

REPUBLIC OF THE PHILIPPINES
Department of Science and Technology
Philippine Science High School Soccsksargen Region Campus
Barangay Paraiso, Koronadal City
South Cotabato

Project: **CONSTRUCTION OF CANTEEN AND STUDENT ACTIVITY CENTER BUILDING**
 Subject: **BILL OF QUANTITIES**
 Date: **8-22-2017**
 ABC **P 20,100,000.00**

ITEM	SCOPE OF WORK		QTY	UNIT	UNIT COST	TOTAL COST
1.0	GENERAL REQUIREMENTS					
	1.1	Mobilization/Demobilization	1	lot		
	1.2	Bonds, Insurances & Permits	1	lot		
	1.3	As built plans	1	lot		
	1.4	Temporary Utilities (Electricities & Water)	1	lot		
	1.5	Temporary Facilities				
	1.5.1	Temporary Warehouse	1	lot		
	1.5.2	Field Office/Conference Room	1	lot		
	1.5.3	Temporary Fence/Site Enclosure	1	lot		
	1.6	Surveying & Layouts	1	lot		
	1.7	Testing of Materials				
	1.7.1	Compression Testing (Cylinder, CHB, Mortar)	1	lot		
	1.7.2	Cement (Physical & Chemical Properties)	1	lot		
	1.7.3	Complete Test for Aggregates (Grading,	1	lot		
	1.7.4	Complete Test for Aggregates (Grading, Soundness, Abrasion, Specific Gravity, Unit Weight, Absorption				
	1.7.5	Tensile Properties of Rebars & Steeldecking	1	lot		
	1.7.6	Design/Trial Mix	1	lot		
	1.7.7	Curing Tank & Curing Materials	1	lot		
	1.8	Construction Safety/PPEs	1	lot		
	SUB-TOTAL 1.0					
2.0	LAND DEVELOPMENTS					
	2.1	Entrance Paving blocks	20	sm		
	SUB-TOTAL 2.0					
3.0	EARTHWORKS AND LAND DEVELOPMENTS					
	3.1	EXCAVATION				
	3.1.1	Footing Pits	180	Cu.M.		
	3.1.2	Catch Basins	1	Cu.M.		
	3.2	EARTHFILL				
	3.2.1	Ground Floor	100.00	Cu.M.		
	SUB-TOTAL 3.0					
4.0	STRUCTURAL WORKS					
	4.1	Reinforced Concrete Footing (3500psi)				
	4.1.1	Type 1 Portland Cement	523.00	bags		
	4.1.2	Washed and screened Sand	25.00	Cu.M.		
	4.1.3	Gravel	50.00	Cu.M.		
	4.1.4	boulders	40.00	Cu.M.		
	4.1.5	16mm def bars grade 40	2,160.00	kgs		
	4.1.6	12mm def bars grade 33	43.00	kgs		
	4.1.7	Ga 16 tie wire	62.00	kgs		
	4.1.8	welding rods 6011	11.00	kgs		
	4.2	Reinforced Concrete Wall Footing (3000psi)				
	4.2.1	Type 1 Portland Cement	70.50	bags		
	4.2.2	Washed and screened Sand	4.00	Cu.M.		
	4.2.3	Gravel	8.00	Cu.M.		
	4.2.4	10mm def bars grade 33	316.00	kgs		
	4.2.5	Ga 16 tie wire	8.00	kgs		
	4.2.6	welding rods 6011	2.00	kgs		

