



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

PROJECT TITLE : PROPOSED RENOVATION OF PGH NURSES' HOME
LOCATION : PGH COMPLEX, TAFT AVENUE, ERMITA, BRGY 670, MANILA
CITY
SUBJECT : BILL OF MATERIALS AND COST ESTIMATE SUMMARY

ITEM	Work Description	Amount (PHP)
	DIRECT COST	
1	GENERAL REQUIREMENTS	
2	ARCHITECTURAL WORKS	
3	ELECTRICAL WORKS	
4	PLUMBING WORKS	
	<i>TOTAL DIRECT COST</i>	
	INDIRECT COST	
1	CONTRACTOR'S OCM & PROFIT	
2	VALUE ADDED TAX (12%)	
	<i>TOTAL INDIRECT COST</i>	
	TOTAL ESTIMATED PROJECT COST	

Prepared by:

Name and Signature of Authorized Representative

Name of Company

Address

4.0 ANNEX 4: BILL OF QUANTITIES



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ISO 9001:2008 Certified*

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ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
A. GENERAL REQUIREMENTS					
	Mobilization/Demobilization	1	lot		
	Government Permits	1	lot		
	Bonds and Insurances	1	lot		
	Project Management	1	lot		
	Construction Occupational Health and Safety	1	lot		
	Hauling & Delivery	1	lot		
	Shop Drawings and As-Built Drawings	1	lot		
	Tools & Equipment	1	lot		
	Sub-total			P	
B. ARCHITECTURAL WORKS					
DEMOLITION WORKS					
	Taft Wing - T&B additional ceilings, concrete/cement infill on old fenestrations, and others	1.00	lot		
	North Wing - T&B additional ceilings, mezzanine areas, and others	1.00	lot		
ROOF REPAIR					
	Repair and replacement of deteriorated truss members	269.70	lgs		
	Repair and rectification of valley gutter design between the Taft and North wing - rectified truss sytem and removal and replacement of metal sheets	350.00	sqm		
	Repair and replacement of damaged metal sheets - prepainted corrugated metal sheets	1,402	sqm		
	Repair and replacement of fascia boards	212.55	lm.		
	Installation of insulating material	692.00	sq.m.		
MASONRY WORKS					
	Installation of new white floor tiles in expanded T&B at the end of North Wing - tile, grouting, and adhesive	91.26	sqm		
	New walls in expanded T&Bs - RC partition	50.61	sqm		
	New walls in expanded T&Bs - white wall tiles	200.61	sqm		

Read and accepted as part of the Contract

Bidder/Contractor

Rehabilitation of tilework & partitions in existing T&Bs and laundry areas - new white floor tiles, grouting, and adhesive	365.24 sqm		
Rehabilitation of tilework & partitions in existing T&Bs and laundry areas - new white wall tiles, cleaning, re-grouting, and replacement	1,133 sqm		
Repair of cracks - exterior, ornamentations, etc.	1 lot		
Repair on floors and walls in the interior of the building	1 lot		
PAINTING WORKS			
Interior walls - old paint removal, sanding, patching, surface preparation, and painting	8366.8 sqm		
Interior ceiling - old paint removal, sanding, patching, surface preparation, and painting	2712.3 sqm		
Exterior painting - old paint removal, sanding, patching, surface preparation, and painting	3120 sqm		
Sundries (consumable materials and equipment at 5% of selected items)	1 lot		
Material Cost			
Labor Cost			
Sub-total		P	

C. ELECTRICAL WORKS

UPGRADE OF ELECTRICAL LINES

Taft Wing - roughing ins

PIPES AND CONDUITS

15mmØ IMC	463.00 lgs		
32mmØ IMC	20.00 lgs		
65mmØ IMC	20.00 lgs		
15mmØ IMC coupling	463.00 pcs		
32mmØ IMC coupling	20.00 pcs		
65mmØ IMC coupling	20.00 pcs		
15mmØ Metal flexible conduit	210.00 lm.		

BOXES AND WIREWAYS

Gauge 16 utility box 80x50x60	32.00 pcs		
Gauge 16 100x40 octagonal box with cover	117.00 pcs		

HANGERS AND SUPPORTS

GI 3/8" full threaded rod 1M plus turnbuckle	234.00 lgs		
Anchor grip and nut	234.00 pcs		
Unistrut C-channel	8.00 lgs		
15mm Unistrut clamp	16.00 pcs		
Fitting and accessories	1.00 lot		

Taft Wing - wiring devices

LIGHT SWITCHES & OUTLETS

One-gang	16.00 sets		
Two-gang	7.00 sets		
Three-gang	3.00 sets		
Universal convenience outlet (duplex)	32.00 sets		

