BILL OF QUANTITIES

Project: SUPPLY AND INSTALLATION OF 1.5 MVA DISTRIBUTION TRANSFORMER FOR THE OCA ASEANA BUILDING

Duration:

250 Calendar Days

ITEM NO.			QTY.	UNIT	DIRECT COST				
				0.01	MATERIAL	LABOR	EQUIPMENT	UNIT COST	TOTAL COST
I		GENERAL REQUIREMENTS							
	Α.	Mobilization/ Demobilization	1	lot					
	в.	Temporary Facilities (Offices, work shops, storage, office supplies and	1	lot					
		workmen accomodation for contractor)	I						
	С	Processing of necessary Permits, Clearances, and Certificates	1	lot					
	D	Taxes, Fees and Charges (includuding importation tax, fees and other charges applicable)	1	lot					
	Е	Bonds, Sureties & Insurances	1	lot					
	F.	Produce and print Bill of Materials, Bill of Quantities and Five (5) sets signed and sealed As-Built Drawings in blueprint and A3 size of papers, shop drawings, and a copy in PDF and CAD files, and weekly progress reports	1	lot					
	G	Safety Gears/Personal Protective Equipment and other safety Paraphernalia	1	lot					
	н	Safety Requirements againts COVID19 under DPWH DO.39	1	lot					
	I	Heavy Equipment Rental	1	lot					
								DIRECT COST	
								MARK-UP	
								VAT	
								SUB-TOTAL I	
II		ELECTRICAL WORKS							
		Construction/Installation of First Private Pole (34.5 KV incoming). This							
	Α.	includes complete supply of labor and materials for civil and electrical	1	lot					
	-	work							
		1 First Private Pole, 34.5KV complete with Load Break Switch, Power Fuse,							
	-	and Lighting Arrester							
	-	2 Excavation/backfilling works, Hauiling and Pole Erection							
	-	3 Pole Line Hardware and Accessories							
	-	4 Bare Copper Wire							
	-	5 Messenger Wire							
	L	6 Copper-Clad Grounding Rod							
	L	7 Grounding Cable							
	L	8 Grounding Mat							
	L	9 Equipment Rental							
	L	10 Miscellaneous and Consumables							
		SUB TOTAL A							

	Sumply delivery estimated installation of 1 FMI/A Dad Mounted					
В	Supply, delivery, setting and installation of 1.5MVA Pad Mounted Transformer 34.5KV/230V,3Ph, 60hz with complete accessories	1	lot			
	SUB TOTAL B					
	Supply, delivery, and installation of New Main Distribution Panel,					
	230V,3Ph, 60hz System in NEMA-1 Enclosure with Digital Multi-meters &					
	LED power indicators:					
С		1	Assy.			
	Main : (To be sized based on the size of New Transformer)					
	Branches : 1 - 3200AT/3200AF, 3P, 500V, 60hz, ACB					
	1 - 500AT/600AF, 3P, 500V, 60hz, MCCB					
	SUB TOTAL C					
	Supply, delivery, and installation of additional Sub-Distribution Panel,					
	230V,3Ph, 60hz System in NEMA-1 enclosure:					
D		1	Assy.			
	Main : 1 - 500AT/600AF, 3P, 500V, 60hz, MCCB					
	Branches : 4 - 100AT/150AF, 3P, 500V, 60hz, MCCB					
	SUB TOTAL D					
E	Wire and Cabling Works for Equipments (Transformer, New MDP, Sub-DP	1	lot			
	1 Supply and installation of HV Cables, Cu.XLPE/PVC					
	2 Supply and installation Termintation Kit					
	3 Supply and installation LV Cables					
	4 Wiring Accessories and Supports					
	5 Supply and installation Conduits, Accessories and Supports					
	6 Supply and installation of various Cable Ladder with and without Covers					
	(Hot-Dipped Galvanized and Powdercoated)					
	7 Cable Ladder accessories and Hanger Supports					
	8 Earthing Materials					
	9 Miscellaneous and Consumables					
	SUB TOTAL E					
F	Supply and installation of Grounding System at Transformer Area	1	lot			
	1 Earth Terminal Panel					
	2 Wires and Cables					
	3 Wiring Accessories and Supports					
	4 Grounding Rod					
	5 Conduits, Fittings, Supports and Accessories					
	6 Miscellaneous and Supporting Materials					
	SUB TOTAL F					
G	Testing and Commissioning	1	lot			
	SUB TOTAL G					
н	Provision for Temporary Power (As needed)	1	lot			
	SUB TOTAL H					
					DIRECT COST	
					MARK-UP	
					VAT	
					SUB-TOTAL II	