	4.3	Reinforced Concrete slab on fill (3000psi)				
	4.3.1	Type 1 Portland Cement	1,256.00	bags		
	4.3.2	Washed and screened Sand	69.80	Cu.M.		
	4.3.3	Gravel	139.60	Cu.M.		
	4.3.4	10mm def bars grade 33	2,910.00	kgs		
	4.3.5	Ga 16 tie wire	81.00	kgs		
	4.3.6	welding rods 6011	16.00	kgs		
	4.4	Reinforced Concrete suspended slab (3500psi)				
	4.4.1	Type 1 Portland Cement	275.00	bags		
	4.4.2	Washed and screened Sand	15.25	Cu.M.		
	4.4.3	Gravel	30.50	Cu.M.		
	4.4.4	10mm def bars grade 33	4,563.00	kgs		
	4.4.5	Ga 16 tie wire	127.00	kgs		
	4.4.6	welding rods 6011	25.00	kgs		
	4.5	Reinforced Concrete Columns (3500psi)				
	4.5.1	Type 1 Portland Cement	687.00	bags		
	4.5.2	Washed and screened Sand	33.00	Cu.M.		
	4.5.3	Gravel	66.00	Cu.M.		
	4.5.4	20mm def bars grade 40	10,530.50	kgs		
	4.5.5	16mm def bars grade 40	1,212.67	kgs		
	4.5.6	10mm def bars grade 33	2,625.50	kgs		
	4.5.7	Ga 16 tie wire	402.00	kgs		
	4.5.8	welding rods 6011	79.00	kgs		
	4.6	Reinforced Concrete Suspended Beams/Tie beams (3500psi)				
	4.6.1	Type 1 Portland Cement	1,158.00	bags		
	4.6.2	Washed and screened Sand	55.50	Cu.M.		
	4.6.3	Gravel	111.00	Cu.M.		
	4.6.4	25mm def bars grade 40	9,248.60	kgs		
	4.6.5	20mm def bars grade 40	8,607.80	kgs		
	4.6.6	16mm def bars grade 40	1,725.00	kgs		
	4.6.7	10mm def bars grade 33	4,713.00	kgs		
	4.6.8	Ga 16 tie wire	680.00	kgs		
	4.6.9	welding rods 6011	134.00	kgs		
	4.7	formworks and scaffoldings				
	4.7.1	2x4x12 coco lumber	500.00	pcs		
	4.7.2	2x3x12 coco lumber	1,500.00	pcs		
	4.7.3	2x2x12 coco lumber	1,500.00	pcs		
	4.7.4	3/8" ord plywood	300.00	pcs		
	4.7.5	1/4" ord plywood	100.00	pcs		
	4.7.6	assorted sixe conc nails	22.00	box		
	4.7.7	cwn 4"	16.00	box		
	4.7.8	cwn 3"	16.00	box		
	4.7.9	cwn 2-1/2"	14.00	box		
	4.7.10	cwn 2"	13.00	box		
	4.7.11	cwn 1-1/2"	10.00	box		
SUB-TOTAL 4.0						
5.0	STEEL WORKS					
	5.1	STEEL TRUSSES (Trusses, Rafters, Girt & Entrance Canopy)				
	5.1.1	6mmx2-1/2"x2-1/2" angle bar	234	lght		
	5.1.2	6mmx3"x3" angle bar	27	lght		
	5.1.3	4.5mmx2"x2" angle bar	221	lght		
	5.1.4	4.5mmx1-1/2"x1-1/2" angle bar	30	lght		
	5.1.5	1.50mm thk 2"x4" Cee Purlins	421	pcs		
	5.1.6	16mm x6m plain round bars	95	length		
	5.1.7	Sag Rod (Plain Round Bar, 10mm)	100	length		
	5.1.9	Turn Buckle (1/2"x1')	156	pcs		
	5.1.10	welding rods (N90)	200	kgs		
	5.2	ROOFING				
	5.2.1	0.5mm ribbed type colorbonded Gi Roofing sheets	1550	L.M.		
	5.2.2	0.5mm spanish colorbonded Gi gutters	55	Length		
	5.2.3	0.5mm colorbonded Gi wall flashing	48	Length		
	5.2.4	0.5mm colorbonded Gi end flashing	7	Length		

