

REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT  
**PHILIPPINE PUBLIC SAFETY COLLEGE**  
MWSS COMPOUND, MATANDANG BALARA, QUEZON CITY  
**BILL OF QUANTITIES (BOQ)**

**PROJECT TITLE : PROPOSED PPSCHO MESSHALL BUILDING**

LOCATION: PPSC Head Office, MWSS Compound, Kalayaan C5 corner Ayala Hts, Old Balara, Quezon City

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
1	<b>GENERAL REQUIREMENTS</b>				
	Temfacil (Field Office/Bunk House/Bodega)	1	lot		
	Construction Safety & Health Program	1	lot		
	Mobilization/ Demobilization	1	lot		
	Permits and Licenses	1	lot		
	Utilities (H2O and Power) Usage	1	lot		
	Communication and Net Usage	1	lot		
	Demolition Works of Existing Structure	1	lot		
	Temporary Fence and Security	1	lot		
				Sub-total	
2	<b>STAKING OF GRID LINES AND GRADE (elevation) IDENTIFICATION</b>				
	Coco Lumber x 10' 50mmx100mm	140	pcs		
	Coco Lumber x 8' 50mmx100mm	200	pcs		
	#16 GI Wire	1	keg		
	Common Nails #4	15	kls		
	Common Nails #2	25	kls		
	Common Nails #3	15	kls		
	Survey Works triple checking and realligning of grid line including elevation marking and leveling.	1	lot		
				Sub-total	
3	<b>FOUNDATION WORKS</b>				
3.1	<b>FOOTING</b>				
3.1	<b>Footing F1</b>				
	Ready Mix Concrete 4000 psi	6.7	cu.m		
	Rebars (12mm dia. X 6m)	251	kgs		
	Forms and Shuttering	7.2	sq.m		
	Excavation	44.1	cu.m		
	Backfilling	37.48	cu.m		
3.11	<b>Footing F2</b>				
	Ready Mix Concrete 4000 psi	6.62	cu.m		
	Rebars (12mm dia. X 6m)	261	kgs		
	Forms and Shuttering	7.2	sq.m		
	Excavation	44.1	cu.m		
	Backfilling	37.48	cu.m		
3.12	<b>Footing F3</b>				
	Ready Mix Concrete 4000 psi	4.4	cu.m		
	Rebars (12mm dia. X 6m)	143	kgs		
	Forms and Shuttering	15.7	sq.m		
	Excavation	25	cu.m		
	Backfilling	20.6	cu.m		
3.13	<b>Footing F4</b>				
	Ready Mix Concrete 4000 psi	2.95	cu.m		

	Rebars (12mm dia. X 6m)	101	kgs		
	Forms and Shuttering	10.4	sq.m		
	Excavation	26.1	cu.m		
	Backfilling	23.15	cu.m		
3.14	Footing F5				
	Ready Mix Concrete 4000 psi	2.1	cu.m		
	Rebars (12mm dia. X 6m)	52	kgs		
	Forms and Shuttering	5.6	sq.m		
	Excavation	13.7	cu.m		
	Backfilling	12.7	cu.m		
3.2	TIEBEAM				
	Ready Mix Concrete 4000 psi	5.5	cu.m		
	Rebars (10mm dia. X 6m)	406.25	kgs		
	Rebars (16mm dia. X 6m)	471.55	kgs		
	Forms and Shuttering	70	sq.m		
	Excavation	11	cu.m		
					Sub-total
4	SUPERSTRUCTURE WORKS				
	a. Pedestal Column				
	Ready Mix Concrete 4000 psi	3.3	cu.m		
	Rebars (8mm dia. X 6m)	375	kgs		
	Rebars (16mm dia. X 6m)	765	kgs		
	Rebars (20mm dia. X 6m)	480	kgs		
	Forms and Shuttering	22	sq.m		
	b. Columns				
	W14X48 Column - 3	1,288.54	kgs		
	W16X57 Column x 4m -12	6,121.00	kgs		
	W8X15 Column - 10	336	kgs		
	25mm thk Base Plate	15	sets		
	25mm Ø Bolt x 36" with Nuts	180	pcs		
	Welding Rod	1	box		
	c. Beams and Girders (2nd Floor)				
	W14X61 Beam	6450	kgs		
	W16X57 Girder	5310	kgs		
	W12X22 Beam	630	kgs		
	W12X40 Beam	3930	kgs		
	6mm thk steel plate 4"x8"	10	shts		
	12mm Ø Bolt x 1" with Nuts	180	pcs		
	16mm Ø Bolt x 1" with Nuts	320	pcs		
	20mm Ø Bolt x 1" with Nuts	100	pcs		
	Ready Mix 3000 PSI	23.7	cu.m		
	12mm Ø DSB x 6.0m	1271	kgs		
	#16 G.I. Wire	3	rolls		
	1.2mm x 900mm Steel Metal Deck	230	lin.m		
	3000psi Ready Mix Concrete	19.8	cu.m		
	d. Beams and Girders (Roofdeck)				
	W14X61 Beam	3,530	kgs		
	W16X57 Girder	1,110	kgs		
	W12X22 Beam	870	kgs		
	W12X40 Beam	4300	kgs		