WIRES AND CABLES

2.0sqmm THHN	7.00 rolls		
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Bidder/Contractor

3.5sqmm THHN	23.00	rolls		
5.5sqmm THHN	1.00	rolls		
8.0sqmm THHN	60.00	lm.		
22sqmm THHN	178.00	lm.		
30sqmm THHN	58.00	lm.		
125sqmm THHN	172.00	lm.		
PANELBOARDS AND ECSB				
MDP	1.00	assy		
LP-F	1.00	assy		
PP-G	1.00	assy		
LP-2F	1.00	assy		
PP-2F	1.00	assy		
LP-3F	1.00	assy		
PP-3F	1.00	assy		
NORTH WING - roughing ins				
PIPES AND CONDUITS				
15mmØ IMC	967.00	lgs		
15mmØ IMC coupling	967.00	pcs		
15mmØ Metal flexible conduit	286.20	lm.		
15mmØ Straight connectors	318.00	pcs		
BOXES AND WIREWAYS				
Gauge 16 utility box 80x50x60	128.00	pcs		
Gauge 16 100x40 octagonal box with cover	159.00	pcs		
HANGERS AND SUPPORTS				
GI 3/8" full threaded rod 1M plus turnbuckle	143.00	lgs		
Anchor grip and nut	143.00	pcs		
Unistrut C-channel	29.00	lgs		
15mm Unistrut clamp	290.00	pcs		
Fitting and accessories	1.00	lot		
NORTH WING - wiring devices				
LIGHT SWITCHES & OUTLETS				
One-gang	17.00	sets		
Two-gang	11.00	sets		
Three-gang	2.00	sets		
Universal convenience outlet (duplex)	120.00	sets		
GFCI or heavy duty (duplex)	8.00	sets		
WIRES AND CABLES				
2.0sqmm THHN	8.00	rolls		
3.5sqmm THHN	51.00	rolls		
5.5sqmm THHN	1.00	rolls		
Sundries(consumable materials & equipment at 5%)	1	lot		
Material Cost				
Labor Cost				
Sub-total			P	

D. PLUMBING WORKS

TAFT WING

Cold Water roughing-ins (cost as PN 20 PPR)

13mmØ (cost as 20mm PPR) 42.00 pcs

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Bidder/Contractor

19mmØ (cost as 20mm PPR)	41.00	pcs		
25mmØ	16.00	pcs		
32mmØ	6.00	pcs		
40mmØ	7.00	pcs		
80mmØ (cost as 20mm PPR)	9.00	pcs		
Fitting and accessories				
13mmØ elbow (cost as 20mm PPR)	36.00	pcs		
19mmØ elbow (cost as 20mm PPR)	25.00	pcs		
25mmØ elbow	2.00	pcs		
32mmØ elbow	1.00	pcs		
40mmØ elbow	2.00	pcs		
19mm x 19mmØ Tee (cost as 20mm PPR)	16.00	pcs		
25mm x 25mmØ Tee	13.00	pcs		
32mm x 32mmØ Tee	1.00	pcs		
25mm x 13mm, 25mm x 19mm dia. tee (cost as 25mm x 20mm PPR)	13.00	pcs		
19mm x 13mm dia. Coupling reducer (cost as 20mm PPR)	20.00	pcs		
25mm x 19mm dia. Coupling reducer (cost as 25mm x 20mm PPR)	10.00	pcs		
32mm x 25mm dia. Coupling reducer	3.00	pcs		
13mm gate valve (cost as 20mm PPR)	1.00	pcs		
25mm gate valve	7.00	pcs		
32mm gate valve	2.00	pcs		
80mm gate valve (cost as 90mm PPR)	8.00	pcs		
Sanitary Line roughing-ins				
Poly Vinyl Chloride Pipes (PVC) x 3m length				
S1000				
200mmØ and couplings	7.00	pcs		
150mmØ and couplings	22.00	pcs		
100mmØ and couplings	127.00	pcs		
75mmØ and couplings	11.00	pcs		
50mmØ and couplings	190.00	pcs		
Poly Vinyl Chloride Fittings (PVC)				
200mm x 200mm Ø elbow	1.00	pcs		
150mm x 150mm Ø elbow	1.00	pcs		
100mm x 100mm Ø elbow	166.00	pcs		
50mm x 50mm Ø elbow	66.00	pcs		
100mm x 100mm Ø wye	75.00	pcs		
200mm x 150mm Ø wye	1.00	pcs		
200mm x 100mm Ø wye (cost as wye + coupling reducer)	1.00	pcs		
150mm x 100mm Ø wye	12.00	pcs		
100mm x 50mm Ø wye	64.00	pcs		
200mm Ø floor clean out plug	1.00	pcs		
150mm Ø floor clean out plug	1.00	pcs		
100mm Ø floor clean out plug	15.00	pcs		
50mm x 50mm Ø Tee	64.00	pcs		
75mm x 50mm Ø Tee	2.00	pcs		
100mm Ø P-Trap	68.00	pcs		
Fitting and accessories				

