



# 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 9001:2015 Certified

**PROJECT : RENOVATION OF NICU**

**LOCATION : 4th Floor, Central Block Building, PGH**

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

ITEM NO.	DESCRIPTION	AMOUNT
1.	GENERAL REQUIREMENTS	
2.	DEMOLITION WORKS	
3.	CIVIL WORKS AND ARCHITECTURAL WORKS	
4.	MECHANICAL WORKS	
5.	ELECTRICAL AND AUXILIARY WORKS	
6.	SANITARY AND PLUMBING WORKS	
7.	FIRE PROTECTION WORKS	
8.	MEDICAL GAS SYSTEM	

**TOTAL DIRECT COST**

Add: INDIRECT COST

Contractor OCM and Profit

VAT (12%)

**TOTAL INDIRECT COST**

**TOTAL PROJECT COST**

Prepared by:

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

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

\_\_\_\_\_  
Address and Contact Number



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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
1.	<b>GENERAL REQUIREMENTS</b>				
	Mobilization	1.00	lot		
	Demobilization	1.00	lot		
	Bonds and Insurances	1.00	lot		
	Temporary Facilities	1.00	lot		
	Health and Safety	1.00	lot		
	<b>Sub-Total General Requirements &gt;&gt;</b>				
2.	<b>DEMOLITION WORKS</b>				
	Demolition of existing structures		m2		
	Removal of existing floor finishes		m2		
	Removal of existing ceiling finishes		m2		
	Removal of existing doors				
	Single Leaf Doors		nos.		
	Double Leaf Doors		nos.		
	Removal of existing plumbing fixtures and pipes	1.00	lot		
	Removal of existing MEPF embeds	1.00	lot		
	Removal of existing Electrical fixture, pipes and wiring	1.00	lot		
	Removal of existing counters and cabinets	1.00	lot		
	Hauling and Disposal	1.00	lot		
	<b>Sub-Total Demolition Works &gt;&gt;</b>				
3.	<b>CIVIL WORKS AND ARCHITECTURAL WORKS</b>				
	<b>Masonry Works</b>				
	Concrete Hollow Blocks Load Bearing				
	6" thick CHB Load Bearing (700 psi)		m2		
	Plain Cement Plastering Works				
	Interior Masonry Walls		m2		
	Miscellaneous Concreting Work				
	Wall Lintels		m		
	Wall Stiffeners		m		
	Zocalo		m		
	Concrete Topping with levelling compound		m2		



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
	Interior Finishes				
	Floor Finishes				
	2.0mm thk sheet Vinyl Anti-static; Anti-bacterial, F2		m2		
	2.0mm thk sheet Vinyl Standard; Anti-bacterial, F3		m2		
	300x300x6mm Homogeneous anti-skid floor tiles, F9		m2		
	100mm high coved sheet vinyl with anti-static baseboard and end-cap, F2/B3		m		
	100mm high coved sheet vinyl with anti-static baseboard and end-cap, F3/B3		m		
	Polyurethane-based epoxy floor coating, F14		m2		
	Vinyl Adhesive		gals.		
	Ceiling Finishes				
	12mm thk Moisture Resistant Gypsum Board Flat Latex Paint, C2		m2		
	12mm thk Moisture Resistant Gypsum Board with Anti-bac Level 1, C3		m2		
	12mm thk Moisture Resistant Gypsum Board with Anti-bac Level 2, C4		m2		
	Painted exposed underside of slab, semi-gloss acrylic latex finish, C10		m2		
	Ceiling Cove		m		
	Wall Finishes				
	300x300x6mm Homogeneous Polished Wall Tiles, W6		m2		
	High Impact Gypsum Board		m2		
	Doors, Windows & Hardware				
	Wooden Doors in HPL Finish				
	WD1-60, 600mmW x 2400mmH with 300mm x 200mm louver	3.00	set/s		
	WD1-80, 800mmW x 2400mmH iwith 300mm x 200mm louver	3.00	set/s		
	WD2-80, 800mmW x 2400mmH iwith 300mm x 200mm louver	3.00	set/s		
	WD3-80, 800mmW x 2400mmH	3.00	set/s		
	WD3-100, 1000mmW x 2400mmH	2.00	set/s		
	WD7-80, 800mmW x 2400mmH i	1.00	set/s		
	WD7-100, 1000mmW x 2400mmH	4.00	set/s		
	WG1-100, 1000mmW x 2400mmH iwith 150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	1.00	set/s		
	WG2-70, 700mmW x 2400mmH iwith 150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	1.00	set/s		
	WG2-80, 800mmW x 2400mmH iwith 150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	1.00	set/s		
	WG2-90, 900mmW x 2400mmH with 150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	1.00	set/s		
	WG2-100, 1000mmW x 2400mmH iwith 150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	2.00	set/s		
	WG14-80/80, 2-800mmW x 2400mmH w/ 2-150mm x	1.00	set/s		



