

PHILIPPINE GENERAL HOSPITAL

The National University Hospital
University of the Philippines Manila
Office of Engineering and Technical Services
Taft Avenue, Ermita, Manila



PROJECT: REPAIR AND REWIRING OF ELECTRICAL FEEDER FOR CANCER INSTITUTE BUILDING

LOCATION: CANCER INSTITUTE BUILDING, PHILIPPINE GENERAL HOSPITAL

SUBJECT: BILL OF MATERIALS AND COST ESTIMATE

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TEM NO.	DESCRIPTION	QTY	UNIT	UNIT COST		TOTAL UNIT COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT		ADMINISTRATIVE	TOTAL COST	JINIT COST
				MATERIALS	LABOR	MATERIALS	LABOR	LOTHINATED DIRECT COOL	OCM	PROFIT	%	VALUE	VAI	COST		TOTAL COST	UNIT COS
.00	GENERAL REQUIREMENTS																_
	1 Mobilization and Demobilization	1.00	item														1
	Temporary Facilities/Storage, signages, scaffoldings	1.00	item														+
	3 Construction Occupational Health and Safety	1.00	item												 		+
											+			-			
	Sub-Total General Requirements >>										-			-			
00 0	CIVIL WORKS - TRENCHING										-			-			
	1 Excavation	43.20	m3								-			-			
	2 Backfilling and Compaction	10.80	m3								-			-			
	3 Gravel Bedding	10.80	m3														
	4 Concrete	21.60	m3									1		-			
	5 Restoration	5.50	m3														-
	6 Manhole 500mm x 500mm	3.00	sets											1			
	7 Hauling	1.00	item														1
														1			-
	Sub-Total Civil Works >>																
00 E	ELECTRICAL WORKS																+
	CIRCUIT BREAKERS																
	Air Circuit Breaker 1200AT, 3P, 480V, MP-PH-CB-CI, NEMA 1, Free Standing New Fabricated Extension Busbar	1.00	assy														
	2 Air Circuit Breaker 1200AT, 3P, 480V, MP-CB-CI, NEMA 1, Free-Standing	1.00	assy								-						-
	Air Circuit Breaker 1200AT, 3P, 480V, MP-CI, NEMA 1, Free-Standing		400)											-			
	Branch CB/s: 1 - 800AT,800AF 3P, 480V, MCCB; 3 1 - 250AT,250AF 3P, 480V, MCCB; 1 - 175AT,200AF 3P, 480V, MCCB; 1 - 160AT,200AF 3P, 480V, MCCB; 1 - SPACE,400AF 3P, 480V, MCCB;	1.00	assy														
	Moulded Case Circuit Breaker 600AT, 3P, 230V, MDP-CI-230V New Fabricated Extension Busbar	1.00	assy											-			+
	Moulded Case Circuit Breaker 600AT, 3P, 230V, MDP-CI-ELEV-230V New Fabricated Extension Busbar	1.00	assy											-			1
	Wires/Cables & Conduits													-			
	Supply and installation of wires & cables, conduits, boxes, fittings, termination accessories to complete the works Wires & Cables.													-			
	CENTRAL BLOCK TO CANCER INSTITUTE - 205 meters										-			-			
	6 250 mm2 THHN Wire (5 Sets of 3 - 250 mm2)	3,075.00	m														
	7 50 mm ² THHN Wire (G)	1,025.00												-			
	500KVA TO DP (EXISTING) - 10 meters	1,023.00	III														
_	8 250 mm2 THHN Wire (3 Sets of 3 - 250 mm2)	00.00															
_	9 38 mm² THHN Wire (G)	90.00	m														
_	CANCER INSTITUTE TO CANCER INSTITUTE ELEVATOR - 80 meters	30.00	m														
-													_				
_	10 200 mm ² THHN Wire (2 Sets of 3 - 200 mm ²)	480.00	m														
	11 38 mm ² THHN Wire (G)	160.00	m														
	POWER HOUSE TO CENTRAL BLOCK EE ROOM - 130 meters																+
	12 250 mm2 THHN Wire (2 Sets of 3 - 250 mm2)	780.00	m											-			+
	13 50 mm ² THHN Wire (G)	260.00	m										-				+
											-			+			+
	Conduits													-			+
	14 110mm dia PVC with Fittings and Complete Accessories - 60m per set (5sets)	92.00	lonaht-			-											
_	90mm dia IMC with Fittings and Complete Accessories - 145m per set (5sets)		lenghts			-											
_	15 90mm dia IMC with Fittings and Complete Accessories - 10m per set (3sets)	234.00	lenghts			-											
_	15 80mm dia IMC with Fittings and Complete Accessories - 10m per set (3sets) 15 80mm dia IMC with Fittings and Complete Accessories - 80m per set (2sets)	8.00	lenghts									_					
_		50.00	lenghts								1	-					
_		84.00	lenghts														1
	Pullbox																
1	16 400x400x250 mm	20.00	rtfgd								_			+			+



