



**PHILIPPINE GENERAL HOSPITAL**  
The National University Hospital  
University of the Philippines Manila  
**OFFICE OF ENGINEERING AND TECHNICAL SERVICES**  
Taft Avenue, Manila  
*PHIC-Accredited Health Care Provider*  
*ISO 9001 2008 Certified*

**Project : PROPOSED PSYCHIATRIC WARD RESTROOMS RENOVATION**  
**Location : WARD 7, PGH COMPOUND, TAFT AVENUE, MANILA**  
**Subject : SUMMARY OF BILL OF MATERIALS AND COST ESTIMATE**

ITEM	DESCRIPTION	AMOUNT
I.	General Requirements	
II.	Demolition Works	
III.	Architectural/Finishing Works	
IV.	Plumbing Works	
V.	Electrical Works	
VI.	Construction and Health Safety Program	
	TOTAL DIRECT COST	P
	ADD: INDIRECT COST	
	OCM & Profit (____)	
	VAT (12%)	
	TOTAL INDIRECT COST	P
	TOTAL PROJECT COST	P

Prepared by:

\_\_\_\_\_  
Name and Signature of Authorized Representative

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Address and Contact Nos.



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**Location : WARD 7, PGH COMPOUND, TAFT AVENUE, MANILA**

**Subject : SUMMARY OF BILL OF MATERIALS AND COST ESTIMATE**

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT COST		TOTAL		ESTIMATED DIRECT COST
				Material	Labor	Material	Labor	
I.	<b>GENERAL REQUIREMENTS</b>							
	(Mobilization and demobilization, permits, staging of temporary facilities, utilities, protective covers/ fencing, billboard/signage, bonds, insurances, fees etc.)	1.00	lot					
	<b>Sub-total for General Requirements</b>							
II.	<b>EXCAVATION AND DEMOLITION WORKS</b>							
	<b>Excavation</b>							
	Excavation of 1.5m x 5m x 1.8m		cu.m.					
	<b>Demolition</b>							
1	Removal of floor tiles		sqm					
2	Chipping of floor slab (at side walk for septic tank)		sqm					
3	Chipping of floor slab (at entrance to ward restrooms)		sqm					
4	Removal of wall tiles		sqm					
5	Stripping of paint on walls, exposed beams, and exposed slab soffits		sqm					
6	Dismantling of existing restroom entrance doors	7.00	sets					
7	Dismantling of existing aluminum doors	11.00	sets					
8	Dismantling of existing doorway frames (for refurbishment)	2.00	sets					
9	Adjustment/enlargement of door openings (chipping of CHB walls)	1.00	lot					
10	Demolition of CHB partition		sqm					
11	Dismantling of fixed window pane (for replacement with awning)	1.00	lot					
12	Dismantling of existing restroom fixtures	36.00	units					
13	Dismantling of lighting fixtures	11.00	units					

14	Removal of ceiling boards	35.52	sqm					
15	Dismantling of granite counter tops	1.00	lot					
16	<b>RESTROOM 10</b>							
a	Removal of floor tiles		sqm					
b	Removal of wall tiles		sqm					
c	Stripping of paint on walls, exposed beams, and exposed slab soffits		sqm					
d	Dismantling of existing restroom fixtures	2.00	units					
e	Dismantling of lighting fixtures	1.00	unit					
f	Removal of ceiling boards		sqm					
g	Clearing, hauling, disposal of debris and cleaning	1.00	lot					
<b>Sub-total for Demolition and Excavation Works</b>								
III.	<b>ARCHITECTURAL WORKS</b>							
	<b>FLOORS</b>							
1	Dampproofing of restroom floors		sqm					
2	Water proofing of mezzanine restroom floors		sqm					
3	Construction of concrete slope from ward hallway to ward restroom entrance (20mm elevation change)		sqm					
a	Supply and installation of vinyl roll to match existing, with coved corners and edge beading, sealed		sqm					
	<b>WALLS / PARTITIONS</b>							
4	Construction of new CHB partitions		sqm					
5	Construction of fiber cement drywall on metal furrings		sqm					
a	Waterproofing, both sides		sqm					
6	Supply and installation of solid core phenolic board partitions with stainless steel brackets		sqm					
	<b>CEILINGS</b>							
7	Construction of (6mm thk) fiber cement board ceiling on metal furrings		sqm					
8	Construction of (6mm thk) fiber cement board ceiling on sturdy wooden framing		sqm					
	<b>DOORS</b>							
9	Refurbishment of existing flush doors - installation of wood laminate, attachment of accessories, and re-installation							
a	D1 - 670W x 2100H mm	4.00	sets					
b	D2 - 690W x 2100H mm	1.00	set					
c	D3 - 750W x 1950H mm	2.00	sets					
d	Stainless steel push plate and bar handle (at pull side)	6.00	sets					



