G/F PIECO Bldg. 2242 Don Chino Roces Ave., Makati City

Philippine General Hospital Infrastructure Project Felicidad Sy Multi-Specialty Building

UNIVERSITY OF THE PHILIPPINES – MANILA TAFT AVENUE, ERMITA, MANILA

BILL OF MATERIALS

Prepared By:

ARCHION ARCHITECTS

G/F PIECO Building, 2242 Chino Roces Ave., Makati City

DANIEL A. LICHAUCO Architect

PRC Reg. No.: 9243

Valid Until:

December 17, 2021

PTR No.:

8539260

Date Issued:

01/07/21

Issued at:

Makati City

TIN No.

172 958 490

FOR TENDER

DATE

7 2021



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PHILIPPINE GENERAL HOSPITAL Infrastructure Project FELICIDAD SY MULTI-SPECAILTY BULDING

ERMITA, MANILA CITY

RECOMMENDING APPROVAL:

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	PGH MULTI-SPECIALTY HOSPITAL BUILDING PHASE 2	
	PGH, ERMITA, MANILA	
UBJECT: F	FINAL SUMMARY	
Item	Description	Amount
Α	Structural Works	
1	Concreting (8th Floor to Roof Deck)	
2	Structural Steel Works	
	Subtotal for Structural Works	
В	MEPF Works (Provisional due to No Plans)	
1	Roughing-Ins (8th Floor to Roof Deck)	
2	Temporary Lighting for Parking Area	
	Subtotal for MEPF Works	
С	Architectural Works	
1	Exterior Wall	
2	Waterproofing Works	
3	Exterior Finishes	
3.1	Doors & Hardware	
3.2	Windows	
3.3		
3.4	Façade Painting	
	Subtotal for Architectural Works	
D	Parking Area (Finishes)	
E	Connecting Bridge	
F	General Requirements	
G	Other General Requirements	
	Total Direct Cost	
Н	Contractor's Profit	
I	Overhead, Contingencies and Misc.	
J	Contractor's Tax (12% of EDC+CP+OCM)	
K	Total Indirect Cost	
L	Total Estimated Project Cost	

PROJECT TITLE : Philippine General Hospital Infrastructure Project Felicidad Sy Multi-Specialty Building (Phase 2)

LOCATION : UP-PGH Compound, Ermita, Manila

SUBJECT : BILL OF QUANTITIES AND COST ESTIMATE

ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
A.	Structural Works				
	1 Concreting Works				
	a. Concrete (5000psi)				
	a.1 Columns		cu.m		
	a.2 Suspended Beams/Girders		cu.m		
	a.3 Suspended Slabs		cu.m		
	a.4 Concrete Walls		cu.m		
	a.5 Stairs		cu.m		
	Sub-Total for Concrete		cu.m		
	h Diban				
	b. Rebars				
	b.1 Grade 40 Suspended Beams/Girders		kas		
			kgs		
	Columns Supported State		kgs kgs		
	Suspended Slabs Stairs		kgs		
	Stall's		l kgs		
	b.2 Grade 60				
	Suspended Beams/Girders		kgs		
	Suspended Slabs		kgs		
	Columns		kgs		
	Concrete Walls		kgs		
	Stairs		kgs		
	b.3 Grade 75				
	Columns		kgs		
	Concrete Walls		kgs		
	Sub-Total for Rebars		kgs		
	c. Formworks				
	c.1 Suspended Beams/Girders		sq.m		
	c.2 Suspended Slabs		sq.m		
	c.3 Columns		sq.m		
	c.4 Concrete Walls		sq.m		
	c.5 Stairs		sq.m		
	Sub-Total for Formworks		sq.m		
	d. Construction Joint		I.m.		
	d. Construction Joint		I.M.		
	2 Concrete Canopy				
	a. Concrete		cu.m		
	b. Formworks		sqm		
	c. Rebar		kgs		
	o. Rosai		i iigo		
	3 Ledge				
	a. Concrete		cu.m		
	b. Formworks		sq.m		
	c. Rebar		kgs		
	Sub-Total for Concreting Works				
	4 Structural Steel				
	a. to Ramps		kgs		
	b. to Separator Beams		kgs		
	c. to Roofing		kgs		

ITEM	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
NO.	 		1		
	d. Metal Deck		00.00		
	e. Stairs		sq.m		
	Access to Underground		kgs		
	Access to Onderground Access to Genset		kgs		
	f. to Glass Canopy				
			kgs		
	g. Bolts Chembolt 36mm		200		
			pcs		
	Chembolt 25mm		pcs		
	Chembolt 16mm		pcs		
	Anchor Bolt 25mm		pcs		
	Anchor Bolt 20m		pcs		
	Anchor Bolt 16mm		pcs		
	Anchor Bolt 12mm		pcs		
	Anchor Bolt 10m		pcs		
	Sub-Total for Structural Steel		kgs		
	Sub-Total for Structural Works				
B.	Architectural Works				
	1 Exterior Walls				
	a. RC Walls				
	Concrete		cu.m		
	Rebar		kgs		
	Formworks		sq.m		
	b. Preparation for Painting		sq.m		
	C.		lm		
	15mm x 15mm PVC Architectural Grooves				
	Sub-Total for Exterior Walls				
	2 Waterproofing / Thermal Insulation Works				
	a. to Roof Deck				
	to recor book		sq.m		
	Torch on Membrane Waterproofing		"		
	Integral Waterproofing		cum		
	b. to Underground Utilities				
			sq.m		
	Crystalline Waterproofing w/ Epoxy Tank Lining		34.111		
	Ţ.				
			en m		
	Exposed Type Liquid Applied Waterproofing		sq.m		
			lm		
	d. to Drip Mould		1 1111		
	2 Tanning				
	3 Topping				
	a. to Roofdeck		sq.m		
	Sub-Total for Waterproofing Works				
	4 Doors including Hardware				
	a. To Exterior / Façade				
	Aluminum Framed Glass Door				
	12mm thk. Highly reflective tempered gl	ass			
	2.35m 2.0m		sets		
	2.60m 1.80m		sets		
	2.70m 1.40m		sets		
	Louver Door				
	18 GA aluminum storm resistant louver	in powder coat finish			
	2.10m 1.40m (Double Leaf)		sets		
	2.45m 1.40m (Double Leaf)		sets		
	2.45m 1.90m (Double Leaf)		sets		
	,	•	•		

ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
	2.45m 2.00m (Double Leaf)		sets		
	Sub-Total for Exterior Doors				
	5 Windows				
	a. To Exterior / Façade				
	Fixed Window w/ Hopper Window 10mm thk highly reflective tempered glass	in PVDF extruded alumi	num frames		
	2.02m x 3.45m	iii vbi extraded alailii	sets		
	3.00m x 2.77m		sets		
	Awning Window w/ Hopper Window				
	10mm thk highly reflective tempered glass	in PVDF extruded alumi			
	1.75m x 1.79m		sets		
	1.75m x 2.62m		sets		
	1.75m x 2.77m		sets		
	1.75m x 3.19m		sets		
	1.75m x 3.45m 1.75m x 4.02m		sets sets		
	1.75III X 4.UZM		3513		
	Awing Window w/ Fixed Window				
	10mm thk highly reflective tempered glass	in PVDF extruded alumi	num frames		
	1.75m x 3.45m		sets		
	2.95m x 2.77m		sets		
	2.95m x 3.19m		sets		
	Fixed Window w/ Awning Window				
	10mm thk highly reflective tempered glass	in PVDF extruded alumi			
	3.35m x 4.02m		sets		
	3.35m x 1.79m	in DVDE and alone	sets		
	12mm thk highly reflective tempered glass 4.90m x L	in PVDF extruded alumi	num trames sets		
	4.90m x 8.60m		sets		
	4.90m x 10.75m		sets		
	Fixed Window				
	10mm thk highly reflective tempered glass	in PVDF extruded alumi	num frames		
	1.75m x 2.62m		sets		
	1.75m x 3.45m		sets		
	1.75m x 4.02m		sets		
	2.95m x 3.19m		sets		
	10mm thk double glazed highly reflective to	empered glass fixed wind		truded aluminum frames	
	4.55m x 3.19m		sets		
	Fixed Window w/ Awning & Hopper Window				
	10mm thk highly reflective tempered glass	in PVDF extruded alumi	num frames		
	4.55m x 2.36m		sets		
	4.55m x 3.19m		sets		
	Open				
	1.75m x 4.02m		sets		
	1.75m x 1.79m		sets		
	1.75m x 2.77m		sets		
	1.75m x 3.19m		sets		
	1.79m x 3.45m		sets		
	2.02m x 2.77m		sets		
	2.95m x 3.19m		sets		
	Fixed Bay Window w/ Hopper & Awning Window				

