

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL

LOCATION : BARANGAY MASAMBONG, DISTRICT 1, QUEZON CITY

PROJECT NO. : 20 - 00135

DURATION : Ninety (90) Calendar Days

SCOPE OF WORKS:

1. General Requirements include temporary facilities and utilities, billboard, construction health and safety, scaffolding, and clearing, hauling and disposal of construction materials and debris.
2. Chipping of masonry surfaces for installation of roughing-ins.
3. Restoration works for affected areas
4. Repainting of affected areas.
5. Installation of electrical roughing-ins, wirings, devices, and fixtures.
6. Installation of panelboard and accessories.
7. All necessary testing of materials and commissioning works must be performed as per standard procedure.

ITEM NO	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		
	Scaffolding (Rental)	12	sq.m.		
	Temporary Electrical and Water Facilities	90	days		
				Direct Cost I	P
II.	REWIRING OF OSMEÑA BUILDING				
A.	SITE WORKS				
	Chipping Works				
	Panelboards at Sergio Osmeña Building	1	sq.m.	P	P
	Power Layout at Sergio Osmeña Building	5	sq.m.		
				Subtotal A	P
B.	CIVIL WORKS / STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix Concrete				
	25mm Concrete Topping (Panelboards, Power Layout)	6	sq.m.	P	P
				Material Cost B	P
				Labor Cost B	
				Subtotal B	P
C.	ARCHITECTURAL WORKS				
	Latex Paint Finish	6	sq.m.	P	P
				Material Cost C	P
				Labor Cost C	
				Subtotal C	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
D.	ELECTRICAL WORKS				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	102	pcs	P	P
	20mmØ Flexible Tube	3	rolls		
	20mmØ PVC Pipe	72	pcs		
	32mmØ PVC Pipe	37	pcs		
	Fittings and Accessories				
	20mmØ PVC Adaptor	64	pcs		
	20mmØ PVC Elbow	16	pcs		
	20mmØ PVC Locknut & Bushing	64	pairs		
	32mmØ PVC Adaptor	16	pcs		
	32mmØ PVC Elbow	8	pcs		
	32mmØ PVC Locknut & Bushing	16	pairs		
	Wires and Cables				
	3.5mm² THHN Wire	9	rolls		
	22mm² THHN Wire	110	l.m.		
	8.0mm² TW Wire	54	l.m.		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	87	pcs		
	Emergency Light, Twin Head	15	pcs		
	Wiring Devices and Other Fixtures				
	Box Type (case only), with Complete Accessories for 20W LED	87	sets		
	Orbit Fan, Heavy Duty, with Selector Switch	25	sets		
	Outlet with Grounding, One-Gang	6	pcs		
	Outlet with Grounding, Two-Gang	32	pcs		
	Switch w/ Plate & Cover, One Pole	8	pcs		
	Switch w/ Plate & Cover, Two Pole	16	pcs		
	Wall Fan, Heavy Duty	16	sets		
	Panelboard				
	LPP1 (Typical to LPP2, LPP3 & LPP4)				
	Main: 70 AT, 100AF, 2P, 230V, 10 KAIC, MCCB	4	assy		
	Branches: 5-20 AT, 100AF, 2P, 230V, MCCB				
	1- Spare				
	Enclosure: NEMA 1 with Ground Terminals				
	CB				
	70 AT, 100AF, 2P, 230V, 10 KAIC, MCCB	4	assy		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	195	l.m.		
	Vertical Layout of Pipe	14	l.m.		
	Miscellaneous & Consumables				
	#16 G.I. Tie Wire (for cable pulling)	1	kg		
	Electrical Tape	20	rolls		
	Masking Tape	2	rolls		
	Rubber Tape	4	rolls		
	Torch with Butane	2	sets		
				Materials Cost D	P
				Labor Cost D	
				Subtotal D	P
				Materials Cost II	P
				Labor Cost II	
				Direct Cost II	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
III.	REWIRING OF CALALAY BUILDING				
A.	SITE WORKS				
	Chipping Works				
	Panelboards Calalay Building	1	sq.m.	P	P
				Sub total A	P
B.	CIVIL WORKS / STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix Concrete				
	25mm Concrete Topping (Panelboard)	1	sq.m.	P	P
				Material Cost B	P
				Labor Cost B	
				Subtotal B	P
C.	ARCHITECTURAL WORKS				
	Latex Paint Finish	1	sq.m	P	P
				Material Cost C	P
				Labor Cost C	
				Subtotal C	P
D.	ELECTRICAL WORKS				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	142	pcs	P	P