		5.2.5	0.5mm colorbonded Gi ridge roll	14.6	Length		
		5.2.6	sealant	10	gals		
		5.2.7	Tek Screw & Rivets	60	Kgs		
		5.2.8	Touch up Paint	4	gal		
		5.3	STAIR HAND RAIL				
		5.3.1	Stainless Pipe (2", S-20)	4	Length		
		5.3.2	Square Bar (12mm)	8	Length		
		5.3.3	flat bar 1/4" x 1"x6m	8	Length		
		5.3.4	Welding Rod (Stainless)	8	Kgs		
		5.4	RAMP HAND RAIL				
		5.4.1	Stainless Pipe (2", S-20)	17	Length		
		5.4.2	Welding Rod (Stainless)	32	Kgs		
			SUB-TOTAL 5.0				
6.0		MASONRY WORKS					
		6.1	CHB WALL				
		6.1.1	CHB 6" (350 psi)	2,314.00	Pcs		
		6.1.2	CHB 4" (350 psi)	17,500	Pcs		
		6.1.3	Cement (40 Kgs)	1487	Bags		
		6.1.4	Washed Sand	84	Cu.M.		
		6.1.5	DRB 10mm, Grade 33	5288	Kgs		
		6.1.6	G.I. Wire (G-16)	90	Kgs		
		6.2	CATCH BASINS				
		6.3.1	CHB 4" (350 psi)	124	Pcs		
		6.3.2	Cement (40 Kgs)	8	Bags		
		6.3.3	Washed Sand	0.5	Cu.M.		
		6.3.4	DRB 10mm, Grade 40	5	Kgs		
		6.3.5	G.I. Wire (G-16)	0.05	Kgs		
		6.3	PLASTERING (25 mm thick)				
		6.3.1	Cement (40 Kgs)	1500	Bags		
		6.3.2	Washed Sand	118	Cu.M.		
			SUB-TOTAL 6.0				
7.0		PAINTING WORKS					
		7.1	WALLS				
		7.1.1	Exterior Wall	880.00	Sq.M.		
		7.1.2	Interior Wall	2,416.00	Sq.M.		
		7.2	CEILING	1,340.00	Sq.M.		
		7.3	WOODEN DOORS AND JAMBS	5.00	sets		
		7.4	CABINETRIES	1.00	lot		
		7.5	ROOF FRAMING & STAIR RAIL				
		7.5.1	Epoxy Primer Gray	20.00	Gal		
		7.5.2	Epoxy reducer	10.00	Gal		
			SUB-TOTAL 7.0				
8.0		TILEWORKS					
		8.1	Indoor floor(0.60mx0.60m) non-skid porcelain tiles	767.00	Sq.M.		
		8.2	alfresco floor(0.40MX0.40m) non-skid outdoor CERAMIC TILES	304.00	Sq.M.		