	6mm thk steel plate 4"x8"	10	shts		
	12mm Ø Bolt x 1" with Nuts	180	pcs		
	16mm Ø Bolt x 1" with Nuts	100	pcs		
	20mm Ø Bolt x 1" with Nuts	100	pcs		
	Ready Mix 3000 PSI	21.25	cu.m		
	12mm Ø DSB x 6.0m	1326	kgs		
	#16 G.I. Wire	2	rolls		
	1.2mm x 900mm Steel Metal Deck	221	lin.m		
	3000psi Ready Mix Concrete	17.85	cu.m		
	e. Ground Floor and Main Entrance				
	Ready Mix 3000 PSI	21.25	cu.m		
	12mm Ø DSB x 6.0m	1326	kgs		
	#16 G.I. Wire	2	rolls		
	e. Forms, Braces and Support				
	1/2" Thk Phenolic Board	25	pcs		
	2" x 3" x 12' Coco Lumber	100	pcs		
	2" dia. GI Pipe x 6m with Clamp	75	pcs		
	Fabricated H-Frame	50	sets		
	CW Nail 4"	1	kegs		
	CW Nail 3"	1	kegs		
	CW Nail 2"	5	kegs		
	Shoring Jack with Adjuster	30	sets		
				Sub-total	
5	MASONRY WORKS				
	5.a Laying				
	5" Thk CHB	3000	pcs		
	Sand	23	cu.m		
	Cement	150	bags		
	10mm Ø Dowels x 6m	300	pcs		
	5.b Plastering				
	Plaster Wall	456	sqm		
	Wash out Plastering	160	sqm		
	5.c Waterproofing				
	Double Coat Masonry Waterproofing	250	sqm		
				Sub-total	
6	CEILING WORKS				
	9mm thk 1.2x2.4M Gypsum Board	230	pcs		
	0.70 Carrying Channel x 5m	500	pcs		
	Metal Double Furring X 5m	480	pcs		
	Wall Angle	250	pcs		
	W-Clip	2600	pcs		
	Black Screw	4800	pcs		
	Blind Rivets 1/8x1/2	8	box		
	Metal Drill Bits 1/8x1/2	12	pcs		
				Sub-total	
7	ELECTRICAL WORKS				
	1 Gang Switch with Cover	10	set		
	2 Gang Switch with Cover	5	set		
	Duplex Outlet	26	set		
	Utility Box 2"x4"	40	pcs		

	Pin-lights 8watts Led	96	set		
	Pin-lights Pendant 8watts Led	8	set		
	1x16 watts Led Pendant	22	set		
	2x16 watts Led	47	set		
	Junction Box 4"x4"	120	pcs		
	20mmØPVC	320	pcs		
	3.5mm2 THHN BLK	10	box		
	3.5mm2 THHN GREEN	8	box		
	5.5mm2 THHN BLK	4	box		
	5.5mm2 THHN GREEN	2	box		
	14mm2 THW BLK	150	mtr		
	14mm2 THW GREEN	100	mtr		
	8mm2 THW BLK	150	mtr		
	8mm2 THW WHITE	100	mtr		
	30mm2 THHN BLK	210	mtr		
	30mm2 THHN WHITE	100	mtr		
	40mmØPVC x 6m	24	pcs		
	32mmØPVC x 6m	5	pcs		
	MDP				
	1pc Main 100AT / 100AF / 3P	1	sets		
	1pc 70AT / 100AF / 3P				
	1pc 50AT / 50AF / 3P				
	PPLP-1				
	1pc Main 50AT / 50AF / 3P	1	set		
	2pcs 30AT / 50AF / 3P				
	8pcs 20AT / 50AF / 3P				
	PPLP-2				
	1pc Main 70AT / 100AF / 3P	1	set		
	4pcs 30AT / 50AF / 3P				
	10pcs 20AT / 50AF / 3P				
	40mmØRSC	2	pcs		
	40mmØRSC Entrance Cap	1	pcs		
	40mmØRSC Elbow	1	pcs		
	Ground Rod 5/8"x8' with Clamp	1	set		
	Mema 3R 30AT / 3P with M&G	5	set		
					Sub-total
8	<b>SANITARY AND PLUMBING WORKS</b>				
	a. Plumbing Fixtures and Accessories				
	Water Closet	5	pcs		
	Lavatory	5	pcs		
	Urinal Sink	5	pcs		
	Dual Faucet	5	pcs		
	Faucet	5	pcs		
	Bidet	5	pcs		
	Angle Valve (Set)	48	pcs		
	Teflon Tape	30	rolls		
	PVC Solvent	3	pcs		
	4x4 Stainless Floor Drain	5	pcs		
	6x6 Floor Drain (Down Spout)	15	pcs		
	b. Sanitary Lines and Sewer System				
	Sand	2	cu.m		
	Cement	20	bags		