	20mmØ Flexible Tube	2	rolls		
	32mmØ PVC Pipe	2	pcs		
	Fittings and Accessories				
	32mmØ PVC Adaptor	2	pairs		
	32mmØ PVC Elbow	2	pcs		
	32mmØ PVC Locknut & Bushing	2	pcs		
	Wires and Cables				
	3.5mm² THHN Wire	7	rolls		
	30mm² THHN Wire	20	l.m.		
	14mm² TW Wire	10	l.m.		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	76	pcs		
	Wiring Devices and Other Fixtures				
	Box Type case only, w/ Complete Accessories for 20W LED	16	sets		
	Troffer Fixture case only, w/ Complete Accessories for 2x20W LED	30	sets		
	Orbit Fan, Heavy Duty	21	sets		
	Outlet with Grounding, Two-Gang	26	pcs		
	Switch w/ Plate & Cover, One Pole	5	pcs		
	Switch w/ Plate & Cover, Two Pole	11	pcs		
	Wall Fan, Heavy Duty	22	sets		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Panelboard				
	MDP-Calalay				
	Main: 100 AT, 100AF, 2P, 230V, 10 KAIC, MCCB	1	assy		
	Branches: 12-20 AT, 100AF, 2P, 230V, 10 KAIC, MCCB				
	1- Spare				
	Enclosure: NEMA 1 with Ground Terminals				
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	174	l.m.		
	Vertical Layout of Pipe	6	l.m.		
	Miscellaneous & Consumables				
	#16 G.I. Tie Wire (for cable pulling)	1	kg		
	Electrical Tape	12	rolls		
	Masking Tape	2	rolls		
	Rubber Tape	3	rolls		
	Torch with Butane	1	set		
				Materials Cost D	P
				Labor Cost D	
				Subtotal D	P
				Materials Cost III	P
				Labor Cost III	
				Direct Cost III	P
IV.	REWIRING OF MATHAY BUILDING				
A.	SITE WORKS				
	Chipping Works				
	Panelboards Calalay Building	1	sq.m.	P	P
				Subtotal A	P
B.	CIVIL WORKS / STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix Concrete				
	25mm Concrete Topping (Panelboard)	1	sq.m.	P	P
				Material Cost B	P
				Labor Cost B	
				Subtotal B	P
C.	ARCHITECTURAL WORKS				
	Latex Paint Finish	8	sq.m	P	P
				Material Cost C	P
				Labor Cost C	
				Subtotal C	P
D.	ELECTRICAL WORKS				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	100	pcs	P	P
	20mmØ Flexible Tube	2	rolls		
	32mmØ PVC Pipe	4	pcs		
	Fittings and Accessories				
	32mmØ PVC Adaptor	2	pairs		
	32mmØ PVC Elbow	4	pcs		
	32mmØ PVC Locknut & Bushing	2	pcs		
	32mmØ PVC Elbow	2	pcs		
	Secondary Rack, Two Spool Insulators, Heavy Duty	1	assy		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	8.0mm ² TW Wire	20	l.m.		
	3.5mm ² THHN Wire	5	rolls		
	30mm ² THHN Wire	40	l.m.		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	48	pcs		
	Wiring Devices and Other Fixtures				
	Box Type only, w/ Complete Accessories for 20W LED	48	sets		
	Outlet with Grounding, Two-Gang	20	pcs		
	Switch w/ Plate & Cover, One Pole	4	pcs		
	Switch w/ Plate & Cover, Two Pole	10	pcs		
	Wall Fan, Heavy Duty	20	sets		
	Panelboard				
	DP-Mathay				
	Main: 100 AT, 100AF, 2P, 230V, 10 KAIC, MCCB	1	assy		
	Branches: 13-20 AT, 100AF, 2P, 230V, 10 KAIC, MCCB				
	1- Spare				
	Enclosure: NEMA 1 with Ground Terminals				
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	122	l.m.		
	Vertical Layout of Pipe	10	l.m.		
	Miscellaneous & Consumables				
	#16 G.I. Tie Wire (for cable pulling)	1	kg	P	P
	Electrical Tape	9	rolls		
	Masking Tape	2	rolls		
	Rubber Tape	4	rolls		
	Torch with Butane	1	set		
				Materials Cost D	P
				Labor Cost D	
				Subtotal D	P
				Materials Cost IV	P
				Labor Cost IV	
				Direct Cost IV	P
V.	REWIRING OF DEPED BUILDING				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	50	pcs	P	P
	20mmØ Flexible Tube	1	roll		
	Wires and Cables				
	3.5mm ² THHN Wire	2	rolls		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	25	pcs		
	Wiring Devices and Other Fixtures				
	Orbit Fan, Heavy Duty	6	sets		
	Outlet with Grounding, Two-Gang	10	pcs		
	Switch w/ Plate & Cover, One Pole	2	pcs		
	Switch w/ Plate & Cover, Two Pole	4	pcs		
