

Project: REPAIR AND IMPROVEMENT OF THE ROOFING OF GERONIMA T. PECSON HALL (MAIN BUILDING)

Subject: BILL OF QUANTITIES

Date: 20/02/2025

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
I	GENERAL REQUIREMENTS				
1.00	Mobilization and demobilization	1.00	lot	200,000.00	200,000.00
2.00	Construction health and safety provision	1.00	lot	350,000.00	350,000.00
3.00	Temporary facilities	1.00	lot	250,000.00	250,000.00
4.00	Scaffolding works	1.00	lot	550,000.00	550,000.00
4.00	Tarpaulin billboard	1.00	lot	5,000.00	5,000.00
	Subtotal (General Requirements)				1,355,000.00
II	STRUCTURAL WORKS				
1.00	Site Preparation Works				
1.01	Orderly removal, hauling, and stockpiling of clay roof tiles	1.00	lot	716,320.00	716,320.00
1.02	Removal of battens and other dilapidated clay roofing tile accessories	1.00	lot	145,180.00	145,180.00
1.03	Removal of ceiling, including all unnecessary attachments	1.00	lot	315,240.00	315,240.00
1.04	Demolition of mezzanine at Rooms 304 and 304A	1.00	lot	34,650.00	34,650.00
1.05	Removal of paint and loose plasters of gable walls facing the roof	1.00	lot	8,230.00	8,230.00
1.06	Declogging of existing roof and deck drains	1.00	lot	12,200.00	12,200.00
1.07	Disposal of debris and site cleanup	1.00	lot	386,160.00	386,160.00
2.00	Steel Works (submit technical data sheet)				
2.01	Metal battens, 23 x 0.6mm, 5.0m L	270.00		285.00	76,950.00
2.02	Hat-type purlins, 45 x 0.8mm, 6.0m L	1,870.00		590.00	1,103,300.00
2.03	Ceiling support: LC 100 x 50 x 15 x 1.5, 6.0m L (sp. @1.20m O.C.)	280.00	pcs	565.00	158,200.00
2.04	Epoxy primer and rust remover for new and existing metal framing @ ±3000 sq.m. (verify)	1.00	lot	300,000.00	300,000.00
2.05	Labor and equipment	1.00	lot	518,080.00	518,080.00
3.00	Roof Deck				
3.01	Concrete topping, 50mm thk using G-3/8 crushed gravel, job-mix (1:2:4 by volume)	4.00	cu.m.	6,450.00	25,800.00
3.02	Welded wire mesh reinforcement, 150 x 150 x 6.0mm	75.30	sq.m.	185.00	13,930.50
3.03	Low viscosity concrete epoxy for bonding concrete topping to existing concrete slab/waterproofing	6.00	gal	4,920.00	29,520.00
3.04	Labor and equipment	1.00	lot	24,230.00	24,230.00
	Subtotal (Structural Works)				3,867,990.50
III	ARCHITECTURAL WORKS				
1.00	Various Repair Works				
1.01	Repair and/or replacement of damaged portions of wooden deck/undersheeting @ approx 5% of total area	1.00	lot	122,560.00	122,560.00
1.02	Replacement of dilapidated manhole frame using S/S 304 L 50 x 50 x 4.5mm, 6.0m L	1.00	lot	7,590.00	7,590.00
1.03	Replacement of manhole cover using 6.0mm thk solid polycarbonate sheet in S/S 304 L 50 x 50 x 4.5mm frame, approx. 1.00m x 1.00m	1.00	lot	18,820.00	18,820.00
1.04	Gable wall repair/replastering works @ ±60 sq.m.	1.00	lot	12,600.00	12,600.00
1.05	Repair and/or replacement of broken/dilapidated parts of existing wooden fascia boards and truss/rafter tails	1.00	lot	94,150.00	94,150.00
2.00	Waterproofing Works				
2.01	Polyurethane-based liquid-applied waterproofing membrane (min. 2 coats) on roof deck and gable walls	134.70	sq.m.	1,160.00	156,252.00
2.02	Elastomeric paint on gable walls @ ±60 sq.m.	1.00	lot	12,600.00	12,600.00
2.03	Labor and equipment	1.00	lot	50,655.00	50,655.00

