

Republic of the Philippines  
 Department of Health  
**SOUTHERN PHILIPPINES MEDICAL CENTER**  
 Davao City  
**ENGINEERING AND FACILITIES MANAGEMENT**

PROJECT: DESIGN - BUILD OF 2-storey RADIOTHERAPY FACILITY (BUNKER) BUILDING  
 LOCATION: SPMC COMPOUND, J.P. LAUREL AVENUE, DAVAO CITY  
 SUBJECT: DETAILED ESTIMATE

DURATION: 240 Cal. Days

ITEM	DESCRIPTION	QUANTITY	UNIT	Material Cost	Labor Cost	UNIT COST	TOTAL COST
I.	<b>DESIGN PHASE</b>						
I.01	Architectural & Engineering Design						
						Material Cost	
						Labor Cost	
						Sub Total	
II.	<b>CONSTRUCTION PHASE</b>						
II.01	Mobilization / Demobilization						
						Labor Cost	
						Sub Total	
II.02	Demolition and Clearing						
						Material Cost	
						Labor Cost	
						Sub Total	
II.03	General Requirements						
						Material Cost	
						Labor Cost	
						Sub Total	
II.04	Safety & Health Requirements						
						Material Cost	
						Labor Cost	
						Sub Total	
II.05	Site/Earth Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.06	Structural Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.07	Architectural Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.08	Electrical Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.09	Plumbing Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.10	Mechanical Works						
						Material Cost	
						Labor Cost	
						Sub Total	
II.11	Other Works:						
						Material Cost	
						Labor Cost	
						Sub Total	
	<b>DIRECT COST:</b>						
	TOTAL MATERIAL COST						
	TOTAL LABOR COST						
	TOTAL DIRECT COST						
	<b>INDIRECT COST:</b>						
	OVERHEAD		3.00%				
	CONTIGENCIES		3.00%				
	MISCELLANEOUS		4.00%				
	PROFIT		10.00%				
	GOVERNMENT TAXES		5.00%				
	<b>TOTAL INDIRECT COST</b>						
	<b>TOTAL PROJECT COST</b>						

AMOUNT IN WORDS:

PREPARED AND SUBMITTED BY:

CONTRACTOR

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ITEM	DESCRIPTION	QUANTITY	UNIT	Material	Material Cost	Labor Cost	TOTAL COST
I.	<b>DESIGN PHASE</b>						
I.01	<b>Architectural &amp; Engineering Design</b>						
	Complete Architectural & Engineering Design	1.00	lot				
II.	<b>CONSTRUCTION PHASE</b>						
II.01	<b>Mobilization / Demobilization</b>						
	Mobilization	1.00	lot				
	Demobilization	1.00	lot				
II.02	<b>Demolition and Clearing</b>						
	Demolition	1.00	lot				
	Clearing	1.00	lot				
II.03	<b>General Requirements</b>						
	Construction of temporary office	1.00	lot				
	Construction of temporary warehouse	1.00	lot				
	Construction of temporary barracks	1.00	lot				
	Construction of temporary fence	1.00	lot				
	Materials Testing & Research	1.00	lot				
	Temporary electricity & water connection	1.00	lot				
II.04	<b>Safety &amp; Health Requirements</b>	1.00	lot				
II.05	<b>Site/Earth Works</b>						
	Site Clearing & Waste Disposal	500.00	sq.m.				
	Excavation	1,000.00	cu.m.				
	Backfilling & Compaction	200.00	cu.m.				
	Staking & Layout	1.00	lot				
	Gravel Bedding	100.00	cu.m.				
	Earthfill/Embankment	500.00	cu.m.				
	Soil Investigation	1.00	lot				
	Soil Treatment	150.00	sq.m.				
II.06	<b>Structural Works</b>						
	<b>a. Foundation (Footing, Footing Tiebeam, &amp; Wall Footing)</b>						
	Ready Mix Concrete	100.00	cu.m.				
	Deformed Bar G40	500.00	kgs				
	Deformed Bar G60	100.00	kgs				
	G.I. Tie Wire Ga.16	0.60	kgs				
	Formworks	1.00	lot				
	<b>b. Column Pedestals</b>						
	Ready Mix Concrete	25.00	cu.m.				
	Deformed Bar G40	100.00	kgs				
	Deformed Bar G60	100.00	kgs				
	G.I. Tie Wire Ga 16	0.40	kgs				
	Formworks & Scaffolding	1.00	lot				
	<b>c. Slab on Fill</b>						
	Ready Mix Concrete	60.00	cu.m.				
	Deformed Bar G40	200.00	kgs				
	G.I. Tie Wire Ga.16	0.20	kgs				

