

Republic of the Philippines
Department of Health
SOUTHERN PHILIPPINES MEDICAL CENTER
Davao City

ENGINEERING AND FACILITIES MANAGEMENT

PROJECT: PROPOSED EXPANSION OF DIETARY SECTION
LOCATION: SPMC COMPOUND, J.P. LAUREL AVENUE, DAVAO CITY
SUBJECT: DETAILED ESTIMATE

DURATION : 240 Cal. Days

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
1.00	General Requirements				
	Technical Documentation		lot		-
	Safety and Health Program		lot		-
				Material Cost	-
				Labor Cost	-
				Sub Total	-
2.00	Mobilization / Demobilization				
	Contractor's Temporary Facilities and Ammenities incl. light and water bills		lot		-
				Material Cost	-
				Labor Cost	-
				Sub Total	-
3.00	Material Testing & Research				
	Concrete Compressive Strength Test & Deformed Bars Bend, Yield Strength and Tensile Strength Test, FDT		lot		-
	Inspection, Hydro-testing and Commissioning of the system		lot		-
				Labor Cost	-
				Sub Total	-
4.00	Site/Earth Works				
	Demolition of existing structures		sq. m		-
	Site Clearing & Waste Disposal		sq. m		-
	Staking , Layout & batter boards		lot		-
	Excavation		cu.m.		-
	Filling/Backfilling/Compaction		cu.m.		-
	Gravel bedding (yy Blended Gravel)		cu.m.		-
	Assorted coco lumbers		bf		-
	3/8" ordinary plywood		sheets		-
	Assorted CWN		kegs		-
	Soil Poisoning / Treatment		lot		-
	Restoration works		lot		-
	Installation of fire sprinkler system		lot		-
	Installation of fire detection and alarm system		lot		-
	Consumables		lot		-
				Material Cost	-
				Equipment Cost	-
				Labor Cost	-
				Sub Total	-
5.00	Structural Works				
	5.1 Footings, Wall footings, Columns, Beams, & Slabs				
	Concrete (3000psi in 28 days)		cu.m.		-
	Reinforced Deformed Bar		kgs		-
	Tie Wire		bundle		-
	Consumables		lot		-

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ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	5.2 Structural Steel				
	Wide Flange Section and I-beams		kgs		-
	Stud Bolt 25mm.øx400mm. (A325) fully threaded		pc(s).		-
	MS Plate 1.2m.x 2.4m.x 25 mm. STD		sheet(s)		-
	Welding Electrode 3.0mm.ø(1/8"ø) E6011 20kg.		box(es)		-
	Epoxy Primer Red Oxide		gal(s).		-
	Industrial Oxygen		tank(s)		-
	Liquified Petroleum Gas		tank(s)		-
	Consumables,		lot		-

			Material Cost	-
			Equipment Cost	-
			Labor Cost	-
			Sub Total	-

6.00	Finishing & Masonry Works				
	CHB Perimeter wall 4 " thk.		pcs		-
	Concrete Slab		cu m		-
	Concrete beams		cu m		-
	Stainless Steel counters		units		-
	Ceramic Glazed wall Tile 300 mm x 300mm @ CR walls and counters		lot		-
	Granite floor tiles 600mm x 600mm (slip proof, outdoor type)		sq m		-
	Tile adhesive		bags		-
	Tile Grout (2Kg.)		bags		-
	Tile Trim		pcs		-
	Cement		bags		-
	Coarse Sand		cu m		-
	10mmØ x 6 deformed bars G33		pcs		-
	Stair and ramp Reinforcement Works		lot		-
	Forms & Scaffolds		lot		-
	2"X 2"X 3/16" welded wire fabric on 2"x2"x1.5mm B.I. Tubular frame in paint finish		ln.m		-
	2" concrete nail		kgs		-
	tie wire		bundle		-
	consumables		lot		-

			Material Cost	-
			Labor Cost	-
			Sub Total	-

7.00	Doors and Windows				
	Aluminum Panel Doors 900mm W x 2100mm H - 2 sets with view window		sets		-
	Heavy Duty Door Closer "arm type"		units		-
	PVC Door		units		-
	Hollow core flush type door		sets		-
	Stainless Loose Pin Hinges 4" x 4"		pcs.		-
	Stainless Steel Sliding Windows w/ grills and screen		sets		-
	Weather Strip x 900mm L		lengths		-

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				Material Cost	-
				Labor Cost	-
				Sub Total	-

8.00	Plumbing Works				
	Water Closet		sets		-
	Stainless steel kitchen sink set		sets		-
	Lavatory with Pedestal		sets		-
	Accessories		lot		-
	Waterlines		lot		-
	Plumbing Lines		lot		-
	Consumbles		lot		-

