



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 Certified*

PROJECT TITLE : PROPOSED PET CT SCANNER LABORATORY
LOCATION : Ground Floor, Central Block Building, PGH
SUBJECT : BILL OF MATERIALS AND COST ESTIMATE

ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
A. GENERAL REQUIREMENTS					
	Mobilization/Demobilization	1	lot		
	Construction Permit/Occupancy Permits/ Contractor's Tax/Bonds	1	lot		
	Temporary utilities	5	Mo.		
	Total General Requirements			P	
B. SITE WORKS					
	Demolition of CHB Wall	353.00	sq.m.		
	Concrete floor cutting and breaking	45.00	l.m.		
	Dismantling of ceiling	239.00	sq.m.		
	Dismantling of doors and cabinets	1	lot		
	Chipping of floor and wall tiles	14.62	sq.m.		
	Removal of vinyl tiles and chipping	67.16	sq.m.		
	Dismantling of plumbing fixture	1	lot		
	Dismantling of lighting fixture, pipes and wires and ducting	1	lot		
	Earthwork for main sewer line	15	lm		
	Hauling, clearing and disposal of debris	1	lot		
	Total Site Works			P	
C. CONCRETE AND MASONRY WORKS					
	Stiffener Columns, Lintel Beams and Slab on Fill				
	-Portland cement	116	bag		
	-Sand	8	cu.m.		
	-Gravel	14	cu.m.		
	-Reinforcing deformed rebars	1,472	kg.		
	-Ga.#16 tie wire	57	kg.		
	Forms				
	-Form Lumber	1,424	b.ft.		
	-1/4" thk. Plywood	17	pc.		
	-CWN	26	kg.		
	CHB Laying and Plastering				
	-100mm thk. CHB	4,382	pc.		
	-150mm thk. CHB	981	pc.		
	-Portland cement	471	bag		

-Sand	40	cu.m.		
-Reinforcing deformed rebars	407	kg.		
-Ga.#16 tie wire	16	kg.		
Lead Shielding (Poured Concrete)				
-Poured Concrete 3000 psi	23	cu.m.		
-Formworks	135	sq.m.		
-Reinforcing deformed rebars	10,847	kg.		
-Ga.#16 tie wire	136	kg.		
Material Cost				
Labor Cost				
Total Concrete and Masonry Works			P	

D. FINISHING WORKS

Ceiling Works

-6mm thk. Cement Board on metal furring	97.62	sq.m.		
-600mm x 600mm acoustic board on aluminum T-runner	125.86	sq.m.		

Wall Finishes

a. Lead Shielding (Wall and Doors)

-Lead Sheets 1.5mm for walls	258.33	sq.ft.		
-Lead Sheets 1.5mm for doors	441.32	sq.ft.		
-Cement Board on light steel studs	204.76	sq.m.		

b. Tile Work

-600mm x 600mm Ceramic Wall Tiles	183	pc.		
-Tile Adhesive	15	bag		
-Tile Grout	2	kg.		

c. Wall Protection

-150mm Width Hand Rail	14	lm		
-51mm x 51mm x 1.50mH Corner Guard	5	pc.		

Floor Finishes

-2mm thk. Homogeneous Vinyl Sheet	184	sq.m.		
-Levelling compound	165.00	sq.m.		
-Vinyl welding rod	4	roll		
-Cove Former/Rubber Filler	120	lm		
-Capping Seal	120	lm		
-2mm x 300mm x 300mm Vinyl Tiles	225	pc.		
-Vinyl adhesive	12	gal.		
-600mm x 600mm Ceramic Floor Tiles	214	pc.		
-Tile Adhesive	19	bag		
-Tile Grout	6	kg.		

