, Lead Free

It must be UL listed brands, lead free, and at least 99% made from copper wire

Switches must be Wide Series, with Cover Plate Duplex Convenience Outlets must be Wide Series, with Grounding and Cover Plate

12W LED Flat Lamp, E27 Base, 6500K Daylight, 1100 Lumens 3W LED Mini Downlight Round Swivel, 6500K Daylight, 220 Lumens

Prepared By:

Checked by:

AIDA V. CABANG

ROMEO R

Recommending Approval:

Chief, Physical Planning Section

LEMUEL JOSHUA P. BAGAYAS Engineer I, E.E. Engineer



INDIVIDUAL PROGRAM OF WORK

Name/Location of Project:	Appropriations:	ations:				
	Source of Fund	f Fund				
	Issued C	Issued Obligated Authority:	ority:			
Repair and Rehabilitation of Guard House (2 units) Released:	Release	14				
	Calenda	Calendar Days to Complete:	plete:			
	Desirabl	Desirable Starting Date:	ė.			
Project Category: Vertical Construction 0	onstructio	ים				
Project Description:						
Minimum Equipment Requirement		Technical Per	Technical Personal Required			
Description	No.		De	Description		Number
- Livering Control of the Control of						
The state of the s						
EX	TIMATE) COST OF P	ESTIMATED COST OF PROPOSED WORK	RK		
Item Description % of Total	Unit	Quantity	Direct Cost	Indirect Cost	Adjusted Cost	Total Cost
Repair of Guard Houses						
I Roughing Works						
II Tile Works						The state of the s
III Ceiling Works						
IV Painting Works						
V Millworks						
VI Plumbing Works						
VII Electrical Works						
Total	92222					

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DETAILED ESTIMATES

Item No.: 1	Quantity:			
Description: Roughing Works	Unit:		lot	
Description	Quantity	Unit	Unit Price	Sub-Total

	I	ABOR COST			EQ	UIPMENT COST	Γ			ATERIALS COST	3
	Total Labor Cost	Demolition of Exisiting Kitchen Sink (Counter) Chipping of Floor for Tiles including C.R. Cleaning of Exterior Wall (Use of Pressure Washer)	Description		Total Equipment Cost		Description		Total Materials Cost		Description
			Quantity				Quantity				Quantity
			Unit	•			days				Unit
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price
			Sub-Total				Sub-Total				Sub-Total

DIRECT COST:
DIRECT UNIT COST:

Plus Indirect Cost:
OCM
CP
VAT
Indirect Unit Cost:

Total Direct and Indirect Cost:



DETAILED ESTIMATES

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L.A.	BOR COS	т	E	QU C	IPMEN OST	NΤ			MAT	Έ	RIA	ALS	C	os [.]	T		Description:	Item No.:
Total Labor Cost		Description		Total Equipment Cost		Description		Total Materials Cost	+ Cialliona Cutter	A" Diamond Cutter	Tile Grout	Screened Sand	Potland Cement	Tile Adhesive	0.60m x 0.60m Semi Polish Tile	Description	: Tile Works	
		Quantity				Quantity					-					Quantity	Unit:	Quantity:
		Unit				days			TO CO	n Cs	bags	cu.m.	bags	bags	ည်	Unit		
Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total								Unit Price	sq.m.	
		Sub-Total				Sub-Total										Sub-Total		

DIRECT COST: DIRECT UNIT COST:

Plus Indirect Cost:
OCM
CP
VAT
Indirect Unit Cost

Total Direct and Indirect Cost:



DETAILED ESTIMATES

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Item No.: III	Quantity:			
Description: Ceiling Works	Unit:		sq.m.	
Description	Ouantity	1Jnit	Unit Price	Sub-Total

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	Total Labor Cost		Description		Total Equipment Cost		Description		Total Materials Cost	Blind Rivet	1" x 1" Wall Angle	1" x 3" Metal Furring	4' x 8' x 4.5mm Cement Board	Description
			Quantity				Quantity							Quantity
			Unit				days			box	pcs.	pcs.	pcs.	Unit
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total					Unit Price
			Sub-Total				Sub-Total							Sub-Total

DIRECT COST:
DIRECT UNIT COST:

Plus Indirect Cost:
OCM
CP
VAT
Indirect Unit Cost:

Total Direct and Indirect Cost:

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DETAILED ESTIMATES

Item No.: IV		Quantity:			
Description: Painting Works		Unit:		sq.m.	
	Description	Quantity	Unit	Unit Price	Sub-Total

	_AE	BOR COS	Т			UIPMENT COST	Γ			MA	T	ER	IAL	.s (CO	ST		
	Total Labor Cost		Description		Total Equipment Cost		Description		Total Materials Cost	V Tallit Dinail	3 D : : : : : : : : : : : : : : : : : :	4" Paint brush	9" Roller Brush with Pan	Latex Paint - Off White	Flat Latex White	Masonry Putty	Masonry:	Description
			Quantity				Quantity											Quantity
			Unit				days			TO S	200	pcs.	pcs.	gals.	gals.	gals.		Unit
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total									Unit Price
			Sub-Total				Sub-Total											Sub-Total

DIRECT COST:
DIRECT UNIT COST:

Plus Indirect Cost:
OCM
CP
VAT
Indirect Unit Cost:

Total Direct and Indirect Cost:

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DETAILED ESTIMATES

Description: Millworks	Item No.: V	
Unit:	Quantity:	
lot		

	L	ABOR COST	Ī			UIPMEN COST	T						MATE	ERIALS CO	OST			
	Total Labor Cost		Description		Total Equipment Cost		Description		Total Materials Cost	Includes Material, Fabrication, Delivery and Installation	0.50m x 0.50m Awning Window 1/4" thick Tinted Glass on Alanok Aluminum Frame (See plan for details)	1.06m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame Sliding Window with Steel Grills (See plan for details)	1.55m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame Sliding Window with Steel Grills (See plan for details)	2.08m x 1.04m 1/4" thick Tinted Glass on Alanok Aluminum Frame Sliding Window with Steel Grills (See plan for details)	0.60m x 2.10m Swing-in Door Hollow Core Flush Type Wood Door with Complete Accessories (See plan for details) Windows:	0.70m x 2.10m Wood Panel Door with Wooden Jamb and Complete Accessories (See plan for details)	0.67m x 2.50m Wood Panel Door with Wooden Jamb and Complete Accessories (See plan for details)	Description Doors:
			Quantity				Quantity			tallation								Quantity
			Unit				days				set	sets	set	set	o et	set	set	Unit
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total									Unit Price
			Sub-Total				Sub-Total											Sub-Total

DIRECT COST:
DIRECT UNIT COST:

Plus Indirect Cost: OCM CP

VAT Indirect Unit Cost:

Total Direct and Indirect Cost:

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DETAILED ESTIMATES

7		-	
	Description:	Item No.:	
	Description: Plumbing Works	VI	
Olioptin	Unit	Quantity:	
- Init			
Ilnit Drice Sub-Total	lot		
Sub-Total			

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	Total Labor Cost		Description		Total Equipment Cost	THE PROPERTY OF THE PROPERTY O	Description		Total Materials Cost	1/2"dia PPr Gate Valve	1/2"dia PPr Tee	1/2"dia PPr Elbow	1/2"dia PPr Elbow Female Adaptor	1/2"dia PPr Pipe	Water Line Fittings:	PVC Solvent	2" dia PVC P-Trap	2"dia. PVC 1/8 Vent	2"dia. PVC Elbow	2"dia PVC Pipe S1000	4" C.O.	2" x 4" PVC Wye Reducer	4"dia PVC Wye	Sewer Line Fittings: 4"dia PVC Pipe S1000	accessories	0.60 x 0.60 Wall Mounted Mirror with complete	Tissue Holder	Soap Holder	Floor Drain	fixtures	Kitchen Sink with complete accessories and	Stand alone Lavatory (with complete accessories)	Double Flush Water Closet (with Complete Accessories)	Fixtures:	Description
			Quantity				Quantity																												Quantity
			Unit				days			pcs.	pcs.	pcs.	pcs.	sod.		can	pcs.	pc.	рç,	pc.	pc.	pcs.	pc.	p,	ć	SP.	pc.	pc.	pc.	set		set	set •		Unit
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total									All series																	Unit Price
			Sub-Total				Sub-Total																												Sub-Total

DIRECT COST: DIRECT UNIT COST:

Plus Indirect Cost:

OCM CP VAT Indirect Unit Cost

Total Direct and Indirect Cost:

DETAILED ESTIMATES

MATE	ERIALS COST		Item No.: Description:
III. Conductors, Lead Free 14.0mm2 THW 8.0mm2 THW 2.0mm2 THW 2.0mm2 THW SUB-TOTAL (III. Conductors, Lead Free) IV. Wiring Devices Utility Box, 2"X4" Junction box with Cover, Octagonal Duplex Convenience Outlet with Cover Plate, Grounding Type, Wide Series Switches, Wide Series, with Cover Plate 1-gang, Single Pole, Single Throw Switch 2-gang, Single Pole, Single Throw Switch	II. Pipes, Conduits, and Fittings Adapter with Locknut / Straight Connector 20mmØ, PVC Pipe 20mmØ, PVC 25mmØ, EMT Short Elbow 20mmØ, PVC 25mmØ, EMT Coupling 25mmØ, EMT Clamp, with Tox and Screw #8 25mmØ, EMT SUB-TOTAL (II. Pipes, Conduits, and Fittings)	Panelboard - Guard House (Eastern Part) 2P, 2-Wire, 240V with ground in NEMA 1, Wall Mounted Enlosure Main: 60AT, 2P, 30KAIC, 240V, MCCB Branches: 1 - 15AT, 2P, 30KAIC, 240V, MCCB 4 - 20AT, 2P, 30KAIC, 240V, MCCB 1 - 30AT, 2P, 30KAIC, 240V, MCCB 2P, 2-Wire, 240V with ground in NEMA 1, Wall Mounted Enlosure Main: 60AT, 2P, 30KAIC, 240V, MCCB Branches: 1 - 15AT, 2P, 30KAIC, 240V, MCCB Branches: 1 - 15AT, 2P, 30KAIC, 240V, MCCB 4 - 20AT, 2P, 30KAIC, 240V, MCCB	Electrical Works Description Circuit Breakers and Enclosures
ctors, Lead F	ers and Encl		Quantity: Unit: Quantity
meters meters meters meters pcs. pcs. pcs. sets sets	pcs. pcs. pcs. pcs. pcs. pcs. pcs.	set set	Unit
			lot Unit Price
			Sub-Total

	L/	ABOR OST		E		IPMEI OST	NT												
	Total Labor Cost		Description		Total Equipment Cost		Description		Total Materials Cost	SUB-TOTAL (V. Fixtures, and Others)	6500K Daylight, 220 Lumens	3 Watts LED Mini Downlight Round Swivel.	with Screw Ivory, 6A, 250V ~	E27 Ceiling Receptacle, 3 1/2" Diameter,	Daylight, 1100 Lumens	12 Watts LED Flat Lamp, E27 Base, 6500K	V. Fixtures, and Others	SUB-TOTAL (IV. Wiring Devices)	Electrical Tape, Vini, Big
			Quantity				Quantity			es, and Other								ring Devices)	
			Unit				Unit			s)	pcs.		i i	D)	τς.	5			rolls
Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total		Unit Price	Unit Cost	Sub-Total										
			Sub-Total				Sub-Total												

DIRECT COST:
DIRECT UNIT COST:

Plus Indirect Cost:
OCM
CP
VAT
Indirect Unit Cost:

Total Direct and Indirect Cost:



ADDA V. CABANG ANDA V. CABANG ANCHITECTI ьнеранер ву: BJAY A. BAYANG IMMETIANG :Y8 NWAHO

CHECKED/HEATEMED BA: LOCATION: MAISU-TWIN GATE, CITY OF BATAC, ILOCOS NORTE

PROJECT TITLE:

m 28.1

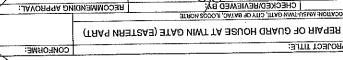
m 00.1

KIŁCHEN SINK (CONNTEH) DEWOTIJION OŁ EXISLING

AIDA V. CABANG CHEE, PHYSICAL PLANING AECTION

DEVELOPMENT OFFICE PHYSICAL PLANNING AND

FROM THE OFFICE:



meters

1:20

REPAIRS TO BE UNDERTRKEN

1. REPAINTING OF INTERIOR WALLS & CEIING

2. REPAIR OF CEILING

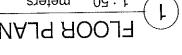
3. INSTALLATION OF NEW ELECTRICAL SYSTEM