e	Privacy bolt lock with indicator, stainless steel	6.00	sets					
f	Automatic door closer	6.00	sets					
10	Supply and installation of new flush door with wood laminate finish, complete with fittings and accessories							
a	D4 - 750W x 2100H mm	2.00	sets					
b	D5 - 920W x 2100H mm	2.00	sets					
c	Stainless steel push plate and bar handle (at pull side)	1.00	set					
d	Privacy bolt lock with indicator, stainless steel	1.00	set					
e	Automatic door closer	1.00	set					
f	For D-5 only: lockset, wall-mounted at entrance (to keep door open)	2.00	sets					
11	Supply and installation of solid core phenolic doors, complete with fittings and accessories							
a	D6 - 900W x 1790H mm	1.00	set					
b	D7 - 720W x 1790H mm	4.00	sets					
c	D8 - 720W x 1700H mm	6.00	sets					
d	Stainless steel cylinder knobs	11.00	sets					
e	Privacy bolt lock with indicator, stainless steel	11.00	sets					
	<b>WINDOWS</b>							
13	W1 - Supply and installation of tempered glass awning window panel (replacement for existing fixed panel), 520W x 440H mm	1.00	set					
14	Cleaning and repainting of all existing windows and window screens, including rag rack at Restroom 2-101, with proper rust removal, treatment and prevention	1.00	lot					
	<b>FINISHES</b>							
15	Supply and installation of 300x600mm non-skid floor tiles (samples for approval by end-users and architect consultant prior to purchase)							
a	TF-1		sqm					
b	TF-2 - For male restroom		sqm					
c	TF-3 - For female restroom		sqm					
16	Supply and installation of 300x600mm wall tiles (samples for approval by end-users and architect consultant prior to purchase)							
a	TW-1		sqm					
b	TW-2 - Male restroom base tile		sqm					
c	TW-3		sqm					

e	Privacy bolt lock with indicator, stainless steel	6.00	sets					
f	Automatic door closer	6.00	sets					
10	Supply and installation of new flush door with wood laminate finish, complete with fittings and accessories							
a	D4 - 750W x 2100H mm	2.00	sets					
b	D5 - 920W x 2100H mm	2.00	sets					
c	Stainless steel push plate and bar handle (at pull side)	1.00	set					
d	Privacy bolt lock with indicator, stainless steel	1.00	set					
e	Automatic door closer	1.00	set					
f	For D-5 only: lockset, wall-mounted at entrance (to keep door open)	2.00	sets					
11	Supply and installation of solid core phenolic doors, complete with fittings and accessories							
a	D6 - 900W x 1790H mm	1.00	set					
b	D7 - 720W x 1790H mm	4.00	sets					
c	D8 - 720W x 1700H mm	6.00	sets					
d	Stainless steel cylinder knobs	11.00	sets					
e	Privacy bolt lock with indicator, stainless steel	11.00	sets					
	<b>WINDOWS</b>							
13	W1 - Supply and installation of tempered glass awning window panel (replacement for existing fixed panel), 520W x 440H mm	1.00	set					
14	Cleaning and repainting of all existing windows and window screens, including rag rack at Restroom 2-101, with proper rust removal, treatment and prevention	1.00	lot					
	<b>FINISHES</b>							
15	Supply and installation of 300x600mm non-skid floor tiles (samples for approval by end-users and architect consultant prior to purchase)							
a	TF-1		sqm					
b	TF-2 - For male restroom		sqm					
c	TF-3 - For female restroom		sqm					
16	Supply and installation of 300x600mm wall tiles (samples for approval by end-users and architect consultant prior to purchase)							
a	TW-1		sqm					
b	TW-2 - Male restroom base tile		sqm					
c	TW-3		sqm					

