

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF TWO (2) STOREY PUMAREN MULTI PURPOSE HALL AND REWIRING OF PUMAREN HALL AT JUAN SUMULONG HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 20 - 00142

DURATION : One Hundred Twenty (180) Calendar Days

SCOPE OF WORKS:

1. General requirement include temporary facilities and utilities, billboard, construction safety and health, scaffolding, and clearing, hauling and disposal of construction materials and debris.
2. Construction of two (2) storey Pumaren multi-purpose hall.
 - A. Demolition of TLE Center and Comfort Room for the location of the proposed structure.
 - B. Site Works include site clearing, layout and staking, and earthworks.
 - C. Civil and Structural Works including concreting works, masonry works, metal fabrication, roofing works, and provision for thermal proofing and vapor barrier.
 - D. Architectural Works including floor finishes, wall finishes, ceiling finishes, and painting works.
 - E. Installtion of doors, door jambs, and windows.
 - F. Installation of logos and letterings.
 - G. Installation sanitary/plumbing roughing-ins, equipment, fixtures and accessories.
 - H. Installation of electrical roughing-ins, wirings, devices and fixtures.
 - I. Installation of panelboard and its accessories.
 - J. Construction of septic tank, area drain/catch basin, and trench drain.
3. Rewiring of Pumaren Hall
 - A. Remove and replace dilapidated ceiling at the second floor of Pumaren Building.
 - B. Installation of electrical roughing-ins, wirings, devices and fixtures.
 - C. Installation of panelboard and its accessories.
4. All necessary testing of materials and commissioning works must be performed as per standard procedures.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I.	GENERAL REQUIREMENTS				
	Billboard	1	pc	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	30	t.l.		
	Construction Health and Safety	1	unit		
	Scaffolding (Rental)	92	sq.m.		
	Temporary Electrical and Water Facilities	120	days		
	Temporary Enclosure Around the Construction Area (H=2.4m)	23	l.m.		
				Direct Cost I	₱
II.	CONSTRUCTION OF TWO (2) STOREY PUMAREN MULTI-PURPOSE HALL				
A.	SITE WORKS				
	Demolition Works				
	Ceiling	64	sq.m.	₱	₱
	CHB Walls	74	sq.m.		
	Concrete Slab	64	sq.m.		
	Countertop Lavatory	4	sq.m.		
	Doors	4	sets		
	Door Jambs	8	l.m.		
	Roofing and Bended Accessories	64	sq.m.		
	Roof Framing	64	sq.m.		
	Windows	7	sq.m.		
	Plumbing Fixtures				
	Water Closet	3	sets		
	Lavatory	3	sets		
	Floor Drain	3	sets		
	Layout and Staking	62	sq.m.		
	Site Clearing and Preparation	62	sq.m.		
	Excavation for Works				
	Column Footing	36	cu.m.		
	Wall Footing	16	cu.m.		
				Subtotal	₱
	Soil Treatment	62	sq.m.	₱	₱
	Gravel Bedding	6	cu.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Backfill and Compaction	32	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost A	₱
				Labor Cost A	
				Direct Cost A	₱
B.	CIVIL / STRUCTURAL WORKS				
	Concrete Works				
	Ready Mix Concrete, 28 MPa, 3/4" Gravel, 28 days				
	Column Footing	11	cu.m.	₱	₱
	Wall Footing	6	cu.m.		
	Column	9	cu.m.		
	Slab-on-Fill	14	cu.m.		
	Beam	13	cu.m.		
	Suspended Slab	6	cu.m.		
	On Site Mix Concrete				
	Stairs	3	cu.m.		
	Concrete Lavatory	6	cu.m.		
	Lintel Beam	1	cu.m.		
	Canopy	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bars with G.I. Tie Wire #16				
	10mmØ Column	568	kg		
	10mmØ Slab On-Fill	210	kg		
	10mmØ Beam	754	kg		
	10mmØ Lintel Beam	47	kg		
	10mmØ Stairs	250	kg		