4. PROVISION OF NEW DOORS & WINDOWS

4. PROVISION OF NEW DOORS & WINDOWS

2' PLUMBING WORKS

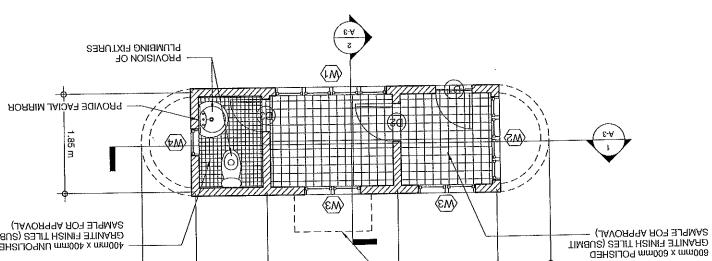
NOTES:





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m 00.1



2.45 m

m 29.2

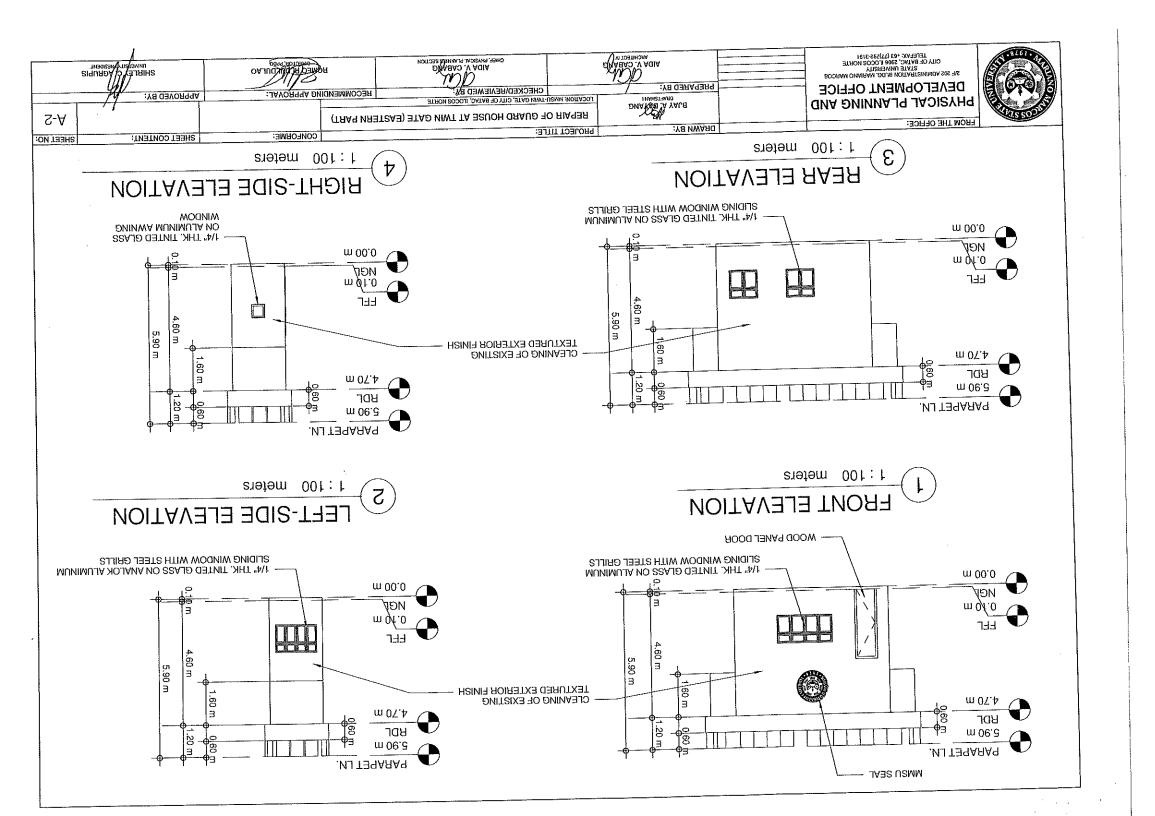
GRANITE FINISH TILES (SUBMIT 400mm x 400mm UNPOLISHED