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (Php)	Amount (Php)
3.00	Roofing Works (submit technical data sheet)				
3.01	Stone-coated metal tile roof, 0.5mm thk, (verify color)	3,226.30	sq.m.	1,475.00	4,758,792.50
3.02	Stone-coated ridge cap, 8' x 18" x 0.5mm	120.00	pcs	1,260.00	151,200.00
3.03	Stone-coated wall flashing, 8' x 18" x 0.5mm	35.00	pcs	1,260.00	44,100.00
3.04	Stone-coated valley gutter, 8' x 18" x 0.5mm	51.00	pcs	1,260.00	64,260.00
3.05	Customized stone-coated Spanish gutter, cut from 8' x 36" x 0.6mm	181.00	pcs	2,670.00	483,270.00
3.06	Stainless steel inside gutter, 8' x 24" x 0.6mm	12.00	pcs	1,970.00	23,640.00
3.07	Waterproof underlayment: 30RF standard roofing felt	3,226.30	sq.m.	230.00	742,049.00
3.08	Miscellaneous and consumables	1.00	lot	191,960.00	191,960.00
3.09	Labor and equipment	1.00	lot	1,937,780.00	1,937,780.00
4.00	Ceiling Works				
	<i>Hallway Ceiling: Flat Ceiling</i>				
4.01	4.5mm thk fiber cement board	497.00	sq.m.	210.00	104,370.00
4.02	Light gauge metal framing spaced at 0.40m O.C.	497.00	sq.m.	175.00	86,975.00
4.03	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot	40,190.00	40,190.00
4.04	Labor and equipment	1.00	lot	69,460.00	69,460.00
	<i>Room Ceiling: T-Runner Ceiling System</i>				
4.05	4.5mm thk fiber cement board cut to 600 x 600mm tiles	1,038.30	sq.m.	210.00	218,043.00
4.06	Tee-runner ceiling suspension ceiling grid system, HD hot-dipped galvanized steel	1,038.30	sq.m.	250.00	259,575.00
4.07	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot	88,360.00	88,360.00
4.08	Labor and equipment	1.00	lot	170,790.00	170,790.00
	<i>Main Auditorium Ceiling: Recessed Ceiling (Same design as existing)</i>				
4.05	4.5mm thk fiber cement board	318.60	sq.m.	270.00	86,022.00
4.06	Light gauge metal framing spaced at 0.40m O.C.	318.60	sq.m.	210.00	66,906.00
4.07	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot	30,585.00	30,585.00
4.08	Wood cornices and mouldings (same design as existing)	135.10	l.m.	680.00	91,868.00
4.09	Labor and equipment	1.00	lot	90,875.00	90,875.00
4.00	Painting/Repainting Works				
4.01	Repainting of existing wooden fascia boards and soffit (at eaves), including truss/rafter tails @ ±2000 sq.m.	1.00	lot	250,000.00	250,000.00
4.02	Painting of auditorium ceiling, semi-gloss/flat latex	340.10	sq.m.	200.00	68,020.00
4.03	Painting of auditorium wood mouldings and cornices, quick-dry enamel	1.00	lot	10,130.00	10,130.00
4.04	Labor and equipment	1.00	lot	130,890.00	130,890.00
	Subtotal (Architectural Works)				10,735,337.50
IV	PLUMBING WORKS				
1.00	Repair and Adjustment of Downspouts				
1.01	PVC pipe, Ø150mm x 3.0m L (submit technical data sheet)	8.00	pcs	2,300.00	18,400.00
1.02	PVC pipe, Ø100mm x 3.0m L (submit technical data sheet)	8.00	pcs	765.00	6,120.00
1.03	PVC fittings and accessories	1.00	lot	6,130.00	6,130.00
1.04	Customized downspout clamps made from 50 x 6.0mm flat bars @ ±1,200 sets (submit technical data sheet)	1.00	lot	139,100.00	139,100.00
1.05	Labor and equipment	1.00	lot	74,985.00	74,985.00
2.00	Roof Drains and Accessories				
2.01	Aluminum mesh gutter guard @ 6" x 20' per roll	65.00	rls	370.00	24,050.00
2.02	T304 s/s gutter/downspout strainer	66.00	pcs	650.00	42,900.00
2.03	Parapet roof drain with angled strainer, heavy duty stainless-steel or cast aluminum finish	2.00	sets	1,950.00	3,900.00
2.04	Labor and equipment	1.00	lot	21,255.00	21,255.00
	Subtotal (Plumbing Works)				336,840.00
V	ELECTRICAL WORKS (submit technical data sheet)				