	10mmØ Concrete Lavatory	32	kg		
	12mmØ Wall Footing	263	kg		
	12mmØ Suspended Slab	777	kg		
	12mmØ Lintel Beam	68	kg		
	12mmØ Canopy	86	kg		
	Grade 60 Reinforcing Steel Bars with G.I. Tie Wire #16				
	16mm Ø Reinforcing Steel Bar				
	16mmØ Column Footing	965	kg		
	16mmØ Column	1,462	kg		
	16mmØ Beam	1,671	kg		
	Formworks				
	Column	126	sq.m.		
	Beam	45	sq.m.		
	Suspended Slab	63	sq.m.		
	Stairs	12	sq.m.		
	Lintel Beam	9	sq.m.		
	Canopy	8	sq.m.		
	Concrete Lavatory	6	sq.m.		
	Scaffoldings / Shoring				
	Column	103	l.m.		
	Beam	114	l.m.		
	Stair	76	sq.m.		
	Suspended Slab	131	sq.m.		
	Lintel Beam	14	l.m.		
	Canopy	8	sq.m.		
	Concrete Lavatory	6	sq.m.		
	Thermal and Moisture Protection				
	Vapor Barrier	62	sq.m.		
	Cementitious Capillary Type Waterproofing (Toilet)	7	sq.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement, and Two-face Plastering (Interior Wall)	18	sq.m.	₱	
	150mm CHB Laying including Mortar, Reinforcement, and Two-face Plastering (Exterior Wall)	252	sq.m.		
	Plastering of Door and Window Opening	91	l.m.		
	Plastering of Column and Beam	171	sq.m.		
	Floor Topping Preparation for Tiles	147	sq.m.		
	Metal Works				
	50mm x 50mm x 6mm Angular Bar	188	kg		
	64mm x 64mm x 6mm Angular Bar	416	kg		
	50mm x 50mm x 2mm Tubular	29	kg		
	25mm x 25mm x 1.2mm Channel Bar	11	kg		
	50mm x 100mm x 1.2mm Channel Bar	245	kg		
	50mm x 100mm x 6mm Gusset Plate	70	kg		
	12mmØ Tension Rod	12	kg		
	12mmØ Sag Rod	3	kg		
	50mmØ Stainless Steel (Hand Grab for Stair)	7	l.m.		
	12mmØ Anchor Bolt	16	pcs		
	Turn Buckle	12	pcs		
	Dyna Bolt	6	pcs		
	Miscellaneous and Consumables				
	Acetylene Tank Refill	2	tanks		
	Assorted Metal Drill Bit	10	pcs		
	Cut Off Blade	10	pcs		
	Grinding Disc Metal	10	pcs		
	Oxygen tank Refill	4	tanks		
	Welding Rod	3	boxes		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	82	sq.m.		
	Pre-Painted G.I. End Flashing	15	l.m.		
	Tekscrew	347	pcs		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱
C.	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Ceramic Tiles	7	sq.m.	₱	₱
	300mm x 300mm Non Skid Ceramic Tiles	9	sq.m.		
	600mm x 600mm Ceramic Tiles	108	sq.m.		
	Rubber Stair Nosing	23	l.m.		
	Wall Finishes				
	300mm x 300mm Ceramic Tiles	27	sq.m.		
	300mm x 300mm Splash Board Glaze Wall Tiles	3	sq.m.		
	Plastering Guide / Grooves	105	l.m.		
	4mm thk Aluminum Composite Panel with Complete Framing and Accessories	32	sq.m.		
	300mm x 600mm Brickstone	2	sq.m.		
	Ceiling Finishes				
	6mm thk Fiber Cement Board with Complete Framing and Accessories	131	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - 1.6m x 2.1m Double Swing Glass Door on Aluminum Framing with Complete Accessories	1	set	₱	₱
	D2 - 1.6m x 2.1m Two-Leaf Metal Door	1	set		
	D3 - 0.70m x 2.1m Metal Door with Grooves	1	set		
	D4 - 0.70m x 2.1m Flush Door with Louvers with Complete Accessories	2	sets		
	D5 - 1.00m x 2.10m Steel Door 50mm x 100mm x 2.0mm Tubular frame with 25mm x 50mm x 1.5mm	1	set		
	Door Jambs				
	D2 - 1.6m x 2.1m Metal Door Jamb	1	set		
	D3 - 0.70m x 2.1m Metal Door Jamb	1	set		
	D4 - 0.70m x 2.1m Wooden Door Jamb	2	sets		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Hardware and Accessories				
	Door Hinges	15	sets		
	Door Knobs	2	sets		
	Barrel Bolt	2	sets		
	Installation of Windows				
	W1 - 1.2m x 1.2m Sliding Glass window on Aluminum Framing with Complete Accessories	8	sets		
	W2 - 0.6m x 0.4m Awning Glass Window on Aluminum Framing with complete accessories	4	sets		