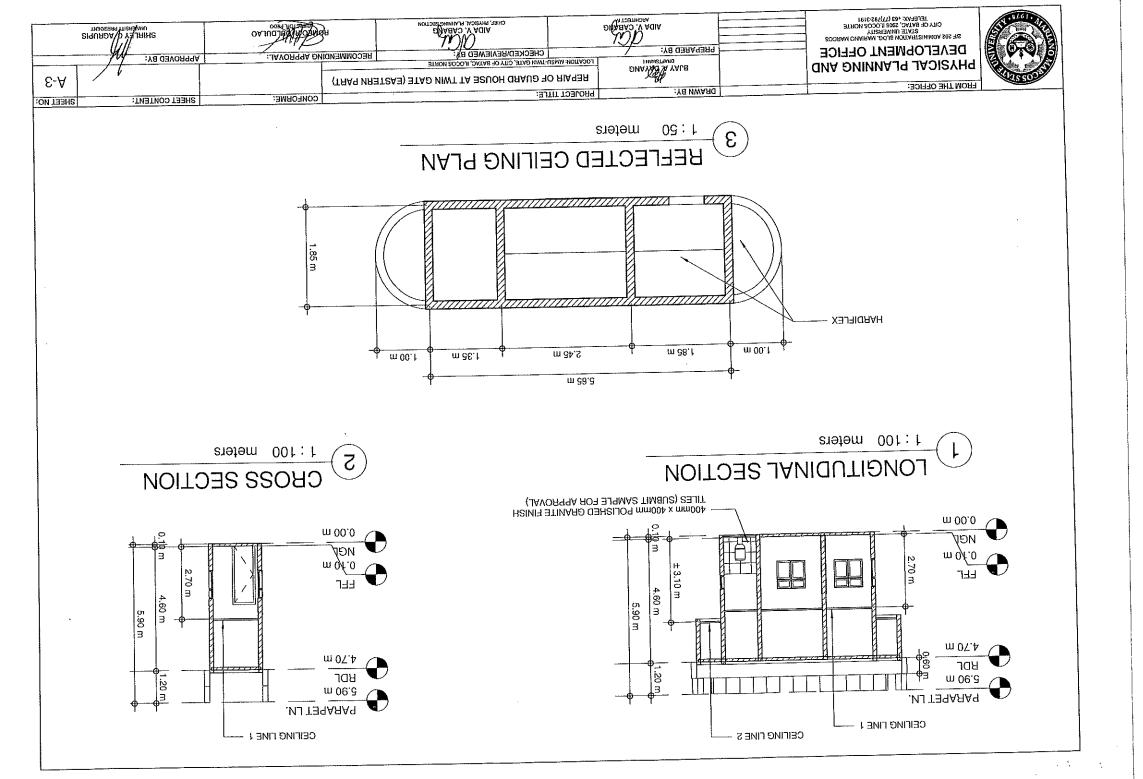
УРРЯОУЕВ ВУ:

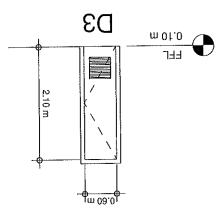
SHEET CONTENT:

I-A

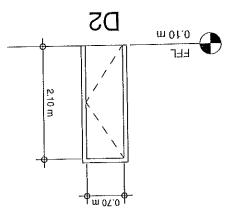
SHEET NO:



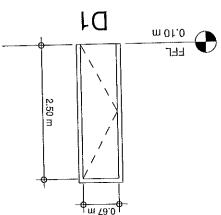




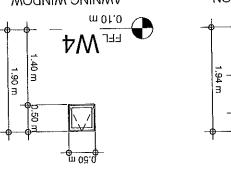
SWING-IN DOOR HOLLOW CORE FLUSH TYPE HOLLOW (LAMINATED) 1 - SET



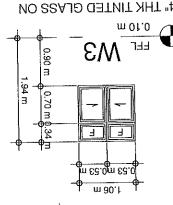
WOOD PANEL DOOR WITH WOODEN JAMB AND COMPLETE ACCESSORIES 1 - SET



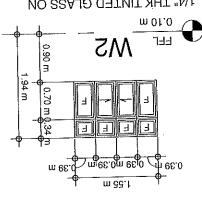
WOOD PANEL DOOR WITH WOODEN JAMB AND COMPLETE ACCESSORIES 1 - SET