d	TW-4 - Female restroom base tile		sqm					
e	TW-5		sqm					
17	Re-painting of restroom walls above tiles and exposed beams, with plaster and three (3) coats semi-gloss latex paint (colors for approval by end-users and architect consultant)							
a	PT-1 - For offices and Call Room Odor-less, anti-bacterial latex paint, (color for approval by end-users and architect consultant)		sqm					
b	PT-2 - For Male Restroom Odor-less, anti-bacterial latex paint, (color for approval by end-users and architect consultant)		sqm					
c	PT-3 - For Female Restroom Odor-less, anti-bacterial latex paint		sqm					
d	PT-4 - For wooden transom over ward restroom doorways: Odor-less, anti-bacterial latex paint		sqm					
e	PT-5 For ficem ceilings: Odor-less, anti-bacterial latex paint		sqm					
	<b>SPECIALTIES</b>							
18	Construction of 120mm thick RC counter with acrylic solid surface counter top at Male Restroom	1.00	lot					
19	Construction of 120mm thick RC counter with acrylic solid surface counter top at Female Restroom	1.00	lot					
20	Supply and installation of stainless steel bag hooks at office restrooms	7.00	sets					
21	Supply and installation of stainless steel vertical grab bar, 500mm length	4.00	sets					
22	Supply and installation of beveled mirrors on MR plywood backing							
a	At office restrooms, 450W x 900H mm	6.00	sets					
b	Supply and installation of beveled mirror on MR plywood backing, 800W x 1500H mm	2.00	sets					
c	Supply and installation of beveled mirror on MR plywood backing, 1650W x 800H mm	1.00	set					



d	Supply and installation of bevel-edged mirror on MR plywood backing, 1750W x 800H mm	1.00	set					
23	Supply and installation of security film for all mirrors		sqm					
24	Supply and installation of restroom signage (Male / Female)	2.00	sets					
25	<b>RESTROOM 10</b>							
A	<b>FLOORS</b>							
	Dampproofing of restroom floors		sqm					
B	<b>CEILINGS</b>							
	Construction of (6mm thk) fiber cement board ceiling on metal furrings		sqm					
C	<b>DOORS</b>							
c.1	Refurbishment of existing flush doors - installation of wood laminate, attachment of accessories, and re-installation							
c.2	D2 - 690W x 2100H mm	1.00	set					
c.3	Stainless steel push plate and bar handle (at pull side)	1.00	set					
c.4	Privacy bolt lock with indicator, stainless steel	1.00	set					
c.5	Automatic door closer	1.00	set					
D	<b>WINDOWS</b>							
d.1	Cleaning and repainting of existing window and window screens	1.00	lot					
d.2	Supply and installation of frosted window decals	1.00	lot					
E	<b>FINISHES</b>							
e.1	Supply and installation of 300x600mm non-skid floor tiles (samples for approval by end-users and architect consultant prior to purchase)							
	TF-1	1.66	sqm					
e.2	Supply and installation of 300x600mm wall tiles (samples for approval by end-users and architect consultant prior to purchase)							
	TW-1		sqm					
e.3	Re-painting of restroom walls above tiles and exposed beams, with plaster and three (3) coats semi-gloss latex paint (colors for approval by end-users and architect consultant)							

i	PT-1 - For offices and Call Room Odor-less, anti-bacterial latex paint, (color for approval by end-users and architect consultant)		sqm					
ii	PT-5 For ficem ceilings: Odor-less, anti-bacterial latex paint		sqm					
F	<b>SPECIALTIES</b>							
f.1	Supply and installation of stainless steel bag hooks at office restrooms	1.00	set					
f.2	Supply and installation of beveled mirrors on MR plywood backing							
i	At office restrooms, 450W x 900H mm	1.00	set					
ii	Supply and installation of security film for all mirrors		sqm					
	<b>Sub-total Architectural Works</b>							
IV.	<b>PLUMBING WORKS</b>							
1	Supply and installation of new water supply lines and accessories, including tapping to existing lines							
a	32 mm dia. PPR Pipe x 3m		lengths					
b	25 mm dia. PPR Pipe x 3m		lengths					
c	19 mm dia. PPR Pipe x 3m		lengths					
d	Gate Valve	10.00	units					
e	Fittings and accessories	1.00	lot					
f	Other Consumables	1.00	lot					
2	Supply and installation of new sanitary lines and accessories, including tapping to existing lines							
a	150 mm dia. uPVC SOIL PIPE x 3m		lengths					
b	100 mm dia. uPVC SOIL PIPE x 3m		lengths					
c	50 mm dia. uPVC VENT PIPE x 3m		lengths					
d	Floor drain (Stainless Steel 100mmx100mm) with strainer	27.00	sets					
e	Fittings and accessories	1.00	lot					
g	Other Consumables	1.00	lot					
	<b>Fixtures - Lavatories, Faucets, Showers and Hand Sprays</b>							
3	Pedestal lavatory	7.00	sets					
4	Rectangular under counter lavatory w/ EV pop-up, p-trap and bracket (540L x 365W x 200H mm)	4.00	sets					
5	Stainless steel single-lever lavatory faucet	7.00	sets					