		8.3	Stairs & Landing (30x30) Ceramic Tiles non skid	28.50	Sq.M.		
		8.4	Comfort rooms wall (30x60) Granite Tiles	167.00	Sq.M.		
		8.5	Comfort rooms floor (30x60) Granite Tiles	60.35	Sq.M.		
			SUB-TOTAL 8.0				
9.0		CEILING					
		9.1	FLAT CEILING (gypsum)				
		9.1.1	Gypsum Board (1/2")	767	Sq.M.		
		9.1.2	Metal Frames	950.47	Sq.M.		
		9.1.3	Accessories	1	Lot		
		9.2	FLAT CEILING (HARDIFLEX)				
		9.2.1	Hardiflex 5mmx4x8	573	Sq.M.		
		9.2.2	Metal Frames	573	Sq.M.		
		9.2.3	Accessories	1	lot		
			SUB-TOTAL 9.0				
10.0		PLUMBING WORKS					
		10.1	FRESH WATER LINES				
		10.1.1	PPR Pipes (1"), PNS 16	14	Length		

		10.1.2	PPR Pipes (3/4"), PNS 16	12	Length		
		10.1.3	PPR Pipes (1/2"), PNS 16	12	Length		
		10.1.4	PPR Pipe Fittings (Elbows, Tees, Reducers, etc)	1	Lot		
		10.1.5	Pipes Solvent Cement	5	Liters		
		10.1.6	Consumables (Teflon, Cement Solvent, etc.)	1	Lot		
	10.2	SANITARY & DRAINAGE LINES					
		10.2.1	PVC Pipe 4", S-40	20	Length		
		10.2.2	PVC Pipe 2", S-40	15	Length		
		10.2.3	PVC Pipe Fittings (Elbows, Wyes, Tees, Cleanouts, etc)	1	Lot		
		10.2.4	Pipes Cement Solvent	4	Liters		
		10.2.5	Construction of Septic Tank	2	lot		
	10.3	DRY STANDPIPE					
		10.3.1	G.I. Pipes (2 1/2", S-40)	1	Length		
		10.3.2	G.I. elbows (2-1/2", S-40)	2	pcs		
		10.3.3	G.I. couplings (2-1/2", S-40)	1	pcs		
		10.3.4	G.I. tee (2-1/2", S-40)	1	pcs		
		10.3.5	fire hose box with hose and nozzle	2	units		
		10.3.6	siamese twin 2-1/2	1	units		
	10.4	STORM DRAIN					
		10.4.1	PVC Pipe (4", S-40)	60	Length		
		10.4.2	PVC coupling (4", S-40)	8	pcs		
		10.4.3	PVC elbow (4", S-40)	30	pcs		
		10.4.4	PVC Pipe Fittings (Elbows, Wyes, Tees, Cleanouts, etc)	1	Lot		
		10.4.5	PVC Pipe 6" S-40	4	length		
	10.6	PLUMBING ACCESSORIES					
		10.6.1	Stainless Floor Drain	26	Pcs		
		10.6.2	paper Holder	11	Pcs		
		10.6.3	soap dispenser	10	Pcs		
		10.6.4	Ball Valves	5	Pcs		
	10.7	PLUMBING FIXTURES					
		10.7.1	Water Closet	11	Sets		
		10.7.2	Counter top Lavatory Vessel type	11	Sets		
		10.7.3	semi pedestal Lavatories	3	Sets		
		10.7.4	Urinal	3	Sets		
		10.7.5	Kitchen Sink	9	sets		
		10.7.6	Accessories & Fittings	1	Lot		
	10.10	MISCELLANEOUS					
		10.9.1	Hangers, Clamps, Consumables	1	Lot		
	10.11	Testing & Commissioning of Plumbing Works			1	Lot	
			SUB-TOTAL 10.0				
11.0	ELECTRICAL & AUXILIARY WORKS						
	11.1	LIGHTING & POWER LAYOUT					
		11.1.1	PVC Conduit 1/2, S-40	150	Length		
		11.1.2	PVC Conduit 1-1/2, S-40	4	Length		
		11.1.3	PVC Conduit 3", S-40	3	Length		
		11.1.4	PVC flexible hose 1/2	3	rolls		
		11.1.5	THHN Copper Wire 10/7	2	rolls		
		11.1.6	THHN Copper Wire 12/7	15	rolls		
		11.1.7	THHN Copper Wire 14/7	18	rolls		
		11.1.8	pvc Junction Box (4X4,)	200	Pcs		
		11.1.9	pvc Utility Box (2x4)	80	Pcs		
		11.1.10	PVC Square BOx with cover	15	Pcs		
		11.1.11	Pull box 4x12x12	2	Pcs		
		11.1.12	wire gutter 5x12x48	1	Pcs		
		11.1.13	Convenience outlet 2 gang	25	set		
		11.1.14	aircon outlet 1 gang	3	set		
		11.1.15	Refrigerator outlet 1 gang	10	set		
		11.1.16	Emergency Light Outlets	16	set		
		11.1.17	LED exit sign outlets	5	set		
		11.1.18	Ceiling Fan Outlets	13	set		
		11.1.19	Exhaust Fan Outlets	5	set		
		11.1.20	Switch 1 gang	6	set		