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ITEM	DESCRIPTION	QUANTITY	UNIT	Material	Material Cost	Labor Cost	TOTAL COST
	<b>d. Suspended Slab &amp; Stairs</b>						
	Ready Mix Concrete	55.00	cu.m				
	Deformed Bar G40	1,500.00	kgs				
	G.I. Tie Wire Ga.16	20.00	kgs				
	Formworks & Scaffolding	1.00	lot				
	Steel Deck	100.00	sq.m				
	<b>e. Ramp</b>						
	Ready Mix Concrete	20.00	cu.m				
	Deformed Bar G40	1,500.00	kgs				
	G.I. Tie Wire Ga.16	10.00	kgs				
	Formworks & Scaffolding	1.00	lot				
	<b>g. Structural Steel (Columns and Beams)</b>						
	Structural Steel	83,000.00	kgs				
	Bolts and Nuts	300.00	kgs				
	MS Plates	550.00	kgs				
	Anchor Bolts	166.00	kgs				
	Erection and Scaffolding	1.00	lot				
	<b>h. Land Development</b>						
	Ready Mix Concrete	500.00	cu.m				
	Deformed Bar G40	5,500.00	kgs				
	G.I. Tie Wire Ga.16	1,000.00	kgs				
	<b>h. Consumables</b>	1.00	lot				
11.07	<b>Architectural Works</b>						
	<b>a. Masonry Works</b>						
	CHB 6"	2,600.00	pcs				
	CHB 4"	2,000.00	pcs				
	Cement	3,000.00	bags				
	Coarse Sand	800.00	cu.m				
	Fine Sand	800.00	cu.m				
	Deformed Bar G40	2,600.00	kgs				
	G.I. Tie Wire Ga.16	200.00	kgs				
	Scaffolding	1.00	lot				
	<b>b. Architectural Finishes</b>						
	Granite Tiles	600.00	sq.m				
	Non-Skid Tiles	260.00	sq.m				
	Homogeneous tile with anti bacterial, anti fungal property	200.00	sq.m				
	Installation of cove former	180.00	lm				
	Installation of capping strip	180.00	lm				
	Self levelling	200.00	sq.m				
	Environmental Graphic Designs (EGD) / Signage	20.00	pcs				
	Ficem Board Partition Wall	250.00	sq.m				
	Cement Board Ceiling	600.00	sq.m				
	Sky ceiling acrylic panels (lighted)	140.00	sq.m				
	PVC Ceiling Panel 5mm THK (verify dimension)	700.00	sq.m				
	Toilet Cubicle Partitions with Doors	1.00	lot				
	<b>c. Doors and Windows</b>						
	Glass on Aluminum Windows	1.00	lot				
	Glass on Aluminum Doors	1.00	lot				
	Tempered Glass Panel Doors	1.00	lot				
	Curtain Wall Tempered Glass Panel	1.00	lot				
	Façade Tempered Glass (awning type)	1.00	lot				
	Stainless Steel Flush Door with lead for CT SCAN	1.00	lot				
	Double Swing Steel Flush Door with lead for RING-TYPE LINAC	1.00	lot				
	Double Swing Steel Flush Door with lead for LINAC	1.00	lot				
	Single Swing Steel Flush Door	1.00	lot				
	Flush Door	1.00	lot				
	PVC Door	1.00	lot				
	<b>d. Painting Works</b>						
	External Walls	1.00	lot				
	Internal Walls and Partitions	1.00	lot				
	<b>e. Railings and other Architectural Steel</b>						
	Aluminum Cladding	1.00	lot				
	Steel Railings with Stainless Steel Handrail	1.00	lot				
	<b>f. Thermal and Moisture Protection</b>						
	Waterproofing	1.00	lot				
	Fire Protection	1.00	lot				
	<b>g. Consumables</b>	1.00	lot				