6	Lavatory faucet with self-powered controller, sensor at tip of spout (flow rate: 2L/min)	4.00	sets					
7	Wall-mounted mop faucet	2.00	sets					
8	Shower head, mixer and faucet	7.00	sets					
9	Hand bidet/spray	13.00	sets					
<b>Fixtures - Water Closets and Urinals</b>								
11	Elongated, close coupled water closet with soft-closing seat and cover w/ metal hinges and slip-in connector; minimum water pressure: 0.05 Mpa-0.75Mpa; Rough-in 305mm	13.00	sets					
12	Wall-hung urinal with back inlet, complete with fittings and accessories (365L x 444H x 200D mm)	1.00	set					
13	Concealed urinal sensor (flush volume: 2.5-5L), battery operated (through back inlet) complete with fittings and accessories	1.00	set					
14	Water heater, instantaneous single-point	7.00	sets					
<b>RESTROOM 10</b>								
15	Supply and installation of new water supply lines and accessories, including tapping to existing lines							
a	32 mm dia. PPR Pipe x 3m		lengths					
b	25 mm dia. PPR Pipe x 3m		lengths					
c	20 mm dia. PPR Pipe x 3m		lengths					
d	25 mm Gate Valve	1.00	units					
e	25 mm Check Valve	1.00	units					
f	Fittings and accessories	1.00	lot					
g	Other Consumables	1.00	lot					
16	Supply and installation of new sanitary lines and accessories, including tapping to existing lines							
a	100 mm dia. uPVC SOIL PIPE x 3m		lengths					
b	50 mm dia. uPVC WASTE PIPE x 3m		lengths					
c	50 mm dia. uPVC VENT PIPE x 3m		lengths					
d	Floor drain (Stainless Steel 100mmx100mm) with strainer	1.00	set					
e	Fittings and accessories	1.00	lot					
f	Other Consumables	1.00	lot					

17	<b>Fixtures - Lavatories, Faucets, Showers and Hand Sprays</b>							
a	Pedestal lavatory	1.00	set					
b	Stainless steel single-lever lavatory faucet	1.00	set					
c	Hand bidet/spray	1.00	set					
18	<b>Fixtures - Water Closets and Urinals</b>							
a	Elongated, close coupled water closet with soft-closing seat and cover w/ metal hinges and slip-in connector; minimum water pressure: 0.05 Mpa-0.75Mpa; Rough-in 305mm	1.00	set					
19	<b>Septic Tanks</b>							
a	2-chamber tank - 150mm thk CHB w/ 10mm rebars at 600mm OC, BW; 150mm thk concrete slab cover w 10mm rebars at 100mm OC, BW	2.00	units					
b	Waterproofing	1.00	lot					
	-Other fittings to complete the system	1.00	lot					
	<b>Sub-total Plumbing Works</b>							
V.	<b>ELECTRICAL &amp; AUXILIARY WORKS</b>							
1	5 Watts, 220 volts ceiling mounted LED light in square white frame finish	8.00	units					
2	12 Watts, 220 volts, ceiling mounted LED light in square white frame finish	17.00	units					
3	12 Watts, 220 volts wall mounted LED light fixture metal base with secure acrylic diffuser	11.00	units					
4	Shower water heater, 3.5 KW, 230 Volts (model and brand for approval by end-user and OETS)	7.00	units					
5	One way lighting switch per OETS approved sample with plate cover	3.00	sets					
6	Two-One way lighting switch per OETS approved sample with plate cover	12.00	sets					
7	Three-One way lighting switch per OETS approved sample with plate cover	3.00	sets					
8	Utility box, PVC	18.00	pcs					
9	Junction box with cover, PVC	60.00	pcs					
10	No. 35 mm square THHN insulated stranded wires		boxes					
11	15 mm square diameter PVC conduit pipe including fittings		pcs					

12	Consumables (electrical tapes, screws, clamps, etc.)	1.00	lot					
13	Labor cost	1.00	lot					
	<b>Sub-total Electrical Works</b>							
VI.	<b>CONSTRUCTION SAFETY AND HEALTH PROGRAM</b>	1.00	lot					