III	1	CIVIL WORKS					
	Α.	Related Civil works for the concrete pedestal, duct bank, concrete pads for	1	lot			
		1 Concrete Foundation and Pads (Transformer and Panelboards)					
		2 Construction of Concrete Pedestal					
	1	3 Construction of Duct Bank					
		4 Cable Trench with Cover					
		5 Concrete Breaking, Excavation and Back Filling Works					
		6 Hauling and Disposal of Debris					
		7 Compaction and Form Works					
		8 Scafforlding Works					
		9 Supporting Materials (Seismic Anchorage and J-Bolts)					
		10 Equipment Rental (Hauling Truck, Concrete Mixer and Demolition)					
		11 Miscellaneous and Consumables					
		SUB TOTAL A					
	В.	Construction and/or improvements of Transformer Room	1	lot			
		1 Supply and installation of Metal Louvers for door and window/wall					
		2 Re-roofing and ceiling works					
		3 CHB and plastering works					
		4 Danger Signage					
		5 Demolition of existing wall and slab					
		6 Fire Resistant Painting Materials					
		7 Miscellaneous Materials					
		SUB TOTAL B					
	С.	Overall Restoration Works	1	lot			
		SUB TOTAL C					
						DIRECT COST	
						MARK-UP	
						VAT	
						SUB-TOTAL III	
					GRAND	FOTAL (I + II + III)	

PREPARED BY: (PINTED NAME AND SIGNATURE)

DATE:

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: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Project	: Supply an
Item No./ Description	: Mobilizatio
Unit of Measurement	: lot
Output per hour	:

: Mobilization/ Demobilization

				1	1
	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment	NO. OF UTILIS	NO. OF HOUL/S	Houriy Rate	Amount (Php)
	Trailer trcuk	1			
	Sub-Total for B				0
C. D. E.	Total (A+B)				0
D.	Output per Hour =	1.00			
E.	Direct Unit Cost (C+D)		a 11		0
F.	Name of Specification Materials	Unit	Quantity	Unit Cost	Amount (Php)
	Sub-Total for F				0
G.	Direct Unit Cost (E + F)				0
H.	Overhead, Contingencies & Miscellaneous (OCM)	Expenses	4%	of G	0
H. I. J. K.	Contractor's Profit (CP)			of G	0
J.	Value Added Tax (VAT)			of (G+H+I)	0
K.	Tota Unit Cost			(G+H+I+J)	0
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Project

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Item No./ Description

: Temporary Facilities (Offices, work shops, storage, office supplies and workmen accomodation for contractor)

Unit of Measurement : lot

Output per hour 1 Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) A. Labor Sub-Total for A 0.00 Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Printer 1 Personal Computer 1 Sub-Total for B 0 C. Total (A+B) 0.00 D. Output per Hour = 1.00 E. Direct Unit Cost (C+D) 0.00 Name of Specification Unit Unit Cost Quantity Amount (Php) F. Materials Temporary Facilities (Offices, work shop, storage, office supplies and 250.00 days workmen accomodation for contractor) Sub-Total for F 0 Direct Unit Cost (E + F) G. 0.00 Overhead, Contingencies & Miscellaneous (OCM) Expenses H. 4% of G 0.00 Contractor's Profit (CP) 4% of G 0.00 II. Value Added Tax (VAT) 5% of (G+H+I) 0.00 J. Tota Unit Cost (G+H+I+J) 0.00 K.