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ITEM	DESCRIPTION	QUANTITY	UNIT	Material	Material Cost	Labor Cost	TOTAL COST
II.08	<b>Electrical Works</b>						
	<b>GROUND FLOOR</b>						
	<b>1.1 Panel Board &amp; Circuit Breakers</b>						
	Panel Board Branches NEMA 3; Wall Mounted Enclosure; 3P, Center Main; 8 Branches/3P, Complete Set with Busbar Assembly, Ground, Powder Coated & with Digital Display Energy Meter	1.00	lot				
	Panel Board Branches NEMA 3; Wall Mounted Enclosure; 3P, Center Main; 16 Branches/3P, Complete Set with Busbar Assembly, Ground, Powder Coated & with Digital Display Energy Meter	3.00	lot				
	Circuit Breaker (MCCB); 1250AT/1250AF; 50kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 350AT/400AF; 36kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 160AT/250AF; 36kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 125AT/250AF; 36kAIC; 3P, Bolt on	3.00	pc				
	Circuit Breaker (MCCB); 60AT/100AF; 30 kAIC; 3P, Bolt on	4.00	pc				
	Circuit Breaker (MCCB); 50AT/100AF; 30 kAIC; 3P, Bolt on	14.00	pc				
	Circuit Breaker (MCCB); 30AT/100AF; 30 kAIC; 2P, Bolt on	14.00	pc				
	Circuit Breaker (MCCB); 20AT/100AF; 30 kAIC; 2P, Bolt on	12.00	pc				
	<b>1.2 Lighting System</b>						
	(2x9)watts (600mmx600mm) LED fluorescent lighting fixtures with mirrored louvers (Recessed Type)	70.00	pc				
	9 watts LED Pinlight 4"	50.00	pc				
	LED Type Emergency Light	21.00	pc				
	<b>1.3 Wiring Devices (Branded &amp; Heavy Duty Type)</b>						
	Convenience Outlet, 1 Gang, 3 Prong, Universal	21.00	sets				
	Convenience Outlet, 2 Gang, 3 Prong, Universal (Hospital Grade)	62.00	sets				
	Switch, 1 Gang	17.00	pc				
	Switch, 2 Gang	6.00	pc				
	Switch, 3 Gang	15.00	pc				
	<b>1.4 Wires &amp; Cables</b>						
	# 8.0 mm <sup>2</sup> THHN/THW Stranded Copper Wire (x150)	3.00	roll				
	# 5.5 mm <sup>2</sup> THHN/THW Stranded Copper Wire (x150)	7.00	roll				
	# 3.5 mm <sup>2</sup> THHN/THW Stranded Copper Wire (x150)	18.00	roll				
	# 2.0 mm <sup>2</sup> THHN/THW Stranded Copper Wire (x150)	5.00	roll				
	#22/4 Telephone Wire	1.00	roll				
	LAN Cables	1.00	roll				
	<b>1.5 Roughing-ins</b>						
	GI Gutter Box 120cm x 40cm x 40cm	1.00	sets				
	Junction Box 4" x 4" (Metal Heavy Duty Type)	95.00	pcs				
	Utility Box 2" x 4" (Metal Heavy Duty Type)	125.00	pcs				
	uPVC Rigid Electrical conduit pipe 20mmØ PNS certified	150.00	pcs				
	uPVC Rigid Electrical conduit pipe 25mmØ PNS certified	120.00	pcs				
	uPVC Rigid Electrical conduit pipe 32mmØ PNS certified	50.00	pcs				
	uPVC Rigid Electrical conduit pipe 40mmØ PNS certified	20.00	pcs				
	uPVC Rigid Electrical conduit pipe 80mmØ PNS certified	15.00	pcs				
	uPVC Rigid Electrical conduit pipe 90mmØ PNS certified	20.00	pcs				
	PVC Elbow 20mmØ PNS certified	1.00	lot				
	PVC Elbow 25mmØ PNS certified	1.00	lot				
	PVC Elbow 32mmØ PNS certified	1.00	lot				
	PVC Elbow 40mmØ PNS certified	1.00	lot				
	PVC Elbow 80mmØ PNS certified	1.00	lot				
	PVC Elbow 90mmØ PNS certified	1.00	lot				
	PVC Clamp 20mmØ	1.00	lot				
	PVC Clamp 25mmØ	1.00	lot				
	PVC Clamp 32mmØ	1.00	lot				
	PVC Clamp 40mmØ	1.00	lot				
	PVC Clamp 80mmØ	1.00	lot				
	PVC Clamp 90mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 20mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 25mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 32mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 40mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 80mmØ	1.00	lot				
	PVC Adaptor w/ Locknut 90mmØ	1.00	lot				
	uPVC Electrical Square Box 6" x 6"	10.00	lot				
	uPVC Flexible Conduit Hose 20mmØ	5.00	roll				