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Bidder/Contractor

Water meter	1.00	pcs		
Floor drain	50.00	pcs		
NORTH WING				
Cold Water roughing-ins (cost as PN 20 PPR)				
13mmØ (cost as 20mm PPR)	11.00	pcs		
19mmØ (cost as 20mm PPR)	31.00	pcs		
25mmØ	10.00	pcs		
32mmØ	6.00	pcs		
40mmØ	8.00	pcs		
Fitting and accessories				
13mmØ elbow (cost as 20mm PPR)	14.00	pcs		
19mmØ elbow (cost as 20mm PPR)	27.00	pcs		
25mmØ elbow	3.00	pcs		
40mmØ elbow	4.00	pcs		
13mm x 13mmØ Tee (cost as 20mm PPR)	4.00	pcs		
19mm x 19mmØ Tee (cost as 20mm PPR)	15.00	pcs		
32mm x 32mmØ Tee	4.00	pcs		
40mm x 40mmØ Tee	9.00	pcs		
25mm x 13mm, 25mm x 19mm dia. tee (cost as 25mm x 20mm PPR)	12.00	pcs		
32mm x 13mm dia. tee (cost as 32mm x 20mm PPR)	22.00	pcs		
19mm x 13mm dia. Coupling reducer (cost as 20mm PPR)	21.00	pcs		
25mm x 19mm dia. Coupling reducer (cost as 25mm x 20mm PPR)	5.00	pcs		
32mm x 25mm dia. Coupling reducer	3.00	pcs		
40mm x 13mm, 40mm x 19mm dia. Coupling reducer (cost as 40mm x 20mm PPR)	2.00	pcs		
19mm gate valve	4.00	pcs		
25mm gate valve	1.00	pcs		
40mm gate valve	3.00	pcs		
Sanitary Line roughing-ins				
Poly Vinyl Chloride Pipes (PVC) x 3m length S1000				
150mmØ and couplings	30.00	pcs		
100mmØ and couplings	63.00	pcs		
75mmØ and couplings	32.00	pcs		
50mmØ and couplings	216.00	pcs		
Poly Vinyl Chloride Fittings (PVC)				
150mm x 150mm Ø elbow	9.00	pcs		
100mm x 100mm Ø elbow	208.00	pcs		
75mm x 75mm Ø elbow	5.00	pcs		
50mm x 50mm Ø elbow	86.00	pcs		
150mm x 150mm Ø wye	9.00	pcs		
100mm x 100mm Ø wye	15.00	pcs		
150mm x 100mm Ø wye	71.00	pcs		
150mm x 100mm Ø wye (cost as wye + coupling reducer)	1.00	pcs		
100mm x 75mm Ø wye	4.00	pcs		
100mm x 50mm Ø wye	36.00	pcs		
75mm x 75mm Ø wye	16.00	pcs		

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Bidder/Contractor

150mm Ø floor clean out plug	9.00	pcs		
100mm Ø floor clean out plug	7.00	pcs		
75mm Ø floor clean out plug	5.00	pcs		
50mm x 50mm Ø Tee	36.00	pcs		
75mm x 50mm Ø Tee	50.00	pcs		
100mm Ø P-Trap	85.00	pcs		
Fitting and accessories				
Water meter	1.00	pcs		
Floor drain	46.00	pcs		
HANGERS AND SUPPORTS				
GI 3/8" full threaded rod 1M + turnbuckle	287.00	lgs		
Nut	574.00	pcs		
2x2x1/4 Angle bar	78.00	lgs		
REHABILITATION OF EXISTING T&BS				
Water closet	37.00	sets		
Urinal	7.00	sets		
Lavatory with faucet	24.00	sets		
Sink (Laundry)	17.00	sets		
Slop sink	2.00	sets		
Shower set	33.00	sets		
EXPANDED T&Bs AT THE END OF NORTH WING				
Water closet	6.00	sets		
Lavatory with faucet	17.00	sets		
Shower set	6.00	sets		
IMPROVEMENT OF DRAIN LINES AND CATCH BASINS				
PVC drain system	200.00	lm.		
Catch basins	4.00	units		
NEW SEPTIC TANK				
3-chamber concrete tank HxWxL 2.0m x 3.8m x 6.5m	1.00	unit		
Sundries(consumable materials & equipment at 5%)	1	lot		
Material Cost				
Labor Cost				
Sub-total			P	

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