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost (PhP)	Amount (PhP)
1.0	Roughing-ins				
1.01	40 mm Φ PVC pipe	20.00	pcs	345.00	6,900.00
1.02	25 mm Φ PVC pipe	350.00	pcs	220.22	77,077.00
1.03	20 mm Φ PVC pipe	824.00	pcs	175.97	144,999.28
1.04	15 mm Φ flexible metal	300.00	lm	97.89	29,367.00
1.05	4" x 4" metal junction box ga. 16 w/ cover	250.00	pcs	86.06	21,515.00
1.06	2" x 4" metal utility box ga. 16	100.00	pcs	67.73	6,773.00
1.07	20 mm Φ PVC male adaptor w/ locknut	498.00	pcs	23.27	11,588.46
1.08	25 mm Φ PVC male adaptor w/ locknut	285.00	pcs	38.22	10,892.70
1.09	15 mm Φ connector w/ locknut and bushing	300.00	pcs	26.26	7,878.00
1.10	3/8" full thread rod	200.00	pcs	373.75	74,750.00
1.11	3/8" nut and washer	1,500.00	pcs	11.31	16,965.00
1.12	2"x2" angle bar	100.00	pcs	1,121.25	112,125.00
1.13	welding rod	35.00	kgs	74.75	2,616.25
1.14	G.I. pull wire	50.00	kgs	201.89	10,094.50
1.15	Heat Gun	3.00	pcs	3,250.00	9,750.00
1.16	25 mm Φ U-Bolt	400.00	pcs	23.27	9,308.00
1.17	20 mm Φ U-Bolt	950.00	pcs	18.72	17,784.00
1.18	hacksaw blade	10.00	pcs	74.75	747.50
1.19	Labor and equipment	1.00	lot	171,339.21	171,339.21
2.0	Wires and Accessories (submit technical data sheet)				
2.01	250sqmm THHN Stranded Wire RYB	99.00	lm	4,750.00	470,250.00
2.02	125sqmm THHN Stranded Wire RYB	30.00	lm	1,940.00	58,200.00
2.02	60sqmm THHN Stranded Wire Green	33.00	lm	816.00	26,928.00
2.03	50sqmm THHN Stranded Wire RYB	35.00	lm	596.00	20,860.00
2.04	14sqmm THHN Stranded Wire Green	52.00	lm	198.00	10,296.00
2.05	5.5sqmm THHN Stranded Wire 150 M	16.00	roll	11,475.00	183,600.00
2.06	3.5sqmm THHN Stranded Wire 150M	50.00	roll	5,550.00	277,500.00
2.07	Electrical Tape	50.00	pcs	65.00	3,250.00
2.08	Labor and equipment	1.00	lot	315,265.20	315,265.20
3.0	Wiring Devices (submit technical data sheet)				
3.1	One-Gang Single Switch Wide Series	7.00	set	226.59	1,586.13
3.2	Two-Gang Single Switch Wide Series	11.00	set	362.44	3,986.84
3.3	Three-Gang Single Switch Wide Series	11.00	set	496.99	5,466.89
3.4	Three-Gang Three Way Switch Wide Series	4.00	set	676.52	2,706.08
3.5	One-Gang Convenience Outlet Wide Series	51.00	set	276.64	14,108.64
	Labor and equipment	1.00	lot	8,356.37	8,356.37
4.0	Panels and Boxes (submit technical data sheet)				
4.1	MDP-PB (Industrial type MCCB)	1.00	assy	914,573.20	914,573.20
	Main: 1600AT,3P,65 KAIC Industrial type				
	Branches: 2-500AT, 3P,50 KAIC 630 AF				
	2-400AT, 3P,50 KAIC 400 AF				
	2-250AT, 3P,36 KAIC 250 AF				
	2-200AT, 3P,36 KAIC 250 AF				
4.2	PPGF (Industrial type MCCB)	1.00	assy	295,069.35	295,069.35
	Main: 500AT,3P,50KAIC 630 AF				
	Branches: 2-200AT, 3P 36 KAIC 250 AF				
	4-160AT, 3P 36 KAIC 250 AF				
	4-100AT, 2P 30 KAIC 100AF				
4.3	LPGF (Miniature type CB)	1.00	assy	78,611.70	78,611.70
	Main: 100AT,3P,30KAIC 100AF MCCB				
	Branches: 2-50AT, 2P 6 KAIC MCB				
	12-20AT, 2P 6 KAIC MCB				
4.4	PP2F(Industrial type MCCB)	1.00	assy	110,771.30	110,771.30
	Main: 250AT,3P,36KAIC,250 AF MCCB				
	Branches: 2-160 AT, 3P 30 KAIC, 250 AF MCCB				
	4-100AT, 2P 30 KAIC, 100 AF MCCB				
	4-50AT, 2P 30 KAIC, 100 AF MCCB				
4.5	LP2F(Miniature type CB)	1.00	assy	68,268.60	68,268.60
	Main: 100AT,3P,30KAIC 100AF MCCB				
	Branches: 2-50AT, 2P 6 KAIC MCB				
	4-32AT, 2P 6 KAIC MCB				
	12-20AT, 2P 6 KAIC MCB				