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

: Processing of necessary Permits, Clearances, and Certificates : lot

1

Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Labor A. Liason Officer 1 Sub-Total for A 0 Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Sub-Total for B 0 Total (A+B) 0 C. D. Output per Hour = 1.00 Direct Unit Cost (C+D) 0 E. Name of Specification Unit Quantity Unit Cost Amount (Php) F. Materials Building Permits lot 1.00 Permits fromm ABPEA and Meralco lot 1.00 Inspection Certificate 1.00 lot Installation Certificate 1.00 lot Permit to Operate lot 1.00 Clearances 1.00 lot Sub-Total for F 0 Direct Unit Cost (E + F) G. 0 Overhead, Contingencies & Miscellaneous (OCM) Expenses H. 4% of G 0 Contractor's Profit (CP) 4% of G Value Added Tax (VAT) 5% of (G+H+I) 0 J. Tota Unit Cost K. (G+H+I+J) 0

Item No./ Description Unit of Measurement Output per hour

Project

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Project Item No./ Description Unit of Measurement Output per hour

: lot

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

: Taxes, Fees and Charges (includuding importation tax, fees and other charges applicable)

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)	
A.	Labor			, ,		
	Sub-Total for A				0	
_	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)	
В.	Equipment					
	Cub Tatal for D				0	
`	Sub-Total for B Total (A+B)				0	
C. D.	Output per Hour =	1.00				0
D. E.	Direct Unit Cost (C+D)	1.00				0
с.	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)	0
F.	Materials	Unit	Quantity	Unit Cost	Anount (Filp)	
••	Imporation Tax and Charges	lot	1.00			
	Local Taxes and Charges	lot	1.00			
	Meralco and ABPEA Fees and					
	Charges	lot	1.00			
	Sub-Total for F					٥
G.	Sub-Total for F Direct Unit Cost (E + F)					
	Direct Unit Cost (E + F)	Expenses	Δ%	o of G		0
H.	Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM)	Expenses		o of G		0
G. H. I.	Direct Unit Cost (E + F)	Expenses	4%	5 of G 5 of G 5 of (G+H+I)		000000000000000000000000000000000000000

Project : Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Bu	laing
Item No./ Description : Bonds, Sureties & Insurances	
Unit of Measurement : lot	
Output per hour : 1	

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	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				
	Liason Officer	1			
	Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment				
	Sub-Total for B				0
C.	Total (A+B)				0
D.	Output per Hour =	1.00			0
D. E.	Direct Unit Cost (C+D)	1.00			0
с.	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials	Unit	Quantity	Unit Cost	Alloulit (Flip)
г.	Performance Bond	lot	1.00		
	Guarantee and Surety Bonds	lot	1.00		
	Contractor's All Risk Insurance/ Bonds				
	Warranty Bonds	lot	1.00		
		lot	1.00		
	Sub-Total for F				0
G.	Direct Unit Cost (E + F)				0
H.	Overhead, Contingencies & Miscellaneous (OCM)	Expenses	49	% of G	0
I.	Contractor's Profit (CP)			% of G	
 J.	Value Added Tax (VAT)			% of (G+H+I)	0
б. К.	Tota Unit Cost		07	(G+H+I+J)	0
IN.					0

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: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Item No./ Description

Project

Produce and print Bill of Materials, Bill of Quantities and Five (5) sets signed and sealed As-Built Drawings in

Unit of Measurement Output per hour

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blueprint and A3 size of papers, shop drawings and a copy in PDF and CAD files, and weekly progress reports : lot

Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Labor Α. Professional Electrical Engineer 1 CAD Operator 1 Staff 1 Sub-Total for A 0 No. of Unit/s Amount (Php) Name of Capacity No. of Hour/s Hourly Rate В. Equipment Printer Machine/s Personal Computer/s Sub-Total for B 0 Total (A+B) C. 0 D. Output per Hour = 1.00 Direct Unit Cost (C+D) E. 0 Name of Specification Unit Unit Cost Quantity Amount (Php) Materials F. A0-A4 Sizes of Paper 1.00 lot Flashdrive 1.00 рс Blue Print Signed and Sealed As-Built 5.00 set Plan (20x30) inches Signed and Sealed As-Built Plan in A3 5.00 set size of paper Signed and Sealed Shop Drawings 1.00 lot Weekly Progress Reports 1.00 lot BOQ lot 1.00 BOM 1.00 lot Sub-Total for F 0 G. Direct Unit Cost (E + F) 0.00 H. Overhead, Contingencies & Miscellaneous (OCM) Expenses 4% of G 0.00 Contractor's Profit (CP) 4% of G 0.00 Value Added Tax (VAT) 0.00 5% of (G+H+I) Tota Unit Cost 0.00 (G+H+I+J) κ