	W3 - 1.8m x 1.2m Sliding Glass Window on Aluminum Framing with complete accessories	1	set		
	W4 - 2.4m x 2.1m 10mm Thk. Tempered Fixed Glass on Powdered Coated Aluminum Frame	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	174	sq.m.	₱	₱
	Flat Latex Paint Finish				
	Interior Wall	258	sq.m.		
	Ceiling	131	sq.m.		
	Stair (Riser)	5	sq.m.		
	Epoxy Enamel Finish (Steel Members)	1	sq.m.		
	Logos and Lettering				
	QC Logo	1	set		
	Stainless Steel Lettering "PUMAREN HALL"	11	sets		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D.	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	50mmØ PVC Pipe with Hub	16	pcs	₱	₱
	75mmØ PVC Pipe with Hub	7	pcs		
	100mmØ PVC Pipe with Hub	23	pcs		
	75mmØ x 50mmØ Wye	12	pcs		
	100mmØ x 50mmØ Wye	11	pcs		
	100mmØ x 75mmØ Wye	7	pcs		
	100mmØ x 100mmØ Wye	10	pcs		
	50mmØ x 50mmØ Tee	21	pcs		
	75mmØ x 50mmØ Tee	8	pcs		
	100mmØ x 100mmØ Tee	7	pcs		
	50mmØ 1/4 Bend	11	pcs		
	75mmØ 1/4 Bend	5	pcs		
	100mmØ 1/4 Bend	11	pcs		
	50mmØ 1/8 Bend	11	pcs		
	75mmØ 1/8 Bend	5	pcs		
	100mmØ 1/8 Bend	13	pcs		
	100mmØ Cleanout	10	pcs		
	50mmØ Cleanout	4	pcs		
	50mmØ P-Trap	8	pcs		
	100mmØ x 75mmØ Reducer	5	pcs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Waterline System				
	20mmØ PVC Pipe with Hub	12	pcs		
	25mmØ PVC Pipe with Hub	5	pcs		
	20mmØ x 20mmØ Tee Equal	15	pcs		
	25mmØ x 25mmØ Tee Equal	12	pcs		
	25mmØ x 20mmØ Reducer	1	pc		
	20mmØ End Cap	8	pcs		
	25mmØ End Cap	7	pcs		
	20mmØ 90° Elbow	14	pcs		
	25mmØ 90° Elbow	8	pcs		
	20mmØ Union Patent	2	pcs		
	25mmØ Union Patent	2	pcs		
	20mmØ x 12mmØ Female Threaded Tee	7	pcs		
	25mmØ x 20mmØ Female Threaded Tee	6	pcs		
	20mmØ Coupling	15	pcs		
	25mmØ Coupling	19	pcs		
	20mmØ Male Adaptor	6	pcs		
	25mmØ Male Adaptor	2	pcs		
	20mmØ Gate Valve PPR	3	pcs		
	25mmØ Gate Valve PPR	1	pc		
	25mmØ Check Valve	1	pc		
	Fixtures and Accessories (Water Efficient)				
	Water Closet, Tank Type with Accessories	2	sets		
	Urinal, Flush Valve	2	sets		
	Lavatory, Wall Hung	2	sets		
	Lavatory Faucet	2	sets		
	Hose Bibb	7	sets		
	Kitchen Sink, Single Tub	1	set		
	5GPM Grease Trap	1	set		
	Kitchen Sink Faucet	1	set		
	50mmØ Floor Drain	3	pcs		
	Stainless Flexible Hose	14	pcs		
	Stainless Angle Valve	14	pcs		
	25mmØ Water meter	1	pc		
	Pipe Hangers and Supports				
	For horizontal pipes less than 50mm diameter (2m interval)	55	l.m.		
	For horizontal pipes greater than 50mm diameter (1m interval)	83	l.m.		
	Miscellaneous and Consumables				
	400cc Solvent Cement	4	cans		
	All Around Sealant	3	gal		
	Concrete Neutralizer	4	gal		
	Hacksaw Blade	8	pc		
	Silicon Sealant	5	tubes		
	Teflon Tape	30	pcs		
	Waste Cloth	10	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
E.	ELECTRICAL WORKS				
	Roughing-Ins				
	20mm Ø PVC Pipe	178	pcs	₱	₱
	32mm Ø PVC Pipe	10	pcs		
	20mm Ø PVC Adaptor	168	pcs		
	32mm Ø PVC Adaptor	1	pc		
	20mm Ø PVC Locknut and Bushing	336	pcs		
	32mm Ø PVC Locknut and Bushing	2	pcs		
	32mm Ø PVC Elbow	5	pcs		
	25mm Ø Weatherproof Entrance Cap, Diecast type	1	pc		
	50mm x 100mm Metal Utility Box	1	pc		
	100mm x 100mm Metal Junction box	1	pc		
	20mm x 20mm x 300mm Pullbox	1	pc		
	20mm Ø x 3000mm Grounding Rod (Copper Clad) with Ground Clamp	1	pc		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	2.0mm ² THHN Wire	3	rolls		
	3.5mm ² THHN Wire	12	rolls		
	5.5mm ² THHN Wire	3	rolls		
	8.0mm ² THHN Wire	20	l.m.		
	30.0mm ² THHN Wire	180	l.m.		
	Wiring Devices and Fixtures				
	Convenience Outlet with Grounding, and Plate and Cover, Single	2	pcs		