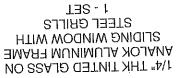


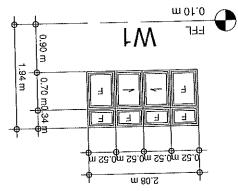
AWNING WINDOW 1/4" THK TINTED GLASS ON 1 - SET 1 - SET



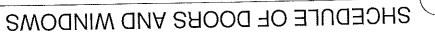
1/4" THK TINTED GLASS ON SLIDING WINDOW WITH STEEL GRILLS 2 - SETS

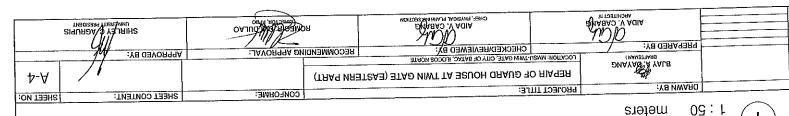






1/4" THK TINTED GLASS ON ANALOK ALUMINUM FRAME SLIDING WINDOW WITH STEEL GRILLS 1 - SET









HOTIWG BUAD &	£8
2 GANG SWITCH	28
1 GANG- SINGLE POLE TOGGLE SWITCH 15A, 300V	IS
CONVENIENCE OUTLET	₩
ЗМ ГЕД МІИІ ДОМИГІЄНТ, 220 LUMENG	•
9200K DAXFIGHT, 1100 LUMENG 12W LED FLAT LAMP, E27, BASE,	©
СІВСПІТ НОМЕВЛИ	ou (
екопир	4
KILOWATT HOUR METER	
PANEL BOARD	
CIECUIT BREAKER	
SERVICE ENTRANCE	√ -m
DESCRIPTION	SYMBOL



АРРЯОУЕО ВУ:

SHEET CONTENT:

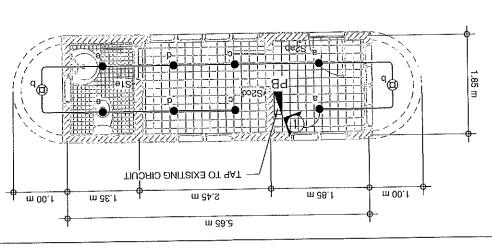
I-3

SHEET NO:

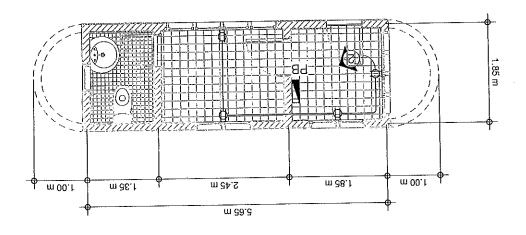
RECOMMENDING APPROVAL:

CONFORME:

REPAIR OF GUARD HOUSE AT TWIN GATE (EASTERN PART)



1:50 meters NAJ9 TUOYAJ ĐNITHĐI,



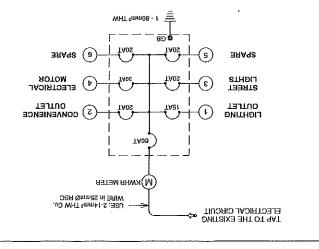
1:50 meters CONVENIENCE LAYOUT PLAN

NAIRAM - BLOG. MARINISHINUS SOS FIS STATE UNWERSITY CITY OF BATAC, 2906 ILOCOS NOI TELEAVITY, CB+ :XATELET DEVELOPMENT OF PHYSICAL PLANNIN FROM THE OFFICE:

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UG AND

CHECKED/BEATEMED BX: :Ү8 СЭЯАЧЭЯЧ DNAYAU A YALB IMAZITARO

DRAWN BY:



JATOT		7720		6669'88							
9	SPARE	AV0021	530	6,5217	s	001	SO	2 - 3.5mm²	NHHT	NMOS	bΛC
9	SPARE	AV0031	230	6.5217	S	100	50	2 - 3.5mm²	NHHT	SOMM	bΛC
7	2.0 HP ELECTRIC MOTOR	AV03TS	230	12.00	S	100	30	2 - 3.5mm²	NHHT	SOMM	bΛG
3	(EXISTING)	AV00S1	530	5.2174	5	100	SD	\$ - 3.5mm²	NHHT	SOMM	5AC
2	4 - 180VA CONVENIENCE OUTLET	AVOST	530	3,1304	2	001	50	²mm2.5 - S	NHHT	SOMM	5AC
	8 - 3М ГЕД МІИІ ДОМИГІСНІ ВОЛИД ЗМІЛЕГ	AVAS								+	
,	2 - 12W LED FLAT LAMP	AVAS	230	7802.0	2	100	91	2 · 2.0mm²	NHHT	MMOS	PVC
изамом	FOVD DESCRIBLION	GAOJ	SIJOA	спвнеит	3104	∃∀	TA	∃ZI\$	TYPE	DIAMETER	TYPE
TIUORIO	Hollologad dvo 1	AV	STION	TUBBBB	เทวษเว	I BREA	HE)	соивпс	HO.	COND	Щ

COMPUTATION OF LOAD:

6669°EC = 731

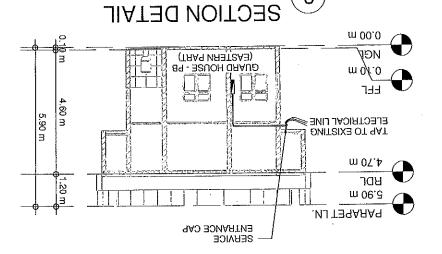
USB Smm2 ni WHT smm0.8-1 & WHT smm0.4-1-2 = 38U

реерей ряотестіой:

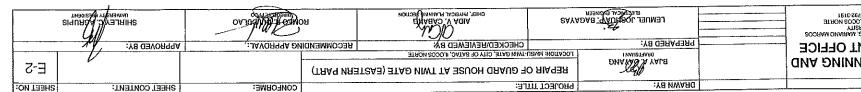
USE = 2 POLE, 60AT, 240V, 100AF, 60Hz, MCB

SCHEDNIE OF LOADS





1:100 meters



DEVELOPMENT OFFICE РНҮЅІСА РРАИЛИЯ АИВ FROM THE OFFICE:

1.85 m	TO EXISTING WCO TO ED TO EXISTING			
Ψ ພ	00.1 m 86.1	L m 24.5 m	m 38. t	Д т 00.1 Д
	-	m		

	meters	03: r	
NAJ9 TUOYAJ	EBLINE	REM	(F)

	meters	1:50	
NAJY TUUYAJ	=ערוואב	2EAA	

1.85 m		O O O O O O O O O O O O O O O O O O O			
-	₽ m 00.1	m.36.1 ·	m 24.S	m 28.1	m 00.1
	-(-	m 38.3		

WATERLINE LAYOUT PLAN Signal S

 3 LLUMBING SYMBOLS

SEWAGE LINE ROOF LEADER LINE **BULL RETTAW**

MATER METER GATE VALVE

CHECK NALVE

KILCHEN SINK

DOWNSPOUT

VENT STACK PIPE **TAUCET**

CLEAN OUT

HOSE BIB8

SHOWER VALVE

SHOWER DRAIN SHOWER HEAD

FLOOR DRAIN

YROTAVAJ

WATER CLOSET

DESCRIPTION

-W-

-DV

11

KS

sp dSΛ

UAA

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HB ۸S

as

HS

ПH

ΛAΙ

MC

SYMBOLS

:	SHIRLET CAGRUPIS UNIVERSITY FRESIDENT	PECOMMENDING APPROVALY RECOMMENDING APPROVALY	CHECKED/HEVIEWED BY/	ĐANILA G	ERANZ EKANGE	2/F 802 ADMINISTRATION BLOG. MANHANO MARGOS CITY OF BATAC, 2808 (LOCOS MORTE TELEFAK: 463 (77)/92-3191	
ŀ-q			PAIR OF GUARD HOUSE AT TWIN GATE (EASTERN PART) NICH: MASU-TWIN GATE, CITY OF BATAC, A DOCOS NORTE NICH: MASU-TWIN GATE, CITY OF BATAC, A DOCOS NORTE NORTH CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROLL OF T		DNAYAO'A YALB	PHYSICAL PLAUNING AND DEVELOPMENT OFFICE	
SHEET NO:	SHEEL CONTENT:	CONFORME:	ग्राहः	beotect II.	DHAWN BY:	FROM THE OFFICE:	