	300 RCP	20	pcs		
	375 RCP	30	pcs		
	450 RCP	20	pcs		
	6" PVC Pipe x3m	4	pcs		
	6" Coupling	4	pcs		
	6" Elbow	2	pcs		
	6" x 4" PVC Reducer	2	pcs		
	4"Ø PVC Pipe x 3m	36	pcs		
	4"Ø Coupling	18	pcs		
	4"Ø x2 Wye Reducer	36	pcs		
	4"Ø TEE	10	pcs		
	4"Ø Elbow	36	pcs		
	2"Ø PVC Pipe x 3m	30	pcs		
	4"Ø x2" PVC TEE	10	pcs		
	2" Elbow	50	pcs		
	6" Elbow	4	pcs		
	4" Clean Out	8	pcs		
	2"Ø P-Trap	21	pcs		
	c. Catch Basin				
	4" CHB	600	pcs		
	10mmØ DSB	50	pcs		
	Sand	6	cu.m		
	Gravel	2	cu.m		
	#16 GI Wire	6	kgs		
	Cement	70	bags		
	d. Water Supply and Waterlines				
	75Ø mm Elbow	5	pcs		
	75Ø mm PPR x 5m	5	pcs		
	75Ø mm Coupling	8	pcs		
	75Ø mm TEE	3	pcs		
	75Ø mm Gate Valve	1	pcs		
	75Ø mm Check Valve	1	pcs		
	75Ø mm x 63mm TEE Reducer	4	pcs		
	75Ø Union Patente	1	pcs		
	75Ø mm Male Adapter	4	pcs		
	75Ø mm Female Adapter	6	pcs		
	75Ø mm x 20mm TEE Reducer	15	pcs		
	63Ø mm PPR Pipe x 5m	5	pcs		
	63Ø mm PPR Coupling	6	pcs		
	63Ø mm x 50mm TEE Reducer	4	pcs		
	50 mm PPR Pipe x 5m	14	pcs		
	50 mm Union Patente	4	pcs		
	50 mm Coupling	14	pcs		
	50 mm x 40 mm TEE Reducer	8	pcs		
	40 mm PPR Pipe x 5m	6	pcs		
	40 mm PPR Gate Valve	5	pcs		
	40 mm Female Adapter	5	pcs		
	40 mm Male Adapter	4	pcs		
	40 mm x 20 TEE Reducer	12	pcs		
	50 mm x 20 TEE Reducer	27	pcs		
	20 mm PPR Pipe x 5m	16	pcs		
	20 mm PPR Elbow	40	pcs		
	20 mm Female Adapter	10	pcs		

	20 mm Male Adapter	10	pcs		
				Sub-total	
9	DOORS AND WINDOWS				
	a. Doors (See Door Schedule)				
	(D-01) 0.90Mx2.1M Solid Wood Panel (Main Door)	5	sets		
	(D-02) 2.09mx2.30m Double Leaf Glass Solid Wood Panel	1	set		
	(D-03) 2.15mx0.95m Single Leaf Glass Solid Wood Panel	2	set		
	(D-04) 1.05mx2.30m Single Leaf Glass Solid Wood Panel	2	set		
	(D-05) 1.20mx1.50m Highly Insulated Steel Fire Exit Door	1	set		
	b. Windows (See Window Schedule)				
	(W-01) 1.80mx3.080m Fixed and Awning Type With 5mm thk clear glass on alluminum frame	1	set		
	(W-02) 1.80mx2.351m Fixed and Awning Type With 5mm thk clear glass on alluminum frame	1	set		
	(W-03) 2.654mx3.35m Fixed and Awning Type with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-04) 3.282mx1.800m Fixed and Awning Type with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-05) 2.09mx1.200m Fixed with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-06) 1.722mx3.35m Fixed and Awning Type with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-07) 1.20mx2.3m Sliding Type Window with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-08) 0.60mx1.075m Awning Type Window with 5mm thk clear glass on Alluminum Frame	6	sets		
	(W-09) 4.60mx3.35m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-10) 4.40mx3.35m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-11) 4.40mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	3	sets		
	(W-12) 3.90mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-13) 2.10mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-14) 2.25mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-15) 2.854mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-16) 2.35mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	4	sets		
	(W-17) 2.35mx0.70m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	2	sets		

