

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

Subject: BILL OF QUANTITIES

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
<b>I GENERAL REQUIREMENTS</b>					
1.00	Mobilization and demobilization	1.00	lot		
2.00	Construction health and safety provision	1.00	lot		
3.00	Temporary facilities	1.00	lot		
4.00	Scaffolding works	1.00	lot		
4.00	Tarpaulin billboard	1.00	lot		
<b>Subtotal (General Requirements)</b>					
<b>II STRUCTURAL WORKS</b>					
<b>1.00 Site Preparation Works</b>					
1.01	Orderly removal, hauling, and stockpiling of clay roof tiles	1.00	lot		
1.02	Removal of battens and other dilapidated clay roofing tile accessories	1.00	lot		
1.03	Removal of ceiling, including all unnecessary attachments	1.00	lot		
1.04	Demolition of mezzanine at Rooms 304 and 304A	1.00	lot		
1.05	Removal of paint and loose plasters of gable walls facing the roof	1.00	lot		
1.06	Declogging of existing roof and deck drains	1.00	lot		
1.07	Disposal of debris and site cleanup	1.00	lot		
<b>2.00 Steel Works (submit technical data sheet)</b>					
2.01	Metal battens, 23 x 0.6mm, 5.0m L	270.00			
2.02	Hat-type purlins, 45 x 0.8mm, 6.0m L	1,870.00			
2.03	Ceiling support: LC 100 x 50 x 15 x 1.5, 6.0m L (sp. @1.20m O.C.)	280.00	pcs		
2.04	Epoxy primer and rust remover for new and existing metal framing @ ±3000 sq.m. (verify)	1.00	lot		
2.05	Labor and equipment	1.00	lot		
<b>3.00 Roof Deck</b>					
3.01	Concrete topping, 50mm thk using G-3/8 crushed gravel, job-mix (1:2:4 by volume)	4.00	cu.m.		
3.02	Welded wire mesh reinforcement, 150 x 150 x 6.0mm	75.30	sq.m.		
3.03	Low viscosity concrete epoxy for bonding concrete topping to existing concrete slab/waterproofing	6.00	gal		
3.04	Labor and equipment	1.00	lot		
<b>Subtotal (Structural Works)</b>					
<b>III ARCHITECTURAL WORKS</b>					
<b>1.00 Various Repair Works</b>					
1.01	Repair and/or replacement of damaged portions of wooden deck/undersheeting @ approx 5% of total area	1.00	lot		
1.02	Replacement of dilapidated manhole frame using S/S 304 L 50 x 50 x 4.5mm, 6.0m L	1.00	lot		
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		
1.04	Gable wall repair/replastering works @ ±60 sq.m.	1.00	lot		
1.05	Repair and/or replacement of broken/dilapidated parts of existing wooden fascia boards and truss/rafter tails	1.00	lot		
<b>2.00 Waterproofing Works</b>					
2.01	Polyurethane-based liquid-applied waterproofing membrane (min. 2 coats) on roof deck and gable walls	134.70	sq.m.		
2.02	Elastomeric paint on gable walls @ ±60 sq.m.	1.00	lot		
2.03	Labor and equipment	1.00	lot		