Painting Works (Walls and Ceiling)

-Concrete Neutralizer	2	liter		
-Masonry Putty	3	gal.		
-Joint Compound and base	2	set		
-Polyester body filler with hardener	1	gal.		
-Flat wall enamel	10	gal.		
-Flat Latex Paint	30	gal.		
-Semi Gloss Latex paint	98	gal.		
-Paint thinner	10	gal.		
-Paint brush	10	pc.		
-Roller brush with handle	10	pc.		
-Sanding paper	40	pc.		
-Stopa rug	15	kg.		
-Masking tape	10	roll		

Restoration Works at Adjacent Room
Material Cost
Labor Cost
Total Finishing Works

1 lot

P

E. DOORS AND WINDOWS

a. Doors, Door Jambs and Guide Rail Box

-D1: HCFD 1.00m x 2.10m, Sliding, 2-Panels	2 set
-D2: HCFD, 1.00m x 2.10m, Swing, 2-Panels	1 set
-D2a: HCFD, 1.00m x 2.10m, Swing, 2-Panels	1 set
-D3: HCFD, 1.80m x 2.10m, Sliding	4 set
-D4: HCFD, 1.20m x 2.10m, Sliding	1 set
-D5: Panel Door, 090m x 2.10m on 2"x6" KD Jamb	1 set
-D6: HCFD, 0.90m x 2.10m, Sliding	1 set
-D7a: HCFD, 0.80m x 2.10m, Sliding	3 set
-D7: HCFD, 0.80m x 2.10m, Sliding	1 set
-D8: HCFD, 0.70m x 2.10m, on 2"x4" KD Jamb	1 set
-D9: HCFD, 1.000m x 2.10m, on 2"x4" KD Jamb	1 set

b. Hardware

-3.80m Running Track, Floor Rail Guide, and accessories	4 set
-4.0m Running Track and Accessories	2 set
-2.40m Running Track, Floor Rail Guide, and accessories	1 set
-1.80m Running Track and Accessories	1 set
-1.60m Running Track and Accessories	4 set
-Lever Type Lockset	4 set
-C-Type Handle with Plate	36 pc.
-Dead Lockset	1 set
-Chain Bolt	4 pc.
-Foor Bolt	2 pc.
-3-1/2" x 3-1/2" Butt Hinge	8 pair
-Floor Hinge & Overhead Concealed Door Closer	4 set
-Door Closer	1 set

c. Windows

-W1, Leaded Glass on aluminum frame	1 pc.
-W2, Counter	1 pc.

Material Cost

Labor Cost

Total Doors and Windows

P

F. COUNTER AND CABINET

-Reception Counter (C4: L-1.80m)	1.00 lot
-Reading Table (C3: L-3.70m)	1.00 lot
-Hot Laboratory Counter (C1: L-3.80) and Hanging Cabinet	1.00 lot
-Records Cabinet (RC 1)	1.00 lot
-Records Cabinet (RC 2)	1.00 lot
-Control Room Counter (L-3.50m)	1.00 lot
-Pantry Counter (C2: L-2.00m)	1.00 lot

Total Counter and Cabinet

P

G. PLUMBING WORKS

Plumbing Fixture

-Flush Valve Type Water Closet complete w/ fittings	3 set		
-Lavatory, Semi-Pedestal complete with fittings	3 set		
-Urinal complete with fittings	2 set		
-Kitchen Sink with side drain complete with fittings	1 set		
-Gooseneck Type, Faucet	1 set		
-LavatoryFaucet	3 set		
-Shower Head and Knob	1 set		
-Soap Holder	1 pc.		
-Paper Holder	3 pc.		
-Stainless Steel Grab Bar	1 pc.		
-Plain Bibb Faucet, chrome	3 pc.		
-Bedit	3 pc.		
-100mm x 100mm Brass Floor Drain	3 pc.		

Sewer Line - "Orange" Polyvinyl Chloride (PVC)

Pipes and Fittings

-100mm dia. x 3.0m pipe	9 pc.		
-75mm dia. x 3.0m pipe	4 pc.		
-50mm dia. x 3.00m pipe	2 pc.		
-100mm dia. Wye	7 pc.		
-75mm dia. Wye	1 pc.		
-100mm x 75mm dia. Wye	4 pc.		
-100mm x 50mm dia. Wye	2 pc.		
-100mm dia. Elbow	10 pc.		
-75mm dia. Elbow	7 pc.		
-50mm dia. Elbow	5 pc.		
-100mm dia. Clean Out with Brass Plug	3 pc.		
-75mm dia. Clean Out with Brass Plug	1 pc.		
-75mm dia. P-Trap	3 pc.		
-Other fittings	1 lot		
-Solvent Cement	4 liter		
-Epoxy A & B	2 gal.		