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
	750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead				
	WG16-90/90, 2-900mmW x 2400mmH with 2-150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	2.00	set/s		
	WG17-90/90, 2-900mmW x 2400mmH with 2-150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	2.00	set/s		
	WG19-90/40, 1-900mmW, 1-400mm x 2400mmH w/ 1-150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	5.00	set/s		
	Metal Doors				
	MG4-100, 1000mmW x 2400mmH Stainless Steel Door with 1-x150mm x 750mm Vision Panel, 6mm thk tempered clear glass on anodized glazing bead	2.00	set/s		
	Metal Jambs				
	600mmW x 2400mmH	3.00	nos.		
	700mmW x 2400mmH	1.00	nos.		
	800mmW x 2400mmH	11.00	nos.		
	900mmW x 2400mmH	1.00	nos.		
	1000mmW x 2400mmH	9.00	nos.		
	1300mmW x 2400mmH	5.00	nos.		
	1600mmW x 2400mmH	1.00	nos.		
	1800mmW x 2400mmH	4.00	nos.		
	1000mmW x 2400mmH; Stainless Steel	2.00	nos.		
	Aluminum Glass Doors, 10mm thk., Tempered Clear				
	Glass Stile Aluminum Powder Coated Frames				
	AL3-100, 1000mmW x 2400mmH	1.00	set/s		
	AL7-80, 800mmW x 2400mmH, Manual Sliding Door	1.00	set/s		
	Aluminum Framed Fixed Windows, 6mm thk. Tempered				
	Glass on Powder Coated Aluminum Framing				
	NI-01, 3575mmW x 1800mmH	2.00	set/s		
	NI-02, 2400mmW x 2700mmH	1.00	set/s		
	Door Hardware				
	Hinges.				
	4.50x4.50 Stainless Steel Heavy weight ball bearing hinges	135.00	nos.		
	Heavy duty concealed floor Hinge for double acting doors	2.00	nos.		
	Lockset				
	Entrance-Institutional grade lever type bored lockset	18.00	nos.		
	Entrance Function: Institutional Grade Lever Type	5.00	nos.		
	Bored Lockset with Return + Dummy Lockset				
	Bathroom/Privacy-Institutional grade lever type	6.00	nos.		
	Bored lockset with Return				
	Deadbolt TT inside - Institutional grade deadbolt	3.00	nos.		
	Storeroom Function: Institutional Grade Lever Type	5.00	nos.		
	Bored Lockset with Return				



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
	Door Closer				
	Heavy Duty Surface Type Door Closer, 90° Swing	7.00	nos.		
	Push Plate, Stainless Steel, T-304, Hairline Finish				
	100 x 400mm S/S, Gauge #16	3.00	nos.		
	Threshold				
	25mm x 12mm high stainless steel angle threshold	3.00	nos.		
	Door Silencer	105.00	nos.		
	Painting Works				
	At Walls				
	Semi-gloss acrylic latex paint, W2		m2		
	Anti-bacterial paint semi-gloss finish, Level 1, W3		m2		
	Anti-bacterial paint semi-gloss finish, Level 2, W4		m2		
	At Ceiling				
	Anti-bacterial paint semi-gloss finish (Level 1)		m2		
	Anti-bacterial paint semi-gloss finish (Level 2)		m2		
	Semi-gloss acrylic latex paint (Ceiling Boards)		m2		
	Semi-gloss acrylic latex paint (Concrete Ceiling)		m2		
	Doors and Jambs				
	At Door Panels		m2		
	At Door Jambs		m		
	Waterproofing Works				
	At Toilets (Torch Membrane Applied Waterproofing)		m2		
	Specialty Works				
	Wall Hardware				
	Crash Rail/Bumper Guard		m		
	Rub Strip		m		
	Corner Guard		nos.		
	Jamb Guard		nos.		
	Door Support, C-channel BI 3" x 1 1/2" x 5" x 6m		nos.		
	Bedhead Panel		m		
	Medical Curtain Tracks		m		
	Caseworks				
	Nurses Station, Overhead/Hanging Cabinet, Counters w/				
	Under Counter Cabinet/Drawers, complete with Hardware		lot		
	<b>Sub-Total Material Cost &gt;&gt;</b>				
	<b>Sub-Total Labor Cost &gt;&gt;</b>				
	<b>Sub-Total Architectural Works &gt;&gt;</b>				
4.	<b>MECHANICAL WORKS</b>				
	Mechanical Equipment				
	Ventilation Equipment				
	EF / P06-01	6.00	unit/s		
	EF / P06-02	1.00	unit/s		
	EF / P06-03	1.00	unit/s		