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<b>3.00</b>	<b>Roofing Works (submit technical data sheet)</b>				
3.01	Stone-coated metal tile roof, 0.5mm thk, (verify color)	3,226.30	sq.m.		
3.02	Stone-coated ridge cap, 8' x 18" x 0.5mm	120.00	pcs		
3.03	Stone-coated wall flashing, 8' x 18" x 0.5mm	35.00	pcs		
3.04	Stone-coated valley gutter, 8' x 18" x 0.5mm	51.00	pcs		
3.05	Customized stone-coated Spanish gutter, cut from 8' x 36" x 0.6mm	181.00	pcs		
3.06	Stainless steel inside gutter, 8' x 24" x 0.6mm	12.00	pcs		
3.07	Waterproof underlayment: 30RF standard roofing felt	3,226.30	sq.m.		
3.08	Miscellaneous and consumables	1.00	lot		
3.09	Labor and equipment	1.00	lot		
<b>4.00</b>	<b>Ceiling Works</b>				
	<i>Hallway Ceiling: Flat Ceiling</i>				
4.01	4.5mm thk fiber cement board	497.00	sq.m.		
4.02	Light gauge metal framing spaced at 0.40m O.C.	497.00	sq.m.		
4.03	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot		
4.04	Labor and equipment	1.00	lot		
	<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.		
4.06	Tee-runner ceiling suspension ceiling grid system, HD hot-dipped galvanized steel	1,038.30	sq.m.		
4.07	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot		
4.08	Labor and equipment	1.00	lot		
	<i>Main Auditorium Ceiling: Recessed Ceiling (Same design as existing)</i>				
4.05	4.5mm thk fiber cement board	318.60	sq.m.		
4.06	Light gauge metal framing spaced at 0.40m O.C.	318.60	sq.m.		
4.07	Hangers and supports: Ø10 GI threaded rod and accessories	1.00	lot		
4.08	Wood cornices and mouldings (same design as existing)	135.10	l.m.		
4.09	Labor and equipment	1.00	lot		
<b>4.00</b>	<b>Painting/Repainting Works</b>				
4.01	Repainting of existing wooden fascia boards and soffit (at eaves), including truss/rafter tails @ ±2000 sq.m.	1.00	lot		
4.02	Painting of auditorium ceiling, semi-gloss/flat latex	340.10	sq.m.		
4.03	Painting of auditorium wood mouldings and cornices, quick-dry enamel	1.00	lot		
4.04	Labor and equipment	1.00	lot		
	<b>Subtotal (Architectural Works)</b>				
<b>IV</b>	<b>PLUMBING WORKS</b>				
<b>1.00</b>	<b>Repair and Adjustment of Downspouts</b>				
1.01	PVC pipe, Ø150mm x 3.0m L (submit technical data sheet)	8.00	pcs		
1.02	PVC pipe, Ø100mm x 3.0m L (submit technical data sheet)	8.00	pcs		
1.03	PVC fittings and accessories	1.00	lot		
1.04	Customized downspout clamps made from 50 x 6.0mm flat bars @ ±1,200 sets (submit technical data sheet)	1.00	lot		
1.05	Labor and equipment	1.00	lot		
<b>2.00</b>	<b>Roof Drains and Accessories</b>				
2.01	Aluminum mesh gutter guard @ 6" x 20' per roll	65.00	rls		
2.02	T304 s/s gutter/downspout strainer	66.00	pcs		
2.03	Parapet roof drain with angled strainer, heavy duty stainless-steel or cast aluminum finish	2.00	sets		
2.04	Labor and equipment	1.00	lot		
	<b>Subtotal (Plumbing Works)</b>				
<b>V</b>	<b>ELECTRICAL WORKS (submit technical data sheet)</b>				