				Material Cost	-
				Labor Cost	-
				Sub Total	-

9.00	Carpentry Works				
	Shelves, cabinets, drawers				
	19mm thk plyboard		pcs		-
	2" finishing nails		box		-
	Stainless steel table		sets		-
	Wood glue		gals.		-
	conceaed hinges		pcs		-
	lock sets		sets		-
	shutter handles		pcs		-

				Material Cost	-
				Labor Cost	-
				Sub Total	-

10.00	Ceiling Works				
	PVC Laminted Board Board on T-Runner with C-channel Hanger		sq.m		-
	Anodized Aluminum Main Tee		lengths		-
	Anodized Aluminum Cross Tee		pcs		-
	T-Connector		pcs		-
	Cross Connector		pcs		-
	Anodized Aluminum Wall Angles		lengths		-
	All Thread Rod 3/8"Ø		pcs		-
	Turn Buckle		pcs		-
	Botls and Nuts		pcs		-
	PVC Ceiling & Accessories		sq.m		-
	Assorted Concrete nails		box		-
	Consumables		lot		-

				Material Cost	-
				Labor Cost	-
				Sub Total	-

11.00	Roofing /canopies / Alum. Cladding and Welding Works				
	Steel Deck		sq.m.		-

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	Steel Truss (Angular Bar 55mm.x55mm.x5mm)		kg		-
	Longspan Roofing 1.3mm thk.		lm		-
	Metalplas Gutter 1.3mm thk.		pcs		-
	Metalplas Wall Flashing 1.3mm thk.		pcs		-
	2" teck screw		pcs		-
	blind rivets (assorted)		box(es)		-
	elastomeric sealant		cans		-
	C-Purlin 100mm.x50mmx0.8mmx6m		length(s)		-
	12mm ø plain round bar for tension rods		length(s)		-
	12mm ø turn buckle		pcs		-
	10mm ø plain round bar for sag rods		length(s)		-
	Alumunim Composite Panel PVDF 4mm on aluminum framing and brackets		sq.m		-
	Consumables,		lot		-

				Material Cost	-
				Labor Cost	-
				Sub Total	-

12.00	Electrical Works				
	12.1 Panel Board & Circuit Breakers				
	Panel Board Main; 250A/3P, Bolt on, Center Main; 4 Branches/3P		unit		-
	Panel Board Sub-Main; 175A/3P, Bolt on, Center Main; 12 Branches/2P,		unit		-
	Panel Board Sub-Main; 150A/3P, Bolt on, Center Main; 12 Branches/2P,		units		-
	Panel Board Sub-Main; 125A/3P, Bolt on, Center Main; 12 Branches/2P,		units		-
	Circuit Breaker; 250A/3P, Bolt on, (Compatible to supplied Panelboard)		unit		-
	Circuit Breaker; 175A/3P, Bolt on, (Compatible to supplied Panelboard)		units		-
	Circuit Breaker; 150A/3P, Bolt on, (Compatible to supplied Panelboard)		unit		-
	Circuit Breaker; 125A/3P, Bolt on, (Compatible to supplied Panelboard)		unit		-
	Circuit Breaker; 50A/2P, Bolt on, (Compatible to supplied Panelboard)		unit		-
	Circuit Breaker; 30A/2P, Bolt on, (Compatible to supplied Panelboard)		units		-
	Circuit Breaker; 20A/2P, Bolt on, (Compatible to supplied Panelboard)		units		-
	Circuit Breaker; 15A/2P, Bolt on, (Compatible to supplied Panelboard)		units		-
	Circuit Breaker with Enclosure NEMA 3; 30A/2P, Bolt on		units		-
	12.2 Lighting System				
	(2x9)watts (600mm) LED fluorescent lighting fixtures with mirrorized louvers (Recessed Type)		sets		-
	9 watts LED Pinlight 4"		sets		-