	Wall Fan, Heavy Duty	12	sets		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	61	l.m.		
	Miscellaneous & Consumables				
	Electrical Tape	6	rolls		
	Masking Tape	1	roll		
				Materials Cost V	P
				Labor Cost V	
				Direct Cost V	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
VI.	REWIRING OF DPWH BUILDING				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	24	pcs	P	P
	Wires and Cables				
	3.5mm ² THHN Wire	1	roll		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	10	pcs		
	Wiring Devices and Other Fixtures				
	Box Type only, w/ Complete Accessories for 20W LED	4	sets		
	Orbit Fan, Heavy Duty	2	sets		
	Outlet with Grounding, Two-Gang	6	pcs		
	Switch w/ Plate & Cover, One Pole	2	pcs		
	Switch w/ Plate & Cover, Two Pole	3	pcs		
	Wall Fan, Heavy Duty	4	sets		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	29	l.m.		
	Miscellaneous & Consumables				
	Electrical Tape	4	pcs		
	Masking Tape	1	pc		
				Materials Cost VI	P
				Labor Cost VI	
				Direct Cost VI	P
VII.	REWIRING OF VOCATIONAL BUILDING				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	20	pcs	P	P
	Wires and Cables				
	3.5mm ² THHN Wire	1	roll		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	18	pcs		
	Wiring Devices and Other Fixtures				
	Box Type only, w/ Complete Accessories for 20W LED	18	sets		
	Outlet with Grounding, Two-Gang	6	pcs		
	Switch w/ Plate & Cover, Two Pole	4	pcs		
	Wall Fan, Heavy Duty	6	sets		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	24	l.m.		
	Miscellaneous & Consumables				
	Electrical Tape	3	pcs		
	Masking Tape	1	pc		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Materials Cost VII	P
				Labor Cost VII	
				Direct Cost VII	P
VIII.	REWIRING OF T.H.E. BUILDING				
	Roughing-ins				
	16mm x 16mm x 2.44m Rectangular PVC Moulding	12	pcs	P	P
	Wires and Cables				
	3.5mm ² THHN Wire	1	roll		
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	6	pcs		
	Wiring Devices and Other Fixtures				
	Outlet with Grounding, Two-Gang	4	pcs		
	Switch w/ Plate & Cover, Two Pole	2	pcs		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	12	l.m.		
	Miscellaneous & Consumables				
	Electrical Tape	2	pcs		
				Materials Cost VIII	P
				Labor Cost VIII	
				Direct Cost VIII	P
IX.	REWIRING OF CRISOLOGO BUILDING				
	Wires and Cables				
	3.5mm ² THHN Wire	1	roll	P	P
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	6	pcs		
	Wiring Devices and Other Fixtures				
	Outlet with Grounding, Two-Gang	2	pcs		
	Switch w/ Plate & Cover, Two Pole	1	pc		
	Miscellaneous & Consumables				
	Electrical Tape	2	pcs		
				Materials Cost IX	P
				Labor Cost IX	
				Direct Cost IX	P
X.	REWIRING OF CANTEEN				
	Wires and Cables				
	3.5mm ² THHN Wire	1	roll	P	P
	Lighting fixtures (Energy Efficient)				
	T8, 20W Tube Light	6	pcs		
	Wiring Devices and Other Fixtures				
	Outlet with Grounding, Two-Gang	4	pcs		
	Switch w/ Plate & Cover, Two Pole	2	pcs		
	Miscellaneous & Consumables				
	Electrical Tape	2	pcs		
				Materials Cost X	P
				Labor Cost X	
				Direct Cost X	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
XI.	REHABILITATION OF AERIAL FEEDER WIRE				
A.	SITE WORKS				
	Demolition Works				
	Dismantling of existing 150mm ² THWN Wire	30	l.m.	P	P
				Subtotal A	P
B.	ELECTRICAL WORKS				
	Wires and Cables				
	150mm ² THWN Wire	30	l.m.	P	P
	Miscellaneous & Consumables				
	Electrical Tape	2	pcs		
	Rubber Tape	1	pc		
	Secondary Rack w/ 3 spool, Heavy Duty	1	pc		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	30	l.m.		
	Painting Works at Service Entrance Pipe				
	Epoxy Enamel Paint Finish (Steel Surfaces)	2	sq.m		
				Materials Cost B	P
				Labor Cost B	
				Subtotal B	P
				Materials Cost XI	P
				Labor Cost XI	
				Direct Cost XI	P

SUMMARY

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
I.	GENERAL REQUIREMENTS	P
II.	REWIRING OF OSMEÑA BUILDING	
III.	REWIRING OF CALALAY BUILDING	
IV.	REWIRING OF MATHAY BUILDING	
V.	REWIRING OF DEPED BUILDING	
VI.	REWIRING OF DPWH BUILDING	
VII.	REWIRING OF VOCATIONAL BUILDING	
VIII.	REWIRING OF T.H.E. BUILDING	
IX.	REWIRING OF CRISOLOGO BUILDING	
X.	REWIRING OF CANTEEN	
XI.	REHABILITATION OF AERIAL FEEDER WIRE	
	TOTAL DIRECT COST	P
	Overhead, Contingencies and Miscellaneous Expenses (OCM)	
	Profit	
	VAT	
	TOTAL ESTIMATED COST	P

PROJECT TITLE : PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT
SERGIO OSMEÑA SENIOR HIGH SCHOOL

LOCATION : BARANGAY MASAMBONG, DISTRICT 1, QUEZON CITY

PROJECT NO. : 20 - 00135

DURATION : Ninety (90) Calendar Days

BREAKDOWN OF COST

ITEM NO	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I.	GENERAL REQUIREMENTS				
II.	REWIRING OF OSMEÑA BUILDING				
III.	REWIRING OF CALALAY BUILDING				
IV.	REWIRING OF MATHAY BUILDING				
V.	REWIRING OF DEPED BUILDING				
VI.	REWIRING OF DPWH BUILDING				
VII.	REWIRING OF VOCATIONAL BUILDING				
VIII.	REWIRING OF T.H.E. BUILDING				
IX.	REWIRING OF CRISOLOGO BUILDING				
X.	REWIRING OF CANTEEN				
XI.	REHABILITATION OF AERIAL FEEDER WIRE				

TOTAL COST ₱ _____

LUMP SUM BID IN WORDS : _____

Contractor : _____