Item No.	DESCRIPTION	Quantity	Unit	Unit Cost	Amount
				(PhP)	(PhP)
<b>1.0</b>	<b>Roughing-ins</b>				
1.01	40 mm Ø PVC pipe	20.00	pcs		
1.02	25 mm Ø PVC pipe	350.00	pcs		
1.03	20 mm Ø PVC pipe	824.00	pcs		
1.04	15 mm Ø flexible metal	300.00	lm		
1.05	4" x 4" metal junction box ga. 16 w/ cover	250.00	pcs		
1.06	2" x 4" metal utility box ga. 16	100.00	pcs		
1.07	20 mm Ø PVC male adaptor w/ locknut	498.00	pcs		
1.08	25 mm ØPVC male adaptor w/ locknut	285.00	pcs		
1.09	15 mm Ø connector w/ locknut and bushing	300.00	pcs		
1.10	3/8" full thread rod	200.00	pcs		
1.11	3/8" nut and washer	1,500.00	pcs		
1.12	2"x2" angle bar	100.00	pcs		
1.13	welding rod	35.00	kgs		
1.14	G.I. pull wire	50.00	kgs		
1.15	Heat Gun	3.00	pcs		
1.16	25 mm Ø U-Bolt	400.00	pcs		
1.17	20 mm Ø U-Bolt	950.00	pcs		
1.18	hacksaw blade	10.00	pcs		
1.19	Labor and equipment	1.00	lot		
<b>2.0</b>	<b>Wires and Accessories (submit technical data sheet)</b>				
2.01	250sqmm THHN Stranded Wire RYB	99.00	lm		
2.02	125sqmm THHN Stranded Wire RYB	30.00	lm		
2.02	60sqmm THHN Stranded Wire Green	33.00	lm		
2.03	50sqmm THHN Stranded Wire RYB	35.00	lm		
2.04	14sqmm THHN Stranded Wire Green	52.00	lm		
2.05	5.5sqmm THHN Stranded Wire 150 M	16.00	roll		
2.06	3.5sqmm THHN Stranded Wire 150M	50.00	roll		
2.07	Electrical Tape	50.00	pcs		
2.08	Labor and equipment	1.00	lot		
<b>3.0</b>	<b>Wiring Devices (submit technical data sheet)</b>				
3.1	One-Gang Single Switch Wide Series	7.00	set		
3.2	Two-Gang Single Switch Wide Series	11.00	set		
3.3	Three-Gang Single Switch Wide Series	11.00	set		
3.4	Three-Gang Three Way Switch Wide Series	4.00	set		
3.5	One-Gang Convenience Outlet Wide Series	51.00	set		
	Labor and equipment	1.00	lot		
<b>4.0</b>	<b>Panels and Boxes (submit technical data sheet)</b>				
4.1	MDP-PB (Industrial type MCCB)	1.00	assy		
	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		
	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		
	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		
	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		
	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				

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4.4	PP3F(Industrial type MCCB) 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	1.00	assy		
4.5	LP3F(Miniature type CB) 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	1.00	assy		
4.7	12'X 12' X 6' Pull Box Led Driver Panel 16"X16"X8" Powder Coated Metal Box Labor and equipment	2.00	set		
		1.00	set		
		1.00	lot		
<b>5.0</b>	<b>Lighting Fixture and Ceiling Equipment (submit technical data sheet)</b>				
5.01	15 Watts LED Slim Type Recessed Downlight (DL)	46.00	set		
5.02	30 Watts LED Slim Type Recessed Spotlight (DL)	24.00	set		
5.03	2-18 Tubular LED in 1200 x 600 Surface Mounted Troffer Type	57.00	set		
5.04	2-18 Tubular LED in 1200 x 600 Recessed Troffer Type Fixture	69.00	set		
5.05	1-18 Tubular LED in 1200 x 300 Surface Mounted Troffer Type	30.00	set		
5.06	5050, 60 LED's Cove Lights /Strip Lights 12 volts Warm White	140.00	lm		
5.07	400Watts LED Strip Lights Driver	6.00	set		
5.08	LED Emergency Light	39.00	set		
5.09	Lighted Exit Sign Single Face	2.00	set		
5.10	Lighted Exit Sign Double Face	4.00	set		
5.11	Consumables	1.00	lot		
5.12	Labor and equipment	1.00	lot		
<b>5.0</b>	<b>Testing and Commissioning (Panel and New Wireings)</b>				
	Insulation Test, Live Test, Current Test, Continuity Test	1.00	lot		
<b>6.0</b>	<b>FDAS</b>				
	Dismantling and reinstallation of FDAS and public address devices	1.00	lot		
	<b>Subtotal (Electrical Works)</b>				
	<b>TOTAL PROJECT COST</b>				
	<b>INDIRECT COST</b>				
	OCM				
	Contractor's profit				
	VAT				
	<b>TOTAL PROJECT COST</b>				

Prepared by:

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