Ventilation Line - PVC

-50mm dia. pipe	8 pc.		
-50mm dia. fittings	1 lot		
-PVC Solvent Cement, 100cc	1 liter		

Water Line - Polypropylene Random (PPR),

Pipes and Fittings, PN 20

-40mm dia. x 4m pipe	1 pc.		
-32mm dia. x 4m pipe	9 pc.		
-25mm dia. x 4m pipe	9 pc.		
-20mm dia. x 4m pipe	4 pc.		
-32mm dia. Elbow	8 pc.		
-25mm dia. Elbow	6 pc.		
-20mm dia. Elbow	4 pc.		
-20mm dia. Tee	7 pc.		
-25mm x 20mm Elbow Reducer	3 pc.		
-25mm x 20mm Tee Reducer	6 pc.		
-32mm x 20mm Elbow Reducer	2 pc.		
-32mm x 25mm Tee Reducer	2 pc.		
-40mm x 32mm Tee Reducer	1 pc.		
-32mm dia. Gate Valve	1 pc.		
-25mm dia. Gate Valve	3 pc.		

-20mm dia. Gate Valve	3 pc.		
-Other fittings	1 lot		
-Plastic clip	1 lot		
Material Cost			
Labor Cost			
Total Plumbing Works	P		

H ELECTRICAL WORKS

-15W, 220V, Daylight LED Bulbs in Pinlight recessed mounted fixture	48 set		
-9W, 220V., Dimmable Daylight LED Bulbs recessed mounted fixture	25 set		
-Warning Light, Red color	5 set		
-Reflectorized Exit Light/Sign	2 unit		
-Duplex Outlet with ground including plate cover	54 pc.		
-One-way lighting switch with plate cover	9 set		
-Two-One way lighting switch with plate cover	6 set		
-Three-One way lighting switch with plate cover	4 set		
-Two-Three way lighting switch with plate cover	2 set		
-Dimmer Switch, 1000 Watts, 230 Volts	5 set		
-Telephone terminal outlet with plate cover	3 set		
-3/gage 22 Telephone jacketed wire	1 spool		
-Telephone erminal outlet	3 set		
-Utility box, PVC	79 pc.		
-Junction box with cover, PVC	120 pc.		
-3.5mm square THHN insulated stranded wires	20 boxes		
-5.5 mm square THHN insulated stranded wires	4 boxes		
-14mm square THHN insulated stranded wires	390 meter		
-50mm square THHN insulated stranded wires	420 meter		
-100mm square THHN insulated wires	375 meter		
-15mm diameter PVC pipe including fittings	200 pc.		
-25mm (1 inch) diameter PVC pipe	35 pc.		
-40mm (1-1/2 inch) diameter PVC pipes	35 pc.		
-50mm (2 inches) diameter PVC pipes	35 pc.		
-25mm (1 inch) diameter PVC long elbow	8 pc.		
-40mm (1-1/2 inch) diameter PVC long elbow	8 pc.		
-50mm (2 inches) diameter PVC long elbow pipes	8 pc.		
-25mm (1 inch) diameter PVC coupling	15 pc.		
-40mm (1-1/2 inch) diameter PVC coupling	15 pc.		
-50mm (2 inches) diameter PVC coupling	15 pc.		
-3Pole, 100Amperes, 600 Volts Industrial-type MCCB with enclosure	1 unit		
-3Pole, 150Amperes, 600 Volts Industrial-type MCCB with enclosure	1 unit		
-3Pole, 200 Amperes, 600 Volts Industrial-type MCCB with enclosure	2 unit		
-1.5 meter length Copper Coated Grounding rod with connector	1 pc.		
-Panelboard marked LP/PP and ACU as per Schedule of Load	2 assym.		
-Consummables (Elect. tapes, screws, clamps,etc)	1 lot		
Material Cost			
Labor Cost			
Total Electrical Works	P		