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Project Item No./ Description Unit of Measurement Output per hour : Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

: Safety Gears/Personal Protective Equipment and other safety Paraphernalia : lot

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				
	Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment			,	
_	Sub-Total for B				0
C. D.	Total (A+B)				0
D.	Output per Hour =	1.00			
E.	Direct Unit Cost (C+D)				0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials				
	Hard Hat	lot	1.00		
	Dusk Mask	lot	1.00		
	Vest	lot	1.00		
	Body Harness and Landyards	lot	1.00		
	Eye google	lot	1.00		
	Welding Mask	lot	1.00		
	Gloves	lot	1.00		
	Safety shoes	lot	1.00		
	Safety and Caution signages	lot	1.00		
	Barriers	lot	1.00		
	Sub-Total for F				0
G. H. I.	Direct Unit Cost (E + F)				0.00
Н.	Overhead, Contingencies & Miscellaneous (OCM) Expenses		% of G	0.00
I.	Contractor's Profit (CP)			% of G	0.00
J. K.	Value Added Tax (VAT)		5	% of (G+H+I)	0.00
Κ.	Tota Unit Cost			(G+H+I+J)	0.00

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

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0

0

0.00

0.00

0.00

0.00

0.00

5% of (G+H+I)

(G+H+I+J)

: Safety Requirements Againts COVID19 under DPWH DO. 39 : lot

1 Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Α. Labor Sub-Total for A Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Sub-Total for B Total (A+B) C. D. Output per Hour = 1.00 Direct Unit Cost (C+D) E. Name of Specification Unit Unit Cost Quantity Amount (Php) F. Materials Facemask lot 1.00 Ethyl alcohol lot 1.00 Liquid hand soap lot 1.00 Vitamins (Vitamins C with Zinc) lot 1.00 Paracetamol 1.00 lot RT-PCR Swab Test (As needed) lot 1.00 Sub-Total for F Direct Unit Cost (E + F) G. Overhead, Contingencies & Miscellaneous (OCM) Expenses H. 4% of G Contractor's Profit (CP) 4% of G

Project Item No./ Description Unit of Measurement Output per hour

Value Added Tax (VAT)

Tota Unit Cost

J.

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Project	Supply and Installation of 1.5	5 MVA Distribution Transformer for the OCA Aseana Building
Item No./ Description	Heavy Equipment Rental	
Unit of Measurement	lot	
Output per hour	: 1	

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				
	Driver/Operator	2			
	Cub Tatal for A				0
	Sub-Total for A Name of Capacity	No 611 14/-	No. of Usuala	Usual Data	0
В.	Equipment	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
в.	Hauling Truck	1			
	Lifting Equipment	1			
	Welding Machine	1			
	Boom Truck	1			
		I			
	Sub-Total for B				0
C.	Total (A+B)				0
D.	Output per Hour =	1.00			
E.	Direct Unit Cost (C+D)				0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials				•
1					
					-
	Sub-Total for F				0
G.	Direct Unit Cost (E + F)		101		0.00
H.	Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM) Expenses		of G	0.00
H. I.	Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM Contractor's Profit (CP)) Expenses	4%	of G	0.00 0.00 0.00
H.	Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM) Expenses	4%		0.00

Project

Item No./ Description

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Construction/Installation of First Private Pole (34.5 KV incoming). This includes complete supply of labor and

materials for civil and electrical works tot

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Unit of Measurement Output per hour

Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Α. Labor Professional Electrical Engineer 1 Electrical Engineer 1 Safety Officer 1 Electrical Foreman 1 Skilled Laborer 5 Sub-Total for A 0 Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Hauling Truck 1 Lifting Equipment 1 Excavation Tools and Equipment 1 Sub-Total for B 0 C. Total (A+B) 0 D. Output per Hour = 1.00 Direct Unit Cost (C+D) E. ٥ Name of Specification Unit Quantity Unit Cost Amount (Php) F. Materials First Private Pole, 34.5KV complete with Load Break Switch, Power Fuse, 1.00 Assy. and Lighting Arrester Pole Line Hardware and Accessories 1.00 lot Bare Copper Wire lot 1.00 Messenger Wire 1.00 lot Copper-Clad Grounding Rod 1.00 lot Grounding Cable 1.00 lot Grounding Mat 1.00 lot Miscellaneous and Consumables lot 1.00 Sub-Total for F 0 Direct Unit Cost (E + F) 0.00 G. Overhead, Contingencies & Miscellaneous (OCM) Expenses H. 8% of G 0.00 Contractor's Profit (CP) 8% of G 0.00 ١. Value Added Tax (VAT) 5% of (G+H+I) 0.00 J. Tota Unit Cost 0.00 (G+H+I+J) κ

Proje	ct :	Supply and Installation of 1.5			
Item	No./ Description		installation of 1.5MVA Pad M	lounted Transformer 34.5K	V/230V,3Ph, 60hz with
		complete accessories lot			
	ut per hour :				
outp		'			
	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				· · · · ·
	Professional Electrical Engineer	1			
	Electrical Engineer	1			
	Safety Officer	1			
	Electrical Foreman	1			
	Skilled Laborer	5			
	Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment	•			•
	Hauling Truck	1			
	Lifting Equipment	1			
	Sub-Total for B				0
C.	Total (A+B)				0
о. D.	Output per Hour =	1.00			0
E.	Direct Unit Cost (C+D)				0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials	ļ			
	Supply, delivery, setting and				
	installation of 1.5MVA Pad Mounted				
	Transformer 34.5KV/230V,3Ph, 60hz	Assy	1.00		
	with complete accessories				
1					
	Sub-Total for F				0
G.	Sub-Total for F Direct Unit Cost (E + F)				0 0.00
<u>G.</u> Н.		/) Expenses	8%	of G	
	Direct Unit Cost (E + F)	/) Expenses		of G of G	0.00
H.	Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM	/) Expenses	8%		0.00

Project

Item No./ Description

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

, Supply, delivery, and installation of New Main Distribution Panel, 230V, 3Ph, 60hz System in NEMA-1 Enclosure

with Digital Multi-meters & LED power indicators : Assy

1

:

Unit of Measurement Output per hour

Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Α. Labor Electrical Engineer 1 Safety Officer 1 Electrical Foreman 1 Skilled Laborer 2 Sub-Total for A 0 Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Hauling Truck 1 Lifting Equipment 1 Sub-Total for B 0 Total (A+B) 0 C. D. Output per Hour = 1.00 Direct Unit Cost (C+D) E. 0 Name of Specification Unit Quantity Unit Cost Amount (Php) F. Materials Supply, delivery, and installation of New Main Distribution Panel, 230V,3Ph, 60hz System in NEMA-1 Enclosure with Digital Multi-meters & LED power indicators: Main : To be sized based on the 1.00 Assy size of New Transformer Branches : 1 - 3200AT/3200AF, 3P, 500V, 60hz, ACB 1 - 500AT/600AF, 3P, 500V, 60hz, мссв Sub-Total for F 0 Direct Unit Cost (E + F) G. 0.00 Overhead, Contingencies & Miscellaneous (OCM) Expenses 0.00 Н. 8% of G Contractor's Profit (CP) 0.00 8% of G I. Value Added Tax (VAT) 5% of (G+H+I) 0.00 J. Tota Unit Cost (G+H+I+J) 0.00 κ

Project	: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building
Item No./ Description	Supply, delivery,and installation of additional Sub-Distribution Panel, 230V,3Ph, 60hz System in NEMA-1 · enclosure
Unit of Measurement	: Assy
Output per hour	: 1