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ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	Receptacle		pcs.		-
	LED Type Emergency Light		units		-
	12.3 Wiring Devices (Branded & Heavy Duty Type)				
	Air Conditioning Unit Outlet		sets		-
	Convenience Outlet, 1 Gang; 3 Prong, Universal		sets		-
	Convenience Outlet, 2 Gang; 3 Prong, Universal (Hospital Grade)		sets		-
	Switch, 1 Gang		sets		-
	Switch, 2 Gang		sets		-
	Switch, 3 Gang		sets		-
	12.4 Wires & Cables				
	# 125 mm² THW Stranded Copper Wire		mtrs.		-
	# 80 mm² THW Stranded Copper Wire		mtrs.		-
	# 14.0 mm² THW Stranded Copper Wire		mtrs.		-
	# 8.0 mm² THW Stranded Copper Wire		boxes		-
	# 5.5 mm² THW Stranded Copper Wire		boxes		-
	# 3.5 mm² THW Stranded Copper Wire		boxes		-
	# 2.0 mm² THW Stranded Copper Wire (GREEN COLOR)		boxes		-
	# 22/4 Telephone Wire		rolls		-
	LAN Cables		rolls		-
	12.5 Roughing-ins				
	PVC Junction Box 4" x 4" (deep Type)		pcs.		-
	PVC Utility Box 2" x 4" (deep Type)		pcs.		-
	uPVC Electrical conduit pipe 15mmØ PNS certified		lengths		-
	uPVC Electrical conduit pipe 32mmØ PNS certified		lengths		-
	uPVC Electrical conduit pipe 50mmØ PNS certified		lengths		-
	uPVC Electrical conduit pipe 65mmØ PNS certified		lengths		-
	uPVC Electrical conduit pipe 80mmØ PNS certified		lengths		-
	PVC Elbow 15mmØ PNS certified		pcs.		-
	PVC Elbow 32mmØ PNS certified		pcs.		-
	PVC Elbow 50mmØ PNS certified		pcs.		-
	PVC Elbow 65mmØ PNS certified		pcs.		-
	PVC Elbow 80mmØ PNS certified		pcs.		-
	PVC Clamp 15mmØ		pcs.		-
	PVC Clamp 32mmØ		pcs.		-
	PVC Clamp 50mmØ		pcs.		-
	PVC Clamp 65mmØ		pcs.		-
	PVC Clamp 80mmØ		pcs.		-
	PVC Adaptor w/ Locknut 15mmØ		pcs.		-
	PVC Adaptor w/ Locknut 32mmØ		pcs.		-
	PVC Adaptor w/ Locknut 50mmØ		pcs.		-
	PVC Adaptor w/ Locknut 65mmØ		pcs.		-
	PVC Adaptor w/ Locknut 80mmØ		pcs.		-
	3M Electrical Tape Big		rolls		-
	PVC Solvent		cans		-
	Galvanize Tie Wire Gauge 16		kilos		-
	12.6 Ventillation Equipment (Branded and Heavy Duty Type)				

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	Exhaust Fan w/ Shutter; Ceiling Mounted (10"x10")		units		-
	Ceiling Fan (Orbit Fan)		units		-
	Exhaust Fan Industrial Type, Metal; Heavy Duty (19"x19")		units		-
	Air Conditioning Unit Split Type; 1.5Hp		units		-
	Air Conditioning Unit Window Type; 2.0Hp		units		-
	Air Conditioning Unit Split Type; 2.0Hp		units		-
	Air Conditioning Unit Split Type; Ceiling Mounted; 3Tonner (DAIKIN)		units		-
	12.7 Communications				
	LAN Outlet; 1 Gang		sets		-
	LAN Outlet; 2 Gang		sets		-
	Telephone Outlet 1 Gang		sets		-
	12.8 Modular Fire Alarm Panel		lot(s)		-
	12.9 Panel Interface Module		lot(s)		-
	12.10 Fire Service Appliances (Loop)				
	Red Display LEDs for display panel		pc(s)		-
	Display Panel w/ up to 96 LEDs		pc(s)		-
	12.11 Automatic Fire Detectors				
	Dual Optical smoke detector		pc(s)		-
	Standard Detector base		pc(s)		-
	12.12 Manual Call Points		lot(s)		-
	12.13 Optical Signaling Devices		lot(s)		-

			Material Cost	-
			Labor Cost	-
			Sub Total	-

13.00	MECHANICAL WORKS				
	Piping System				
	BI PIPE SCHEDULE 40 ASTM-A53				
	Pipe Size, 4"Ø		length(s)		-
	Pipe Size, 3"Ø		length(s)		-
	Pipe Size, 2-½"Ø		length(s)		-
	Pipe Size, 2"Ø		length(s)		-
	Pipe Size, 1-½"Ø		length(s)		-
	Pipe Size, 1-¼"Ø		length(s)		-
	Pipe Size, 1"Ø		length(s)		-
	Sprinkler Head ½ NPT, Pendent (175-225°F)		pc(s)		-
	Sprinkler Head ½ NPT, Upright (175-225°F)		pc(s)		-
	Pipe Fitting Works				
	BI Welding Elbows, Couplings, Reducers, Tee				
	Slip-on Flange, Class 150 BI, Welded Type, 4"Ø		pc(s)		-
	Slip-on Flange, Class 150 BI, Welded Type, 3"Ø		pc(s)		-
	Slip-on Flange, Class 150 BI, Welded Type, 2-½"Ø		pc(s)		-