ITEM	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
NO.					
	0 140 (1111)	annual alexant DVDE 1	line of the second of the seco		
	8mm and 10mm thk highly reflective ten 3.42m x 8.1m	npered glass in PVDF alum I	sets		
	3.42m x 9.2m		sets		
	4.0m x 8.1m		sets		
	7.0111 X O. 1111		000		
	Fixed Bay Window w/ Hopper Window				
	8mm and 10mm thk highly reflective ten	npered glass in PVDF alum	inum frames		
	3.42m x L		sets		
	4.00m x 9.2m		sets		
	4.00m x L		sets		
	Louver Window				
	18 GA aluminum storm resistant louver	in nowder coat finish			
	1.33m x 1.79m	In powder coat iniish	sets		
	1.33m x 2.51m		sets		
	1.75m x 3.19m		sets		
	3.10m x 2.93m		sets		
	3.35m x 1.79m		sets		
	3.35m x 3.19m		sets		
	3.35m x 4.02m		sets		
	Lead line window				
	10mm thk highly reflective tempered glass i	n lead lined steel frame			
	2.95m x 3.19m		sets		
	0.17.116.71.119.1				
	Sub-Total for Exterior Windows				
	6 Exterior Mouldings				
	a. Window A Molding		lm		
	b. Window B Molding		lm		
	c. Window C Molding		lm		
	d. Window D Molding		lm		
	e. Window E Molding		lm		
	f. Window F Molding		lm		
	g. Window G Molding		lm		
	h. Window H Molding		lm		
	I. Window I Molding		lm		
	J. Window J Molding		lm		
	k. Window K Molding		lm Im		
	m. Now Window A Molding		lm Im		
	n. Now Window B Molding Archad Window A Molding		lm lm		
	o. Arched Window A Molding p. Arched Window B Molding		lm		
	q. Front		lm		
	r. Rear		lm		
	s. Right Side		lm		
	t. Left Side		lm		
	Sub-Total for Exterior Mouldings				
	7 Painting				
	a. Exterior / Façade		00.77		
	Textured Paint		sq.m		
	Sub-Total for Architectural Works				
	Sub-Total for Alchitectural WORKS				
C.	MEPF Works				
	1 Roughing-ins to Superstructure				
	(8th Floor to Roof Deck)				
	Electrical				
	a. Lighting Layout				

	WORK PEOPLIPTIONS	OTV	11507	LINUT COOT	AMOUNT
ITEM No.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
NO.			<u> </u>		
	20mm IMC		lm		
	Octagonal Box				
	Octagoriai Box		pcs		
	h Davier Lavard				
	b. Power Layout				
	20mm IMC		lm		
	Subtotal Electrical				
	Auxiliary				
	a. FDAS				
	25mm PVC		lm		
	50mm PVC		lm		
	4" x 4" Square Box		pcs		
	b. PA System				
	50mm PVC		lm		
	4" x 4" Square Box		pcs		
	1 X 1 Square Box		poo		
	Outstated Associations				
	Subtotal Auxiliary				
	Discoulting				
	Plumbing				
	a. Sleeves				
	200mm PVC		рс		
	150mm PVC		pcs		
	100mm PVC		pcs		
	75mm PVC		pcs		
	Subtotal Plumbing				
	Fire Protection				
	a. Sleeves				
	32mm		pcs		
	40mm		pcs		
	50mm		pcs		
	65mm		<u> </u>		
	150mm		pcs		
	15011111		pcs		
	Subtotal Fire Protection				
	Sub-Total for Roughing-ins to				
	Superstructure				
	(8th Floor to Roof Deck)				
	2 Temporary Lighting for Parking Area				
	a. 15mm dia. IMC Pipe		lgth		
	b. 4" × 4" Octagonal Box		pcs		
	c. 3.5mm2 THHN		lm		
	d. 2-gang switch		pcs		
	e. 2" × 4" Utility Box		pcs		
	f. 2x16W LED Tube w/ Enclosure		sets		
	g. Temporary Power Provision		lot		
	(3Phase - 3 Wire + Ground power supply				
	from PGH Central Block to MSB)				
	h. Panelboard		assy		
	Lighting Panel				
	Main: 100AF/50AT, 3Ø+G, 400V, 18KAIC				
	MCCB				
	Branches: 20AT, 50AF, 1P				
	Enclusure: NEMA-1				
	Mounting: Surface Mounted		1.4		
	i. Hanger and Support		lot		

ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
	Sub-Total for Temporary Lighting				
	Sub-Total for MEPF Works				
D.	Parking Area		00 m		
	a. Temporary Board up b. Floor Finishes		sq.m		
	Parking (PU-epoxy)		sq.m		
	c. Ceiling Finishes				
	Rubbed Concrete		sq.m		
	d. Wall Finishes				
	Parking (Flat Acrylic Latex)		sq.m		
	e. Painting				
	to Ceiling (Flat Acrylic Latex)		sq.m		
	Traffic Paint		sq.m		
	Steel Deck (Flat Acrylic Latex)		sq.m sq.m		
	to Structural Steel (Flat Acrylic Latex)]		
	f. Miscellaneous Metals				
	Bollards		sets		
	Corner Guard		sets		
	g. Concrete Curbs		cu.m		
	h Wheel stop		рс		
	Sub-Total for Parking				
	Sub-rotation raiking				
E.	Connecting Bridge				
	1 Structural Works				
	a. Concrete (5000psi)		cu.m		
	b. Formworks		sq.m		
	c. Rebar Grade 40		kgs		
	d. Rebar Grade 60		kgs		
	e. Structural Steel (A36) f. Metal Deck		kgs sq.m		
	g.		m		
	Expansion Joint over 200mm Seismic Gap				
	h. Anchor Bolt 25mm		pcs		
	i. Anchor Bolt 10mm		pcs		
	2 Architectural Works				
	a. Plastering b. Precast Concrete		sq.m		
	b. Precast Concrete Cladding		sq.m		
	Moulding		Im		
	Zocallo		sq.m		
	Railing		lm		
	Baluster		set		
	100 x 100mm Topsill		lm Im		
	Concrete Bracket		lm		
	c. Painting				
	Elastomeric Paint		sq.m		
	Automotive Spray Paint		sq.m		
	d.		sq.m		
	GA24 Pre-painted GI Stile Roofing +				
	19mm thk Marine Plywood Undersheeting				
	e. Floor Finishes				
	C. LIOULLINGINGS		sq.m		
	300mm x 300mm x 10mm Anti-Slip, Non-skid Homogeneous, Floor Tiles				

ITEM NO.	WORK DESCRIPTIONS	QTY.	UNIT	UNIT COST	AMOUNT
140.					
	f. Ceiling Finishes				
	200mm wide Aluminum Ceiling		sq.m		
	Spandrel in Powder Coat Finish				
	g. Waterproofing				
	to Gutter		sq.m		
	h. Drip Mould		lm		
	Sub Total for Connecting Bridge				
	Sub-Total for Connecting Bridge				
E.	General Requirements				
	1 Temporary Faciltiies				
	a. Fence (On site)		lm		
	b. Guard House (On Site)		lot		
	c. Site Office				
	On-site		m2		
	Off-site		m2		
	d. Structured Cabling				included
	e. Power Distribution Supplies		lot		
	f. Water Distribution Supplies		lot		
	i. Formworks / Rebar Compound		m2		
	j. Material Storage Compound		m2		
	k. Motorpool Shed		m2		
	I. Curing Tank		m2		
	m. Wheel Washing Facility			-	by Phase 1 Contractor
	n. Canteen / Mess Hall		m2		
	t. Fence (Staging)		lm		
	u. Guard House (Staging)		lot		
	2 Plant & Equipment		mos		
	Sub-Total for General Requirements				
	Subtotal Direct Works				
	Subtotal Direct Works				
Н.	Other General Requirements				
	1 Safety & Security		mos		
	2 Street Roof Net (Canopy)		m2		
	3 Safety Net		m2		
	4 Perimeter Umbrella		m2		
	5 Safety Barricade		lm		
	6 Staging Area				
	a. On Site	-		-	included
	b. Off-site		mos		
	7 Barracks		mos		
	8 Erect / Dismantle Tower Crane		lot		
	9 Erect / Dismantle Passenger Elevator		lot		
	Sub-Total for Other General Requirements				
	GRAND TOTAL:				