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)	
A.	Labor				· ···· (· ··F)	
	Electrical Engineer	1				
	Safety Officer	1				
	Electrical Foreman	1				
	Skilled Laborer	2				
	Sub-Total for A				0	
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)	
В.	Equipment				•	
	Hauling Truck	1				
	Lifting Equipment	1				
	Sub-Total for B				0	
C.	Total (A+B)					0
D.	Output per Hour =	1.00				
E.	Direct Unit Cost (C+D)					0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)	
F.	Materials					
	Supply, delivery, and installation of					
	additional Sub-Distribution Panel,					
	230V,3Ph, 60hz System in NEMA-1					
	enclosure Main :					
	1 - 500AT/600AF, 3P, 500V, 60hz,	Assy	1.00			
	MCCB					
	Branches :					
	4 - 100AT/150AF, 3P, 500V, 60hz,					
	MCCB					
	Sub-Total for F					0
G.	Direct Unit Cost (E + F)					0.00
H.	Overhead, Contingencies & Miscellaneous (OCM)	Expenses	8%	of G		0.00
l.	Contractor's Profit (CP)	•		of G		0.00
 J.	Value Added Tax (VAT)			of (G+H+I)		0.00
с. К.	Tota Unit Cost		0,0	(G+H+I+J)		0.00
• • •				(0.11.1.0)		0.00

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Project

Item No./ Description

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

: Wire and Cabling Works for Equipments (Transformer, New MDP, Sub-DP and Existing MDP)

Unit of Measurement Output per hour

1	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.	Labor			,	
	Professional Electrical Engineer	1			
	Electrical Engineer	1			
	Safety Officer	1			
	Electrical Foreman	1			
	Skilled Laborer	5			
	Sub-Total for A	Ŭ			0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
B.	Equipment				/ (p)
1					
_	Sub-Total for B				0
C.	Total (A+B)				0
D.	Output per Hour =	1.00			
Е.	Direct Unit Cost (C+D)				0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials				
	HV Cables, Cu.XLPE/PVC	lot	1.00		
	Termintation Kit	lot	1.00		
	LV Cables	lot	1.00		
	Wiring Accessories and Supports	lot	1.00		
	Wiring Accessories and Supports		1.00 1.00		
		lot			
	Wiring Accessories and Supports Conduits, Accessories and Supports	lot			
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers	lot lot	1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and	lot lot lot	1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports	lot lot	1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and	lot lot lot	1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports	lot lot lot	1.00 1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials	lot lot lot lot lot	1.00 1.00 1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials	lot lot lot lot lot	1.00 1.00 1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials	lot lot lot lot lot	1.00 1.00 1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials	lot lot lot lot lot	1.00 1.00 1.00 1.00		
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables	lot lot lot lot lot	1.00 1.00 1.00 1.00		ſ
G	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables Sub-Total for F	lot lot lot lot lot	1.00 1.00 1.00 1.00		0 00
	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables Sub-Total for F Direct Unit Cost (E + F)	lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00	- of G	0.00
G. H.	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables Sub-Total for F Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM)	lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00	6 of G	0.00
H. I.	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables Sub-Total for F Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM) Contractor's Profit (CP)	lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00	6 of G	0.00 0.00 0.00
H.	Wiring Accessories and Supports Conduits, Accessories and Supports Cable Ladder with and without Covers (Hot-Dipped Galvanized and Powdercoated) Cable Ladder accessories and Hanger Supports Earthing Materials Miscellaneous and Consumables Sub-Total for F Direct Unit Cost (E + F) Overhead, Contingencies & Miscellaneous (OCM)	lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00		0.00

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Supply and installation of Grounding System at Transformer Area