	(W-18) 1.050mx0.5m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	2	sets		
	(W-19) 2.50mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
	(W-20) 2.854mx2.65m Fixed and Awning Type Window with 5mm thk clear glass on Alluminum Frame	1	set		
				Sub-total	
10	STEEL & IRON WORKS				
	a. Stair Safety Handrails and Balcony				
	50mm Tubular Stainless External Stair Handrail	23.35	sq.m		
	50mm Tubular Stainless Inner Stair Handrail	4.38	sq.m		
	b. Façade				
	50x50mm Thk. Tubular Stainless Steel Hairline Finish Colored on Bronze	144	sq.m		
	Stainless Handrail for PWD	5	sq.m		
	W10X12 x20' Ibeam Diagonal Frame	10	pcs		
	6mmx50mmx50mm Angle Bars x 6m	58	pcs		
	6mm thick chequered plate 4'x8'	4	shts		
	welding rod	12	bxs		
	3000psi concrete	5	cu.m		
				Sub-total	
11	TILE WORKS				
	(F4) Crazy Cut Stone	133	sq.m		
	(F3) Pavers	100	sq.m		
	(F2) Grass Turf	120	sq.m		
	(F1) 0.60x0.60M Floor Tiles Cosmos White	445	pcs		
	(F5) 600mmx600mm Solid Ash	133	sq.m		
	(F6) Vinyl Planks	198	sq.m		
	Tile Cutter (Cutting Disc)	8	pcs		
	Rugby	8	pcs		
	250mmx750mm Wall Tiles Accent	20	pcs		
	600mmx600mm Ceramic Wall Tiles	36	pcs		
				Sub-total	
12	FIRE PROTECTION WORK				
	a. Fire Protection Fixtures and Accessories				
	Fire Extinguishers 10lbs ABC Portable	16	sets		
				Sub-total	
13	ROOFING AND ROOF FRAMING WORKS				
	W10X12 Roof Frame	2320	kgs		
	1.2mmx150mmx6m C-purlins	55	pcs		
	16mm Ø Bolt x 1" with Nut	96	pcs		
	Welding Rod	3	bxs		
	6mmx63mmx63mm Angular Plate x 6m	12	pcs		
	Prepainted Rib-type Roof 1mm thk	298	lnm		
	2" Tekscrew	4,768.00	pcs		
	25mm thk fascia board Hardiflex x 10'	10	pcs		
				Sub-total	
13	SPECIALTY WORKS				
	a. Signages and other Accessories				
	8" DILG (Sized)	41	letters		

	8" PPSC (Sized)	29	letters		
	1.0M Diameter Logos (Sized)	2	sets		
	9mm Thk. Clear Tempered Glass Fixed Type in Allum. Casement (Tinted Color Blue)	5.8	sqm		
	50x50mm Thk. 50mm in Spacing Tubular Stainless Steel Hairline Finish Colore on Bronze	11.54	sqm		
	.30x1.0M Ceramic Wood Tiles	53	pcs		
	50x50mm Thk. 150mm in Spacing Tubular Stainless Steel Hairline Finish Colore on Bronze	20.52	sqm		
				Sub-total	
14	PAINTING WORKS				
	Flat Latex Paint	24	tins		
	Semi-Gloss Latex Paint	24	tins		
	Metal Primer Gray	10	tins		
	Flat Wall Enamel Paint	8	tins		
	Semi- Gloss Enamel Paint	8	tins		
	Skim Coat	85	bags		
	Paint Thinner	12	gal		
	Paint Roller # 7"	16	pcs		
	Paint Brush # 3"	16	pcs		
	Paint Tray	16	pcs		
	Cotton Rug	31	kgs		
	Spatula	12	pairs		
				Sub-total	

### SUMMARY

1 GENERAL REQUIREMENTS		
2 STAKING OF GRID LINES AND GRADE (elevation) IDENTIFICATION		
3 FOUNDATION WORKS		
4 SUPERSTRUCTURE WORKS		
5 MASONRY WORKS		
6 CEILING WORKS		
7 ELECTRICAL WORKS		
8 SANITARY AND PLUMBING WORKS		
9 DOORS AND WINDOWS		
10 STEEL & IRON WORKS		
11 TILE WORKS		
12 FIRE PROTECTION WORK		
13 SPECIALTY WORKS		
14 PAINTING WORKS		
Material Cost		
Labor Cost		
Direct Cost		
General Requirements		
Overhead, Contingencies and Miscellaneous		
Contractor's Profit		
Indirect Cost		
Taxes		
<b>Total Project Cost</b>		