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	Slip-on Flange, Class 150 BI, Welded Type, 2"Ø		pc(s)		-
	Blind Flange, Class 150 BI, Welded Type, 4"Ø		pc(s)		-
	Blind Flange, Class 150 BI, Welded Type, 3"Ø		pc(s)		-
	GI Stud Bolt, w/ Nut & Washer, ¾" x 4"		pc(s)		-
	GI Stud Bolt, w/ Nut & Washer, ¾" x 3"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 4"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 3"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 2-½"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 2"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 1-½"		pc(s)		-
	BI Elbow Equal 90°, Welded Type, 1"		pc(s)		-
	BI Tee Reducer 90°, Threaded Type, 1" x 1" x 1-¼"		pc(s)		-
	BI Tee Reducer 90°, Threaded Type, 1-¼" x 1" x 1-½"		pc(s)		-
	BI Tee Reducer 90°, Threaded Type, 1-¼" x 1-½" x 1-½"		pc(s)		-
	BI Tee Reducer 90°, Threaded Type, 1-¼" x 1-½" x 2"		pc(s)		-
	BI Tee Reducer 90°, Welded Type, 2" x 2" x 1-¼"		pc(s)		-
	BI Tee Reducer 90°, Welded Type, 2-½" x 2-½" x 2"		pc(s)		-
	BI Tee Reducer 90°, Welded Type, 3" x 3" x 1-½"		pc(s)		-
	BI Tee Reducer 90°, Welded Type, 3" x 3" x 2"		pc(s)		-
	BI Tee Reducer 90°, Welded Type, 3-½" x 3-½" x 1-½"		pc(s)		-
	BI Tee Equal, Threaded Type, Size: 1"		pc(s)		-
	BI Tee Equal, Threaded Type, Size: 1-¼"		pc(s)		-
	BI Tee Equal, Threaded Type, Size: 1-½"		pc(s)		-
	BI Bell Reducer, Concentric, Threaded Type, Size: 1-¼" x 1"		pc(s)		-
	BI Bell Reducer, Concentric, Threaded Type, Size: 1-½" x 1-¼"		pc(s)		-
	BI Bell Reducer, Concentric, Welded Type, Size: 2" x 1-½"		pc(s)		-
	BI Bell Reducer, Concentric, Welded Type, Size: 2-½" x 2"		pc(s)		-
	BI Bell Reducer, Concentric, Welded Type, Size: 3" x 2-½"		pc(s)		-
	BI Reducing Elbow, Threaded Type, Size: 1-¼" x 1"		pc(s)		-
	Gasket (Rubber Mat) 1m x 1m		sheet(s)		-
	Piping Support Works				
	Hangers, Brackets, Expansion Shield, Bolts and Nuts				
	Pipe Clamp, 4"Ø		pc(s)		-
	Pipe Clamp, 3"Ø		pc(s)		-
	Pipe Clamp, 2-½"Ø		pc(s)		-
	Pipe Clamp, 2"Ø		pc(s)		-
	Pipe Clamp, 1-½"Ø		pc(s)		-
	Pipe Clamp, 1-¼"Ø		pc(s)		-
	Pipe Clamp, 1"Ø		pc(s)		-
	Angle Bar 1-¼" x 1-¼" x 3/16"		length(s)		-
	Round Bar, ¾"Ø		length(s)		-
	Flat Bar, 1 x ½"		length(s)		-
	U-Bolt, 4"Ø w/ nut and washer, ½"Ø rod, 6" length		pc(s)		-
	U-Bolt, 3"Ø w/ nut and washer, ½"Ø rod, 5" length		pc(s)		-
	Expansion Shield, ¾"Ø		pc(s)		-
	Expansion Bolt, ¾"Ø x 4" length		pc(s)		-
	Miscellaneous and Consumables		lot(s)		-
	Devices Works				
	Fire Department Connection, 4" x 2-½" x 2-½"		pc(s)		-
	Floor Control Valve w/ Supervisory Switch		pc(s)		-
	Plumbing Works				
	PVC Pipe 4"Ø		length(s)		-

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				Sub Total	-

14.00	Painting Works				
	Walls,lockers & cabinets		sq.m.		-
	Consumables		lot		-

				Material Cost	-
				Labor Cost	-
				Sub Total	-

I	DIRECT COST:				
	TOTAL MATERIAL COST				-
	TOTAL LABOR COST				-
	TOTAL DIRECT COST			P	-
II	INDIRECT COST:				
a.	OVERHEAD (7% - 11% of DC)	8.00%			-
b.	CONTIGENCIES (0.5% - 3% of DC)	3.00%			-
c.	MISCELLANEOUS (0.5% - 1% of DC)	1.00%			-
d.	CONTRACTOR'S PROFIT	8%			-
e.	TAXES	5.00%	of I + II.a to II.d		-
	TOTAL INDIRECT COST			P	-
	TOTAL PROJECT COST			P	-

Prepared & Submitted By :

Contractor