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DESCRIPTION	QTY	UNIT	UNIT COST		TOTAL UNIT COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT			TOTAL COST	UNIT COST
			MATERIALS	LABOR	MATERIALS	LABOR		OCM	PROFIT	%	VALUE		COST	COST	,	S
Miscellaneous Items																
Hangers and Supports (Steel Rods, Expansion Bolts, Strut-Channels, Conduit Straps, and other necessary items to support installations of distribution frames, wiring boxes, conduit runs and wiring devices)	1.00	item														
Civil Works (Coring of slab/wall for electrical lines & Installation of the Main Distribution Panel)	1.00	item														
Hardwares and Consumables (Butane, Cutting Discs, Drill Bits, Electrical Tapes, Mica tubes, and other necessary items to be consumed to assure correct installations of conduit runs and wirring devices)	1.00	item														
Testing & Commissioning	1.00	Item														
							1								- Type	
Sub-Total Electrical >>										1						
											ESTIMATI	ED TOTAL PRO	JECT DURATION		63	3 CD
		2.00	CIVIL WORKS ELECTRICAL W	VORKS MATERIAL AND Ad	dministrative Cost		:									
M	Civil Works (Coring of slab/wall for electrical lines & Installation of the Main Distribution Panel) Hardwares and Consumables (Butane, Cutting Discs, Drill Bits, Electrical Tapes, Mica tubes, and other necessary items to be consumed to assure correct installations of conduit runs and wiring devices) Testing & Commissioning	Hangers and Supports (Steel Rods, Expansion Bolts, Strut-Channels, Conduit Straps, and other necessary items to support installations of distribution frames, wiring boxes, conduit runs and wiring devices) Civil Works (Coring of slab/wall for electrical lines & Installation of the Main Distribution Panel) 1.00 Hardwares and Consumables (Butane, Cutting Discs, Drill Bits, Electrical Tapes, Mica tubes, and other necessary items to be consumed to assure correct installations of conduit runs and wiring devices) Testing & Commissioning 1.00	Hangers and Supports (Steel Rods, Expansion Bolts, Strut-Channels, Conduit Straps, and other necessary items to support 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Commissioning 1.00 Item Sub-Total Electrical >> 1.00 GENERAL REC 2.00 CIVIL WORKS 3.00 ELECTRICAL W	Hiscellaneous Items Hangers and Supports (Steel Rods, Expansion Bolts, Strul-Channels, Conduit Straps, and other necessary items to support installations of distribution frames, wiring boxes, conduit runs and wiring devices) Civil Works (Coring of slab/wall for electrical lines & Installation of the Main Distribution Panel) Hardwares and Consumables (Butane, Cutting Discs, Drill Bits, Electrical Tapes, Mica tubes, and other necessary items to be consumed to assure correct installations of conduit runs and wiring devices) Testing & Commissioning Sub-Total Electrical >> 1.00 item Sub-Total Electrical >> 1.00 GENERAL REQUIREMENTS 2.00 CIVIL WORKS 3.00 ELECTRICAL WORKS TOTAL MATERIAL ANI According to the support of the support	Hispers and Supports (Steel Rods, Expansion Bolts, Strut-Channels, Conduit Straps, and other necessary items to support installations of distribution frames, wiring 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Distribution Panel) Handwares and Concumbales (Bullane, Cutting Discs, Dill Bits, Electrical Tapes, Mica tubes, and other necessary items to be consumed to assure correct installations of conduit runs and wiring devices) Testing & Commissioning Sub-Total Electrical >> 1.00 Item	Hangers and Supports (Steel Rods, Expansion Boits, Strut-Channels, Conduit Straps, and other necessary items to outport installations of distribution frames, wiring boxes, conduit runs and wiring devices) Civil Works (Coring of stablwall for electrical lines & Installation of the Nation Distribution Panel) 1.00 item 1.00 item	Hangers and Supports (Steel Rods, Expansion Bolts, Strut-Channels, Conduit straps, and other necessary items to support installations of distribution frames, wiring boxes, conduit runs and wiring devices) Civil Works (Coring of stabilities of relectrical lines & Installation of the Main Distribution Parvel) Hardwares and Consumbales (College, Cutting Discs, Places, Utting Discs, Places, Pl	Hangers and Supports (Steel Rods, Expansion Bolts, Strut-Channels Conduit Straps, and other necessary items to cupport installations of discibilitions and subject (Steel Rods, Expansion Bolts, Strut-Channels Conduit Straps, and other necessary items to cupport installation of the Main Cistribution Pamel) Hardware and Consumbles (Blance, Culting Ottos, Diffe, Electrical Target, Microbia, and other necessary items to be consumed to assure correct installations of conduit runs and wiring devices) 1.00 item Sub-Total Electrical > 1.00 item Sub-Total Electrical > 1.00 item TOTAL MATERIALS A TOTAL ESTIMATED TOTAL PRO COVIL WORKS PhP	Alliscellaneous Items Hangers and Supports (Steat Rods, Expansion Bolls, Sint-Channels, Conduit Strags, and other necessary items to support indications of distribution frames, wining boxes, conduit runs and wining devices) Civil Voks (Ckring of distribution frames, wining boxes, conduit runs and wining devices) 1.00 item 1.	Insection received in terms Marterial S. DABOR Marterial S. DABOR	Insection Rems Marie Rad Supports (Steel Reds, Expansion Bolts, Sind-Channels, Conduit Straps, and other necessary items to support institution of distribution fermers, wining bows, conduit mus and wining devices) 1,00 24m

Prepared by: