



MARIANO MARCOS STATE UNIVERSITY

Bids and Awards Committee

BID BULLETIN No. 20-21

**Project: Electrical Works for Center for Flexible Learning, MMSU Library, City of Batac, I.N.
ABC: P5,571,548.62**

Subject: Delivery Period

Notice is hereby given to all interested bidders of the following clarifications:

1. The following Bidding Documents are revised. You may download the revised form at our website, www.edu.ph or at the BAC Secretariat Office located at the MMSU FEM Hall Extension Office, City of Batac:
 - a. Bill of Quantities
 - b. Technical Specifications
 - c. Detailed Estimates
2. On Conductors, lead free, the 175.0 mm² THW will be changed to 200 mm²

For the guidance and information of all concerned.


AMI RUTH R. COCSON
Chair



SPECIFICATION

ITEM NO.	DESCRIPTION
I.	<p>TRANSFORMERS AND METERS :</p> <p>General Requirements :</p> <p>Submit test results, in triplicate copies.</p> <p>PCB Free Certification from the manufacturer.</p> <p>Transformer Pad must be the typical available design of the university.</p>
II.	<p>PANELBOARDS, ENCLOSURES, PULL BOXES, & WIRE GUTTERS (RUSTPROOF)</p> <p>General Requirements :</p> <p>Specifications : Ga. 16 Galvanized Materials, Powder Coated Finish, Complete ground lugs, Bolted Type Construction</p> <p>Circuit Breaker : All bolt-on type Circuit Breakers</p> <p>Panel board assembly must be subject to inspection of the end user before installation.</p>
III.	<p>PIPES, CONDUITS, & FITTINGS</p> <p>It must be painted the same color as the surface where it is installed.</p>
IV.	<p>CONDUCTORS, LEAD FREE</p> <p>UL listed brands, lead free, and 100% Copper Wire.</p>
V.	<p>WIRING DEVICES</p> <p>Install junction boxes, if necessary.</p> <p>Install fabricated supports, if necessary.</p>
VI.	<p>TRANSFORMER PAD (CIVIL WORKS)</p> <p>Earthworks</p> <p>Gravel G1</p> <p>Soil Positioning</p> <p>Gravel 3/4</p> <p>Concrete Works</p> <p>Portland Cement</p> <p>Sand (S-1)</p> <p>3/4" Gravel</p> <p>Reinforcing Steel</p> <p>10mmØ X 6m RSB</p> <p>12mmØ X 6m RSB</p> <p>16mmØ X 6m RSB</p> <p>#16 Tie Wire</p> <p>Consumables</p> <p>Formworks and Falseworks</p> <p>Ordinary Plywood</p> <p>Good Lumber</p> <p>Assorted Common Wire Nails</p> <p>Consumables</p>



Republic of the Philippines
MARIANO MARCOS STATE UNIVERSITY
City of Batac, 2906, Ilocos Norte

BILL OF QUANTITIES

ITEM NO.	DESCRIPTION		
I.	ELECTRICAL WORKS		
	Transformers and Meters	1.00	lot
	Panelboards, Enclosures, Pullboxes, and Wire Gutters (Rustproof)	1.00	lot
	Pipes, Conduits, and Fittings	1.00	lot
	Conductors, Lead Free	1.00	lot
	Wiring Devices	1.00	lot
II.	TRANSFORMER PAD (CIVIL WORKS)		
	Earthworks	6.00	cu. m.
	Concrete Works	27.00	cu. m.
	Reinforcing Steel	2122.69	kg.
	Formworks and Falseworks	1.00	lot
	Masonry and Plastering Concrete / Masonry Plastering	42.72 69.43	sq. m. sq. m.
	Painting Works	30.21	sq. m.
	Steel Works	1.00	lot
	Waterproofing	1.00	lot

Prepared By :


LEMUEL JOSHUA P. BAGAYAS
Electrical Engineer


JEREMIAH ROGER P. CALUYA
Civil Engineer

Checked by :


FREDDIE MICHAEL S. BALANAY
Chief, Electrical Section


AIDA V. CABANG
Chief, Physical Planning Section

Recommending Approval :


ROMEO R. DULDULAO
Director, BPPD

Masonry and Plastering Works

Concrete / Masonry

5" CHB
Portland Cement
Sand (S-1)
10mmØ X 6m RSB
#16 Tie Wire

Plastering

Portland Cement
Fine Sand

Painting Works

Steel

Oxide Primer
Enamel Paint
Paint Thinner
Consumables

Steel Works

1-1/4" Ø GI Pipe Sched. 40
12mm Round Bar
1" X 1/4" Flat Bar
16mm Pillow Block
16mm Shafting Rod
Standard Canebolt
Standard Padlockable Slide Bolt
Welding Rod
14" Cut Off Disc

Waterproofing

Cement-based waterproofing


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DETAILED ESTIMATES

Item No.: II	Quantity: 1.00
Description: Transformer Pad (Civil Works)	Unit: lot

Description	Quantity	Unit	Unit Price	Sub-Total
I. Earthworks				
Gravel G1		cu.m.		-
Soil Positioning		liter		-
Gravel 3/4		cu.m.		-
SUB-TOTAL I. (Earthworks)				-
II. Concrete Works				
Portland Cement		bags		-
Sand (S-1)		cu.m.		-
3/4" Gravel		cu.m.		-
SUB-TOTAL II. (Concrete Works)				-
III. Reinforcing Steel				
10mmØ X 6m RSB		kgs.		-
12mmØ X 6m RSB		kgs.		-
16mmØ X 6m RSB		kgs.		-
#16 Tie Wire		kgs.		-
Consumables		lot		-
SUB-TOTAL III. (Reinforcing Steel)				-
IV. Formworks and Falseworks				
Ordinary Plywood		pcs.		-
Good Lumber		board ft.		-
Assorted Common Wire Nails		kgs.		-
Consumables		lot		-
SUB-TOTAL IV. (Formworks and Falseworks)				-
V. Masonry and Plastering Works				
Concrete / Masonry = 42.715 sq.m.				
5" CHB		pcs.		-
Portland Cement		bags		-
Sand (S-1)		cu.m.		-
10mmØ X 6m RSB		kgs.		-
#16 Tie Wire		kgs.		-
Plastering =				
Portland Cement		bags		-
Fine Sand		cu.m.		-
SUB-TOTAL V. (Masonry and Plastering Works)				-
VI. Painting Works				
Steel =				
Oxide Primer		gals.		-
Enamel Paint		gals.		-
Paint Thinner		gals.		-
Consumables		lot		-
SUB-TOTAL VI. (Masonry and Plastering Works)				-
VII. Steel Works				
1-1/4" Ø GI Pipe Sched. 40		pcs.		-
12mm Round Bar		pcs.		-
1" X 1/4" Flat Bar		pcs.		-
16mm Pillow Block		pcs.		-
16mm Shafting Rod		pc.		-
Standard Canebolt		sets		-
Standard Padlockable Slide Bolt		sets		-
Welding Rod		kgs.		-
14" Cut Off Disc		pcs.		-
SUB-TOTAL VII. (Steel Works)				-
VIII. Waterproofing				
Cement-based waterproofing		pails		-
SUB-TOTAL VIII. Waterproofing				-

EQUIPMENT COST	Description	Quantity	Unit	Unit Price	Sub-Total
	Plate Compactor		days		-
	One Bagger Mixer		days		-
	Bar Cutter		days		-
	Bar Bender		days		-
	Welding Machine		days		-
	Cutt Off Machine		days		-
	Minor Tools		lot		-
Total Equipment Cost				Sub-Total	-
				Unit Cost	-
LABOR COST	Description	Quantity	Unit	Unit Price	Sub-Total
	1 - Construction Foreman		days		-
	3 - Skilled Laborer		days		-
	4 - Unskilled Laborer		days		-
	Total Labor Cost				Sub-Total
				Unit Cost	-

DIRECT COST: -

DIRECT UNIT COST: -

Plus Indirect Cost:

12% OCM -

8% CP -

5% VAT -

Indirect Unit Cost: -

Total Direct and Indirect Cost: -