		11.1.21	Switch 2 gang	7	set		
		11.1.22	Switch 3 gang	10	set		
		11.1.23	Switch 3 gang 3 way	2	set		
		11.1.24	magnetic switch 3HP	2	sets		
		11.1.26	fitting connectors etc.	1	lot		
		11.1.27	tapes , solvent cement	1	lot		
	11.2	LIGHTING FIXTURE					
		11.2.1	droplight	38	Sets		
		11.2.3	LED glass covered Pinlights 4" with 12 watts bulb	189	Sets		
		11.2.4	Exhaust Fan	5	units		
		11.2.5	wall lamps	4	sets		
		11.2.6	ceiling fans	11	units		
		11.2.7	LED illuminated exit signs	5	pcs		
		11.2.8	LED eyeball emergency light	16	sets		
	11.3	BREAKERS AND PANELBOXES					
		11.3.1	PB-1 Panel Box 22 branches industrial type 3phase center main bolt-on; 150main	1	set		
		11.3.2	PB (a-e) Panel Box 6 branches industrial type three phase center main bolt-on; 60main	5	set		
		11.3.3	MDP Panel Box industrial type 3phase center main bolt-on; 200 main;	1	set		
		11.3.4	80mm THHN wire	60	mtrs		
		11.3.5	30mm THHN wire	20	mtrs		
		11.3.6	8mm THHN wire	40	mtrs		
		11.3.7	Entrance Cap	1	pc		
		11.3.8	Male adaptor	1	pc		
		11.3.9	HD secondary rack	1	set		
		11.3.10	U-bolt connector	3	pcs		
		11.3.11	rubber tape	3	rolls		
		11.3.12	Conduits and Fittings	1	lot		
SUB-TOTAL 11.0							
12.0	ELECTRONICS AND COMMUNICATION						
	12.1	CCTV SYSTEM					
		12.1.2	DVR 16 INPUTS HD USB NETWORK OR HIGHER	1	unit		
		12.1.3	1080P INDOOR /OUTDOOR CAMERA OR HIGHER RES	16	unit		
		12.1.4	4 terrabyte harddisk	1	unit		
		12.1.5	32" LED Monitor	2	unit		
		12.1.6	Centralized Power Supply 12v/30amp	1	unit		
		12.1.7	cables wires, siamese etc.	1	lot		
	12.2	FIRE DETECTION AND ALARM SYSTEM					
		12.2.1	Fire Alarm Control Panel 4 zones	1	unit		
		12.2.2	Smoke and Heat Detectors	29	unit		
		12.2.3	Fire Alarm Speaker/Strobe/bell	3	unit		
		12.2.4	Manual Station Break Glass	4	unit		
		12.2.5	Cables Tray, wires, Pipings, etc	1	lot		
	12.3	CATV					
		12.3.1	4 way splitter	2	unit		
		12.3.2	F Connectors wall type	5	unit		
		12.3.3	RGC Cable	1	lot		
	12.4	GROUNDING SYSTEM					
		12.4.1	Ground Bus Bar (1/4"x1"x12")	1	pc		
		12.4.2	Bronze Ground Rod	2	pc		
		12.4.3	AWG no. 10	5	mtrs		
SUB-TOTAL 12.0							
13.0	GLASSWORKS						
	13.1	w1 Fixed reflective 6mm Glass Windows with operable awning window on powder coated aluminum frames 1.00mx5.5m		4	sets		
	13.2	w2 b/2d fixed glass window 6mm reflective glass with 1-3/4x4 tubular on pc-white aluminum white .70mx0.65m		19	sets		

	13.3	w2 a/2c awning glass window 6mm reflective glass with 1-3/4x4 tubular on pc-white aluminum white .70mx0.65m	22	sets		
	13.4	w3 awning window 6mm reflective with 1-3/4x4 tubular on pc-white aluminum white 2.65mx0.6m	10	sets		
	13.5	w4 awning window 6mm reflective with 1-3/4x4 tubular on pc-white aluminum white 1.80mx0.6m	1	set		
	13.6	cw1 glass curtain wall 6mm reflective glass with 1-3/4x4 tubular on pc-white aluminum white 11.40mx5.60m with 1.2mx2.4 ACP inlays	1	set		
	13.7	cw2a fixed glass on aluminum powder coated white frames 6.85mx2.40m	1	set		
	13.8	cw2b powder coated aluminum louvers with screen 4.20x5.6	1	set		
	13.9	cw3 fixed glass window with operable awning on 1-3/4x4 tubular on pc-white aluminum white 3.05mx2.4	1	set		
	13.10	cw4 fixed glass window with operable awning on 1-3/4x4 tubular on pc-white aluminum white 7.1mx2.4m	1	set		