I. MECHANICAL WORKS

Airconditioning System

- 3.0TR, 220V, Single Phase, 60Hz, "Inverter",
Wall Mounted
- 2.5HP, 220V, Single Phase, 60Hz, "Inverter",
Ceiling Mounted
- Installation Cost incldg. Copper Tubings, Drain
Pipes, Moisture Insulation & Steel Flat Forms
- Sub-total

2 unit

13 unit

1 lot

P

Ventillation System

- Ceiling mounted, ducted-type ventilating/exhaust
fan, 220V, 1PH, 60Hz, 24W, 190CMH, 35dB
240mm x 240mm with shutter
- Ceiling mounted, ducted-type ventilating/exhaust
fan, 220V, 1PH, 60Hz, 19W, 170 CMH, 33dB,
240mm x 240mm with shutter
- Ceiling mounted, ducted-type ventilating/exhaust
fan, 220V, 1PH, 60Hz, 11W, 85 CMH, 28dB,
117mm x 117mm with shutter
- PVC Pipe, 150mm Ø, x 10 ft. long, black
- PVC Pipe, 100mm Ø, x 10 ft. long, black
- PVC Coupling, 150mm Ø, black
- PVC Coupling, 100mm Ø, black
- PVC reducer duct elbow, 150mm Ø x 100 mm Ø
- PVC duct elbow, 100mm Ø, black
- PVC Cement, 400cc.
- Mild steel Angle bar, 1inch x 2.5mm thick x 20ft
- Full thread rod, 1/4 inch Ø x 10 ft. long
- Full thread grip achor, 1/4 inch Ø
- Stainless steel air vent cover with grill, 100mm dia.

5 unit

1 unit

3 unit

5 pc.

11 pc.

4 pc.

10 pc.

3 pc.

9 pc.

1 can

1 pc.

36 pc.

50 pc.

1 pc.

Material Cost

Labor Cost

Sub-total

P

Medical Gas System

- Oxygen outlet (O2), DISS connection, flush type,
with primary and secondary elf sealing valve
- Medical vacuum (VAC), DISS connection, flush-
type, with primary and secondary self sealing
valve including suction bottle slide holder
- Isolation shut off valve, 5/8" dia. Full port, brass
body, lever type.
- Suction regulator, DISS connection with quick
switch mode (Reg., Off , Full), gauge: clear
clear analog display in 2-1/2" pressure gauge,
0-760mm hg with flexible transparent silicon
tube hose, reusable suction bottle, 2000cc,
safety traps, plastic holder & overflow protection
- Medical oxygen flowmeter, DISS connection,
brass body, chrome plated, working/calibrated
pressure: 50psi, flow rate: 0-15LPM complete
with humidifier bottle

2 set

2 set

4 set

2 set

2 set

-Copper pipe, 5/8" diameter X 20', Type K/L,
 Hardrawn, seamless
 -PVC pipe, 3/4" diameter x 10feet
 -Welding electrode, 3/32" diameter, MS
 -Consumables, (rugs, sandries, brush, paint, silver
 rod, etc.)

2 pc

2 pc

5 kg.

1 lot

Material Cost

Labor Cost

Sub-total

Total Mechanical Works

P



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SUBJECT : Summary of BILL OF MATERIALS AND COST ESTIMATE

ITEM	WORK DESCRIPTION	AMOUNT
A.	GENERAL REQUIREMENTS	
B.	SITE WORKS	
C.	CONCRETE AND MASONRY WORKS	
D.	FINISHING WORKS	
E.	DOORS AND WINDOWS	
F.	COUNTER AND CABINET	
G.	PLUMBING WORKS	
H.	ELECTRICAL WORKS	
I.	MECHANICAL WORKS	
	TOTAL DIRECT COST	P
	ADD: INDIRECT COST	
	Contractor's OCM & Profit (____%)	
	VAT (12%)	
	TOTAL INDIRECT COST	P
	TOTAL PROJECT COST	P

Prepared by:

Name and Signature of Authorized Representative

Name of Company

Address