

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED UPGRADING OF ELECTRICAL SYSTEM AT CARLOS P. ROMULO SENIOR HIGH SCHOOL

LOCATION : BARANGAY BAGONG PAG-ASA, DISTRICT 1, QUEZON CITY

PROJECT NO. : 20 - 00130

DURATION : Thirty (30) Calendar Days

SCOPE OF WORKS:

1. General Requirements include temporary facilities and utilities, billboard, scaffolding, and construction health and safety, and clearing, hauling and disposal of construction materials and debris.
2. Construction of Distribution Post.
 - A. Site Works include site clearing and preparation, layout and staking and earthworks.
 - B. Civil/Structural works include concrete works.
3. Upgrading of main electrical service entrance post and distribution feeder.
 - A. Site Works include site clearing and preparation, layout and staking and earthworks.
 - B. Civil/Structural works include concrete works.
 - C. Installation of electrical roughing-ins, wirings, and electrical panel board and accessories
4. All necessary testing of materials and commissioning works must be performed as per standard procedure.

ITEM	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	pc	P	P
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Health and Safety	1	unit		
	Temporary Electrical and Water Facilities	30	days		
	Temporary Enclosure Around the Construction Area (H=2.4m)	40	l.m.		
				Direct Cost I	P
II	CONSTRUCTION OF DISTRIBUTION POST				
A	Site Works				
	Layout and Staking	1	sq.m	P	P
	Site Clearing And Preparation	1	sq.m		
	Excavation				
	Column Footing	4	cu.m.		
				Subtotal	P
	Soil Treatment	9	sq.m.	P	P
	Gravel Bedding	1	cu.m.		
				Material Cost	P
				Labor Cost	
				Subtotal	P
	Backfill and Compaction	3	cu.m.	P	P
				Subtotal	P
				Materials Cost II-A	P
				Labor Cost II-A	
				Direct Cost II-A	P

B	Civil Works / Structural Works				
	Concrete Works				
	On-Site Mix				
	Column Footing	1	cu.m.	P	P
	Column	2	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Column	89	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column Footing	58	kg		
	16mmØ Column	100	kg		
	Formworks (Column)	11	sq.m.		
	Scaffolding & Shoring (Column)	7	l.m.		
				Materials Cost II-B	P
				Labor Cost II-B	
				Direct Cost II-B	P
				Materials Cost II	P
				Labor Cost II	
				Direct Cost II	P
III	UPGRADING OF MAIN ELECTRICAL SERVICE ENTRANCE POST				
A	Site Works				
	Demolition Works				
	Dismantling of existing Main Circuit Breaker	1	assy	P	P
	Layout and Staking	1	sq.m		
	Site Clearing And Preparation	1	sq.m		
	Excavation				
	Earth Pit for Electrical Grounding System	1	cu.m.		
				Direct Cost III-A	P
B	Civil Works / Structural Works				
	Concrete Works				
	On-Site Mix				
	Earth Pit for Electrical Grounding System	1	cu.m.	P	P
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Earthpit for Electrical Grounding system	8	kg		
	Formworks (Column)				
	Earth Pit for Electrical Grounding System	2	sq.m.		
				Materials Cost III-B	P
				Labor Cost III-B	
				Direct Cost III-B	P

C	ELECTRICAL WORKS				
	Roughing-ins				
	32mmØ PVC Pipe	2	pcs	P	P
	80mmØ IMC Pipe	8	pcs		
	Fittings and Accessories				
	80mmØ IMC Locknut & Bushing	4	pairs		
	80mmØ IMC Coupling	4	pcs		
	80mmØ Weatherproof Entrance Cap	4	pcs		
	20mm Ø x 3000mm Grounding Rod w/ Ground Clamp	3	sets		
	250mm² Ø Solderless Connector w/ Two-Bolt	3	pairs		
	Secondary Rack w/ 3-Spool, Heavy Duty	2	assy		
	Wires and Cables				
	50mm² TW Wire	4	l.m.		
	125mm² THHN Wire	72	l.m.		
	250mm² THW Wire	165	l.m.		
	Panelboard				
	MDP				
	Main: 500AT, 630AF, 3P, 70KAIC, 240V, MCCB	1	assy		
	Enclosure: NEMA 3R with Ground Terminals				
	Pipe Hangers & Supports				
	Vertical Layout of Pipe	24	l.m.		
	Miscellaneous & Consumables				
	All Around Sealant	1	liter		
	Electrical Tape	5	pcs		
	Masking Tape	2	pcs		
	Rubber Tape	2	pcs		
	Rugs	5	kg		
				Materials Cost III-C	P
				Labor Cost III-C	
				Direct Cost III-C	P
				Materials Cost III	P
				Labor Cost III	
				Direct Cost III	P

SUMMARY

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	P
II	CONSTRUCTION OF DISTRIBUTION POST	
III	UPGRADING OF MAIN ELECTRICAL SERVICE ENTRANCE POST	
	TOTAL DIRECT COST	P
	Overhead, Contingencies and Miscellaneous Expenses (OCM)	
	Profit	
	VAT	
	TOTAL ESTIMATED COST	P

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BREAKDOWN OF COST

ITEM NO	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF DISTRIBUTION POST				
III	UPGRADING OF MAIN ELECTRICAL SERVICE ENTRANCE POST				

TOTAL COST ₱ _____

LUMP SUM BID IN WORDS : _____

Contractor : _____