	Convenience Outlet with Grounding, and Plate and Cover, Duplex	18	pcs		
	Aircon Outlet, Multi-Purpose Outlet 250V/20A	4	pcs		
	Switch with Plate and Cover, Single Pole	3	pcs		
	Switch with Plate and Cover, Two Pole	5	pcs		
	Switch with Plate and Cover, Three Pole	2	pcs		
	Three way Switch with Plate and Cover	2	pcs		
	Selector Switch	6	pcs		
	Orbit Fan	12	pcs		
	Lighting Fixtures (Energy Efficient)				
	T5, 28w Tube Light	21	pcs		
	18W LED Bulb	11	pcs		
	150mm Ø Round Surface Pinlight (Casing Only)	11	pcs		
	Fabricated Outdoor Triangular Façade Luminaire with 2x18W Tube	2	pcs		
	Emergency Light, Twin-Head	2	pcs		
	Panelboards				
	Main: 1-100 AT, 2P, 240V, Bolt-on, 240V, 60Hz	1	assy		
	Branches: 6-20 AT, 2P, CB, 240V				
	Branches: 7-30 AT, 2P, CB, 240V				
	Miscellaneous and Consumables				
	400cc Solvent Cement	4	cans		
	Electrical Tape	15	rolls		
	G.I. Tie Wire (for Cable Pulling)	10	kg		
	Hacksaw Blade	10	pcs		
	Masking Tape	8	rolls		
	Rubber Tape	4	rolls		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
F.	UTILITY AND ANCILLARY WORKS				
	Trench with Steel Grating (0.5m W)	20	l.m.	₱	₱
	Area Drain/Catch Basin (0.48m x 0.48m)	3	units		
	Septic Tank (3.45m L x 1.65m W x 2.1m D)	12	cu.m.		
				Direct Cost F	₱
				Materials Cost II	₱
				Labor Cost II	
				Direct Cost II	₱
III.	REWIRING OF PUMAREN HALL				
A.	SITE WORKS				
	Removal of Existing Ceiling	446	sq.m.	₱	₱
				Direct Cost A	₱
B.	ARCHITECTURAL WORKS				
	Ceiling Finishes				
	6mm thk. Fiber Cement Board with Complete Framing and Accessories	446	sq.m.		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
C.	ELECTRICAL WORKS				
	Roughing-Ins				
	20mm Ø IMC Pipe	110	pcs	₱	₱
	20mm Ø IMC Coupling	80	pcs		
	20mm Ø IMC Elbow	60	pcs		
	100mm x 100mm PVC Junction Box with Cover	40	pcs		
	Wires and Cables				
	2.0mm² THHN Wire	7	rolls		
	3.5mm² THHN Wire	15	rolls		
	Wiring Devices and Other Fixtures				
	Convenience Outlet with Grounding, and Plate and Cover, Duplex	24	pcs		
	Orbit Fan	40	pcs		
	Selector Switch	40	pcs		
	Switch with Plate and Cover, Two Pole	10	pcs		
	Lighting Fixtures(Energy Efficient)				
	300mm x 1200mm, 1 x 18W LED, Troffer Type with Accessories	64	pcs		
	Panelboards and Circuit Breaker				
	Main Circuit Breaker, MCB	1	assy		
	Main: 125 AT, 2P, 240V, MCCB in Nema 3R				
	Distribution Panel	1	assy		
	Main: 1-125 AT, 2P, 240V, Bolt-on, 240V, 60Hz				
	Branches: 4-30 AT,10-20AT, 2P, CB, 240V and 2-Spare				
	Miscellaneous and Consumables				
	G.I. Tie Wire (for Cable Pulling)	5	kg	₱	₱
	Electrical Tape	20	rolls		
	Rubber Tape	10	rolls		
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
				Materials Cost III	₱
				Labor Cost III	
				Direct Cost III	₱

SUMMARY

ITEM NO	WORK DESCRIPTION and SCOPE OF WORKS	TOTAL COST
I.	GENERAL REQUIREMENTS	₱
II.	CONSTRUCTION OF TWO (2) STOREY PUMAREN MULTI-PURPOSE HALL	
III.	REWIRING OF PUMAREN HALL	
	TOTAL DIRECT COST	₱
	Overhead, Contingencies and Miscellaneous Expenses (OCM)	
	Profit	
	VAT	
	TOTAL ESTIMATED COST	₱

PROJECT TITLE: PROPOSED CONSTRUCTION OF TWO (2) STOREY PUMAREN MULTI PURPOSE HALL AND REWIRING OF PUMAREN HALL AT JUAN SUMULONG HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 20 - 00142

DURATION : One Hundred Twenty (180) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I.	GENERAL REQUIREMENTS				
II.	CONSTRUCTION OF TWO (2) STOREY PUMAREN MULTI-PURPOSE HALL				
III.	REWIRING OF PUMAREN HALL				

TOTAL COST P _____

LUMP SUM BID IN WORDS : _____

Contractor : _____