1

Item No./ Description Unit of Measurement Output per hour

: lot

Project

Designation No. of Person/s No. of Hours Hourly Rate Amount (Php) Α. Labor Electrical Engineer 1 Safety Officer 1 Electrical Foreman 1 Skilled Laborer 3 Sub-Total for A 0 Name of Capacity No. of Unit/s No. of Hour/s Hourly Rate Amount (Php) В. Equipment Sub-Total for B 0 Total (A+B) C. 0 D. Output per Hour = 1.00 Direct Unit Cost (C+D) E. 0 Name of Specification Unit Unit Cost Quantity Amount (Php) F. Materials Earth Terminal Panel Assy 1.00 Wires and Cables lot 1.00 Wiring Accessories and Supports lot 1.00 Grounding Rod lot 1.00 Conduits, Fittings, Supports and 1.00 lot Accessories Miscellaneous and Supporting 1.00 lot Materials Sub-Total for F 0 Direct Unit Cost (E + F) 0.00 G. H. Overhead, Contingencies & Miscellaneous (OCM) Expenses 8% of G 0.00 Contractor's Profit (CP) 8% of G 0.00 Value Added Tax (VAT) J. 5% of (G+H+I) 0.00 Tota Unit Cost Κ (G+H+I+J) 0.00

Project	: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building				
Item No./ Description	: Testing and Commission	ing			
Unit of Measurement	: lot				
Output per hour	:	1			

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				
	Professional Electrical Engineer	1			
	Electrical Engineer	1			
	Safety Officer	1			
	Electrical Foreman	1			
	Sub-Total for A				0
_	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment				
	Various Electrical Test Tools	1			
	Sub-Total for B				0
C.	Total (A+B)				0
D.	Output per Hour =	1.00			
Е.	Direct Unit Cost (C+D)			1	0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials				
	Submission of Various Test Results	lot	1.00		
	Switching Assemby Calibration	lot	1.00		
	HV and LV Tests	lot	1.00		
	Applicable on site tests	lot	1.00		
1	Sub-Total for F				0
G.	Direct Unit Cost (E + F)				0.00
H.	Overhead, Contingencies & Miscellaneous (OCM)	Expenses	8%	of G	0.00
l.	Contractor's Profit (CP)			of G	0.00
 J.	Value Added Tax (VAT)			of (G+H+I)	0.00
с. К.	Tota Unit Cost		0,0	(G+H+I+J)	0.00
· · ·				(0.11.110)	0.00

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Project Item No./ Description Unit of Measurement Output per hour

: Provision for Temporary Power (As Needed)

1

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A.	Labor				
	Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
B.	Equipment				
	Delivery Truck	1			
	,				
					•
	Sub-Total for B				0
C.	Total (A+B)				0
D. E.	Output per Hour =	1.00			
E.	Direct Unit Cost (C+D)		0 "		0
F.	Name of Specification Materials	Unit	Quantity	Unit Cost	Amount (Php)
F.		1-4	4.00		
	Fuel Supply	lot	1.00		
	Sub-Total for F				0
G.	Direct Unit Cost (E + F)				0.00
H.	Overhead, Contingencies & Miscellaneous (OCM)	Expenses	8%	6 of G	0.00
I.	Contractor's Profit (CP)			6 of G	0.00
J.	Value Added Tax (VAT)			6 of (G+H+I)	0.00
				· /	0.00

1

Project

Item No./ Description

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Related Civil works for the concrete pedestal, duct bank, concrete pads for transformer and Distribution Panels and grounding system

Unit of Measurement

Output per hour

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)	
A.	Labor					
	Electrical Engineer	1				
	Safety Officer	1				
	Electrical Foreman	1				
	Skilled Laborer	5				
	Sub-Total for A				0	
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)	
B.	Equipment			•		
	Hauling Truck	1				
	Concrete Mixer	1				
	Demolition Tools	1				
	Excavation Tools	1				
I	Compact Equipment	1				
	Sub-Total for B				0	
C.	Total (A+B)					0
D.	Output per Hour =	1.00				
E.	Direct Unit Cost (C+D)					0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)	
F.	Materials					
	Cable Trench with Cover	lot	1.00			
	Form Works	lot	1.00			
	Scaffolding	lot	1.00			
	Supporting Materials (Seismic		4.00			
	Anchorage and J-Bolts)	lot	1.00			
	Cement	lot	1.00			
	Sand	lot	1.00			
	Gravel	lot	1.00			
	Rebar	lot	1.00			
	Miscellaneous and Consumables	lot	1.00			
1		IOL	1.00			
	Sub-Total for F					0
G.	Direct Unit Cost (E + F)				0	0 00.
<u>.</u> Н.	Overhead, Contingencies & Miscellaneous (OCM) Expenses	Q0/_	o of G		.00
 I	Contractor's Profit (CP)	/ =		o of G		.00
ı. J.	Value Added Tax (VAT)			o of (G+H+I)		.00
J. K.	Tota Unit Cost		5%	(G+H+I)		.00
n.				(G*FITIJ)	0.	.00