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(Php)	(Php)
4.4	PP3F(Industrial type MCCB)	1.00	assy	110,771.30	110,771.30
	Main: 250AT,3P,36KAIC,250 AF MCCB				
	Branches: 2-160 AT, 3P 30 KAIC, 250 AF MCCB				
	4-100AT, 2P 30 KAIC, 100 AF MCCB				
	4-50AT, 2P 30 KAIC, 100 AF MCCB				
4.5	LP3F(Miniature type CB)	1.00	assy	68,268.60	68,268.60
	Main: 100AT,3P,30KAIC 100AF MCCB				
	Branches: 2-50AT, 2P 6 KAIC MCB				
	4-32AT, 2P 6 KAIC MCB				
	12-20AT, 2P 6 KAIC MCB				
4.7	12'X 12' X 6' Pull Box	2.00	set	3,850.00	7,700.00
	Led Driver Panel 16"X16"X8" Powder Coated Metal Box	1.00	set	4,275.00	4,275.00
	Labor and equipment	1.00	lot	497,492.72	497,492.72
5.0	Lighting Fixture and Ceiling Equipment (submit technical data sheet)				
5.01	15 Watts LED Slim Type Recessed Downlight (DL)	46.00	set	1,150.00	52,900.00
5.02	30 Watts LED Slim Type Recessed Spotlight (DL)	24.00	set	2,150.00	51,600.00
5.03	2-18 Tubular LED in 1200 x 600 Surface Mounted Troffer Type	57.00	set	2,245.00	127,965.00
5.04	2-18 Tubular LED in 1200 x 600 Recessed Troffer Type Fixture	69.00	set	2,245.00	154,905.00
5.05	1-18 Tubular LED in 1200 x 300 Surface Mounted Troffer Type	30.00	set	2,050.00	61,500.00
5.06	5050, 60 LED's Cove Lights /Strip Lights 12 volts Warm White	140.00	lm	420.00	58,800.00
5.07	400Watts LED Strip Lights Driver	6.00	set	3,245.00	19,470.00
5.08	LED Emergency Light	39.00	set	2,050.00	79,950.00
5.09	Lighted Exit Sign Single Face	2.00	set	1,950.00	3,900.00
5.10	Lighted Exit Sign Double Face	4.00	set	2,590.00	10,360.00
5.11	Consumables	1.00	lot	15,000.00	15,000.00
5.12	Labor and equipment	1.00	lot	190,905.00	190,905.00
5.0	Testing and Commissioning (Panel and New Wirings)				
	Insulation Test, Live Test, Current Test, Continuity Test	1.00	lot	135,000.00	135,000.00
6.0	FDAS				
	Dismantling and reinstallation of FDAS and public address devices	1.00	lot	100,000.00	100,000.00
	Subtotal (Electrical Works)				5,362,886.82
	TOTAL PROJECT COST				21,658,054.82
	INDIRECT COST				
	OCM				2,436,366.58
	Contractor's profit				1,624,244.39
	VAT				3,086,239.89
	TOTAL PROJECT COST				28,804,905.67

Structural and Architectural Works
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