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LOCATION: SPMC COMPOUND, J.P. LAUREL AVENUE, DAVAO CITY  
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ITEM	DESCRIPTION	QUANTITY	UNIT	Material	Material Cost	Labor Cost	TOTAL COST
	Angle Bars 20"x2"x1/8" (For Bracket & Support)	1.00	lot				
	Anchor Bolt Expansion	1.00	lot				
	3M Electrical Tape Big	25.00	pcs				
	PVC Solvent	25.00	pcs				
	Galvanize Tie Wire Gauge 16	10.00	kg				
	<b>1.6 Ventillation Equipment (Branded and Heavy Duty Type)</b>						
	Exhaust Fan w/ Shutter; Ceiling Mounted (10"x10")	21.00	pcs				
	uPVC Rigid Electrical conduit pipe 100mmØ PNS certified	35.00	pcs				
	PVC Elbow 100mmØ PNS certified	1.00	lot				
	Air Conditioning Unit, Split Type, Ceiling Suspended; 5TR	2.00	units				
	Air Conditioning Unit, Split Type, Ceiling Cassette; 3HP	6.00	units				
	Air Conditioning Unit, Split Type, Ceiling Cassette; 2HP	6.00	units				
	<b>1.7 Communications</b>						
	LAN Outlet; 1 Gang	15.00	pcs				
	LAN Outlet; 2 Gang	10.00	pcs				
	Telephone Outlet 1 Gang	15.00	pcs				
	<b>1.8 Fire Detection and Alarm System</b>						
	Complete Fire Alarm System	1.00	lot				
	<b>1.9 Security and CCTV System</b>						
	Complete Security and CCTV System	1.00	lot				
	<b>2.1 CATV/MATV System</b>						
	Complete CATV/MATV System	1.00	lot				
	<b>2.3 IT System and Internet Connectivity</b>						
	Complete Supply, delivery and installation of IT System and Internet Connectivity	1.00	lot				
	<b>SECOND FLOOR</b>						
	<b>1.1 Panel Board &amp; Circuit Breakers</b>						
	Panel Board (Main Distribution) NEMA 3; Wall Mounted Enclosure; 3P, Center Main; 4 Branches/3P, Complete Set with Busbar Assembly, Ground, Powder Coated & with Digital Display Energy Meter	1.00	lot				
	Panel Board Sub-Main NEMA 3; Wall Mounted Enclosure; 3P, Center Main; 8 Branches/3P, Complete Set with Busbar Assembly, Ground, Powder Coated & with Digital Display Energy Meter	2.00	lot				
	Panel Board Branches NEMA 3; Wall Mounted Enclosure; 3P, Center Main; 16 Branches/3P, Complete Set with Busbar Assembly, Ground, Powder Coated & with Digital Display Energy Meter	3.00	lot				
	Circuit Breaker (MCCB); 2000AT/2000AF; 50kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 1600AT/1600AF; 50kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 1250AT/1250AF; 50kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 350AT/400AF; 36kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 160AT/250AF; 36kAIC; 3P, Bolt on	1.00	pc				
	Circuit Breaker (MCCB); 125AT/250AF; 36kAIC; 3P, Bolt on	3.00	pc				
	Circuit Breaker (MCCB); 60AT/100AF; 30 kAIC; 3P, Bolt on	2.00	pc				
	Circuit Breaker (MCCB); 50AT/100AF; 30 kAIC; 3P, Bolt on	16.00	pc				
	Circuit Breaker (MCCB); 30AT/100AF; 30 kAIC; 2P, Bolt on	12.00	pc				
	Circuit Breaker (MCCB); 20AT/100AF; 30 kAIC; 2P, Bolt on	10.00	pc				
	<b>1.2 Lighting System</b>						
	(2x9)watts (600mmx600mm) LED fluorescent lighting fixtures with mirrored louvers (Recessed Type)	34.00	pc				
	9 watts LED Pinlight 4"	32.00	pc				
	LED Type Emergency Light	13.00	pc				
	<b>1.3 Wiring Devices (Branded &amp; Heavy Duty Type)</b>						
	Convenience Outlet, 1 Gang; 3 Prong, Universal	13.00	pc				
	Convenience Outlet, 2 Gang; 3 Prong, Universal (Hospital Grade)	47.00	pc				
	Switch, 1 Gang	16.00	pc				
	Switch, 2 Gang	3.00	pc				
	Switch, 3 Gang	5.00	pc				
	<b>1.4 Wires &amp; Cables</b>						
	# 250 mm <sup>2</sup> THHN/THW Stranded Copper Wire	1.00	roll				