: Supply and Installation of 1.5 MVA Distribution Transformer for the OCA Aseana Building

Project	
Item No./ Description	
Unit of Measurement	
O start a such some	

: Construction and/or improvements of Transformer Room

Output per hour	1			
Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
A. Labor				
Electrical Engineer	1			
Safety Officer	1			
Electrical Foreman	1			
Skilled Laborer	5			
	0			
Sub-Total for A				0
Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
B. Equipment			,	
Welding Machine	1			
Concrete Mixer	1			
Demilition Tools	1			
Hauling Truck	1			
	I			
Sub-Total for B				0
				0
C. Total (A+B)	1.00			
C. Total (A+B)	1.00			
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification	1.00 Unit	Quantity	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D)		Quantity	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification		Quantity 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials	Unit		Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories	Unit	1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials	Unit lot lot lot	1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB	Unit lot lot lot lot	1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement	Unit lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand	Unit lot lot lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Gravel	Unit lot lot lot lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar	Unit lot lot lot lot lot lot lot lot lot	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	(
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	C
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	(
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	(
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages Ceiling Boards and Furrings Sub-Total for F	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Unit Cost	(Amount (Php)
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages Ceiling Boards and Furrings Sub-Total for F G. Direct Unit Cost (E + F)	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		(Amount (Php)
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages Ceiling Boards and Furrings Sub-Total for F G. Direct Unit Cost (E + F) H. Overhead, Contingencies & Miscellaneous (OCM)	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	of G	(Amount (Php)
C. Total (A+B) Output per Hour = Direct Unit Cost (C+D) Name of Specification Name of Specification Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages Ceiling Boards and Furrings Sub-Total for F G. Direct Unit Cost (E + F) H. Overhead, Contingencies & Miscellaneous (OCM) Contractor's Profit (CP)	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 8%	of G of G	(Amount (Php) (0.00 0.00 0.00 0.00 0.00
C. Total (A+B) D. Output per Hour = E. Direct Unit Cost (C+D) Name of Specification F. Materials Metal Louvers Roofing sheets and accessories Sealants and waterproofing materials CHB Cement Sand Gravel Rebar Fire Resistant Painting Materials Miscellaneous Materials Safety Sifnages Ceiling Boards and Furrings Sub-Total for F G. Direct Unit Cost (E + F) H. Overhead, Contingencies & Miscellaneous (OCM)	Unit lot lot lot lot lot lot lot lot lot lo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 8%	of G	(

Project Item No./ Description	: Supply and Installation of : Overall Restoration Works	1.5 MVA Distribution Transformer for the OCA Aseana Building
Unit of Measurement	: lot	
Output per hour	:	1

	Designation	No. of Person/s	No. of Hours	Hourly Rate	Amount (Php)
Α.	Labor				
	Electrical Engineer	1			
	Safety Officer	1			
	Electrical Foreman	1			
	Skilled Laborer	2			
	Sub-Total for A				0
	Name of Capacity	No. of Unit/s	No. of Hour/s	Hourly Rate	Amount (Php)
В.	Equipment	L		•	
	Sub-Total for B				0
C.	Total (A+B)				0
D.	Output per Hour =	1.00			
E.	Direct Unit Cost (C+D)	T			0
	Name of Specification	Unit	Quantity	Unit Cost	Amount (Php)
F.	Materials				
	Materials needed for restoration	lot	1.00		
	Sub-Total for F				0
G.	Direct Unit Cost (E + F)				0.00
H.	Overhead, Contingencies & Miscellaneous (OCM	1) Expenses		of G	0.00
I.	Contractor's Profit (CP)			of G	0.00
J.	Value Added Tax (VAT)		5%	of (G+H+I)	0.00
Κ.	Tota Unit Cost			(G+H+I+J)	0.00