	13.11	cw5 fixed glass window with operable awning on 1-3/4x4 tubular on pc-white aluminum white 4.6mx2.4m	1	set		
	13.12	cl-w6 fixed glass window w on 1-3/4x4 tubular on pc-white aluminum white 9.86mx0.9m	1	set		
	13.13	cl-w1 awning window 6mm clear glass on 1-3/4x4 tubular on pc-white aluminum white with external aluminum tubing grille 1.00mx0.595m	1	set		
	13.14	cl-w2 awning window 6mm clear glass on 1-3/4x4 tubular on pc-white aluminum white with external aluminum tubing grille 1.00mx0.595m	1	set		
	13.15	cl-w3 awning window 6mm clear glass on 1-3/4x4 tubular on pc-white aluminum white with external aluminum tubing grille 1.00mx0.595m	1	set		
	13.16	cl-w4 awning window 6mm clear glass on 1-3/4x4 tubular on pc-white aluminum white with external aluminum tubing grille 1.00mx0.595m	1	set		
	13.17	cl-w5 awning window 6mm clear glass on 1-3/4x4 tubular on pc-white aluminum white with external aluminum tubing grille 1.00mx0.595m	1	set		
	13.18	DW-01 twin leaf swing door with transom and sidelights overall size 2.60mx2.40m	4	set		
	13.19	DW-02 twin leaf swing door with transom and sidelights overall size 5.70mx2.40m	1	set		
	13.20	DW-03 twin leaf swing door 2.00mx2.40m	3	set		
	13.21	glass inserts 0.20x1.00m	11	set		
	13.22	Mirror with plyboard backing (floating) 2.40mx1.20m	1	set		
	13.23	Mirror with plyboard backing (floating) 3.60mx1.20m	1	set		
	13.24	Mirror with plyboard backing (floating) 0.80mx1.20m	3	set		
		SUB-TOTAL 13.0				
14.0	WATERPROOFING					
	14.1	Waterproofing of toilet floors	6	sq.mt		
		SUB-TOTAL 14.0				
15.0	TERMITE CONTROL					
	15.1	Soil Poisoning	143	lm		
		SUB-TOTAL 15.0				
16.0	THERMAL CONTROL					
	16.1	Insulation	1737	sq.mt		
		SUB-TOTAL 16.0				
17.0	ARCHITECTURAL SPECIALTIES					
	17.1	Modular toilet cabinets made from laminated phenolic board on an stainless steel tubular	8	Sets		
	17.2	Sashworks				
	17.2.1	D4 Hollow Core Laminated flushed Door 0.90mx2.10m with 2"x6" wooden jamb	1	set		
	17.2.2	D6 Hollow Core Laminated double swing flushed Door 0.80x2.10	2	sets		
	17.3	UPVC Door				
	17.3.1	D7 UPVC Door with louvers 0.70x2.10m with jamb	2	sets		
	17.4	Metal Flush Door 2 hr fire rated				

		17.4.1	D5 metal flush door 2 hr fire rated with louvers and metal jamb	2	sets		
	17.5	Door Lockset					
		17.5.1	Lever Type Satin Finished Door Lockset	5	sets		
		SUB-TOTAL 17.0					
18.0	FURNITURES, CABINETS & COUNTERS						
	18.1	CABINETS AND COUNTERS					
		18.1.1	wall counter dining area	22	lm		
		18.1.2	sales counter granite top 0.60x3.00	5	unit		
		18.1.3	concrete based L shaped Kitchen Counter with granite Tiles 60cm width	5	unit		
		18.1.4	dish wash counter granite tiles finish 0.60x1.5m	5	unit		
		18.1.5	dish wash counter granite tiles finish 0.60x6.0m	1	unit		
		18.1.6	Lavatory counters granite tiles top 0.60x4.0m	2	unit		
		18.1.7	Lavatory counters granite tiles top 0.60x5.0m	1	unit		
		18.1.8	Beverage counter	1	lot		
		SUB-TOTAL 18.0					
19.0	HVAC						
	19.1	Window type Aircon 2.5HP		3	Sets		
	19.2	window type aircon cages		3	Sets		
	19.3	Ceiling Fan		9	unit		
	19.4	Giant Ceiling Fan		2	pcs		
	19.5	Exhaust Fans		5	Sets		
		SUB-TOTAL 19.0					
		GRAND TOTAL					