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
	AC Equipment				
	AHU-01	-	unit/s	Existing	-
	FFU / P06-(1-18)	18.00	unit/s		
	Air Distribution				
	AC Duct				
	Gauge #26		m2		
	Gauge #24		m2		
	Gauge #22		m2		
	Gauge #20		m2		
	Flexible Duct				
	200mm diam.		m		
	150mm diam.		m		
	100mm diam.		m		
	Polyolefin Insulation, 25mm thick		m2		
	Exhaust Airduct				
	Galvanized Steel Sheets - SMACNA HVAC Duct				
	Construction Standards, Gauge #24		m2		
	Air Terminals				
	Exhaust Air Grille				
	300 x 300mm		ea		
	Exhaust Air Louver				
	300 x 300mm		ea		
	250 x 200mm		ea		
	200 x 100mm		ea		
	Vent Cap				
	100mm diam.		ea		
	Fire Damper				
	1500 x 500mm		ea		
	1500 x 600mm		ea		
	200 x 200mm		ea		
	Volume Damper				
	350 x 300mm		ea		
	300 x 250mm		ea		
	250 x 200mm		ea		
	200 x 200mm		ea		
	150 x 150mm		ea		
	Supply Ceiling Diffuser with Volume Damper				
	200 x 200mm		ea		
	150 x 150mm		ea		
	Return Air Grille				
	700 x 400mm		ea		
	600 x 400mm		ea		
	400 x 400mm		ea		
	400 x 250mm		ea		
	300 x 200mm		ea		
	350 x 300mm		ea		



ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
	250 x 250mm		ea		
	250 x 200mm		ea		
	200 x 200mm		ea		
	150 x 150mm		ea		
	Sub-Total Material Cost >>				
	Sub-Total Labor Cost incldg tapping to the existing AHU>>				
	Total Mechanical Works >>				
5.	<b>ELECTRICAL AND AUXILIARY WORKS</b>				
	Subfeeder				
	Rough ins				
	50mm Ø IMC Pipe		m		
	50mm Ø IMC L&B		prs		
	32mm Ø IMC Pipe		m		
	32mm Ø IMC L&B		prs		
	25mm Ø IMC Pipe		m		
	25mm Ø IMC L&B		prs		
	Wires and Cables				
	80mm² THWN Wire		m		
	30mm² THWN Wire		m		
	14mm² THHN Wire		m		
	8.0mm² THWN Wire		m		
	5.5mm² THWN Wire		m		
	Panelboards, CB and UPS (See Panel Loads on the Plan)				
	DP-NICU	1.00	assy		
	LP-NICU	1.00	assy		
	PP-NICU-2	1.00	assy		
	PP-NICU	1.00	assy		
	PP-NICU-1	1.00	assy		
	30kVA, UPS, 3P, 240V, 60Hz w/ Internal 15min. Battery	2.00	set/s		
	Back-Up				
	3Pole, 150A, 600V, Industrial Type Circuit Breaker with	1.00	set/s		
	Enclosure				
	3Pole, 250A, 600V, Industrial Type Circuit Breaker with	1.00	set/s		
	Enclosure				
	Lighting System				
	Rough ins				
	15mm Ø EMT Pipe		m		
	15mm Ø EMT Coupling		pcs.		
	15mm Ø EMT Connector		pcs.		
	15mm Ø FMC		m		
	15mm Ø FMC Connector		pcs.		
	Junction Box with cover		nos.		
	Utility Box		nos.		
	Square Box		nos.		
	Wires and Cables				
	3.5mm² THWN Wire		m		