



PROJECT: **CONSTRUCTION OF COMMUNAL PEN FOR CHBU/PCC-USM**
 LOCATION: **Kabacan North, Cotabato**
 SUBJECT: **Bill of Materials**

B. PROGRAM OF WORKS					
	Particulars	Quantity	Unit	Unit Rate	Total Cost
ITEM	QTY/L QTY/PARTICULARS Unit/Blank	QTY/DAYS	UNIT	UNIT RATE	TOTAL COST
I. GENERAL REQUIREMENTS					
	Quantity = 1.00 lot				
01	Mobilization/Demobilization	1.00	lot		
01	Permits, Clearances, Material Testing	1.00	lot		
02	Tempfacil	1.00	lot		
02	Safety and Health	1.00	lot		
02	Project Billboard with Frame(COA Format and Size)	1.00	lot		
02	Cad Asbuilt of Project/Variation Shopdrawings	1.00	lot		
01	- Not Subjected to OCM and Profit Mark-up				
02	- Not Subjected to OCM Mark-up				
				Total Cost	
				Unit Cost	/lot
II. Clearing, Sub Grade and Leveling Preparation					
	Quantity = 1,100.00 sq.m.				
1) Labor					
1	Skilled	4.00	days		
3	Laborers	4.00	days		
2) Material					
1	Grader Rental	8.00	hrs		
1	Vibratory Roller Rental	8.00	hrs		
1	Watering Truck Rental	3.00	hrs		
				Total Cost	
				Unit Cost	/sq.m.
III. EARTHWORKS					
	Quantity = 1.00 lot				
1) Labor					
	Excavation				
	Skilled Labor	6.00	days		
	Unskilled Labor	6.00	days		
	Select Fill				
1) Materials					
	Earthfill	35.00	cu.m.		
	Gravel (G-3/4)	110.00	cu.m.		
2) Labor					
	Skilled Labor	8.00	days		
	Unskilled Labor	8.00	days		
				Total Cost	
				Unit Cost	/lot



B. PROGRAM OF WORKS				
Particulars	Quantity	Unit	Unit Rate	Total Cost
IV REINFORCED CONCRETE WORKS				
Quantity =	158.71	cu.m.		
1) Materials				
Portland Cement (40KG)	1,450	bags		
Sand (S1)	82	cu.m.		
Gravel (G-3/4)	160	cu.m.		
Rebars				
16 mm Ø x 6.0 m	2388	kgs.		
12 mm Ø x 6.0 m	392.00	kgs.		
10 mm Ø x 6.0 m	3,681.00	kgs.		
	6,461.00	kgs.		
G.I. Tie Wire #16	33.00	kgs.		
1/4" Plywood Form Board	29.00	pcs.		
Form Lumber (coco)	605.00	bd.ft.		
Assorted CWN	27.00	kgs.		
Equipment				
2-Bagger Concrete Mixer	20.00	days		
2- Concrete Vibrator	20.00	days		
2) Labor				
a. Pouring of Concrete				
Skilled Labor	31.00	days		
Unskilled Labor	31.00	days		
b. Rebars (cut, bend & place)				
Skilled Labor	22.00	days		
Unskilled Labor	22.00	days		
c. Forms (fab.,installation & removal)				
Skilled Labor	12.00	days		
Unskilled Labor	12.00	days		
			Total Cost	
			Unit Cost	/cu.m.
V. MASONRY WORKS				
Quantity =	178.20	sqm		
1) Materials				
4" thk. Chb	2,450	pcs.		
Sand (S1)	19	cu.m.		
Portland Cement (40KG)	178	bags		
10 mm x 6.0 m rebars	518	kgs.		
No. 16 G.I Tie wire	16	kgs.		
2) Labor				
Skilled Labor	12.00	days		
Unskilled Labor	12.00	days		
			Total Cost	
			Unit Cost	/sqm



B. PROGRAM OF WORKS				
Particulars	Quantity	Unit	Unit Rate	Total Cost
VI. METAL STRUCTURE				
Quantity =	1.00	lot		
1) Materials				
Trusses				
50X150X6mmx6mm thk Channel Bar	44.00	pcs		
50X200X6mmx6mm thk Channel Bar	29.00	pcs		
50x50x3mm Angular bar	253.00	kgs.		
1.5x 50x 150mm C- Purlins	143.00	pcs.		
10mm sagrods, tension rods	97.00	kgs.		
12mm cross bracing	250.00	kgs.		
12mm turn buckle	45.00	pcs.		
Welding Rod	105.00	kgs.		
Red Oxide	10.00	gals		
Paint Thinner	6.00	gals		
Steel Column				
300 x 300 x 16mm base plate	383.00	kgs.		
200 x 300 x 16mm base plate support	765.00	kgs.		
20mm diameter anchor bolts w/ nuts and washer	135.00	kgs.		
300 x 300 x16mm thk MS plate	288.00	kgs.		
150mm diam.x 6mm thk G.I. Pipe	10.00	pcs.		
Steel Railing and Gate				
50mm diam.G.I Pipe sched. 40	203.00	pcs.		
Welding Rod	96.00	kgs.		
Hinges	51.00	pcs.		
2) Labor				
Skilled Labor	26.00	days		
Unskilled Labor	26.00	days		
			Total Cost	
			Unit Cost	/lot
VII. PRE-PAINTED METAL SHEET				
Quantity =	588.00	sq.m.		
1) Materials				
Pre-painted Metal Roofing Sheet	618.00	sq.m		
Pre-painted Ridge Roll	20.00	pcs		
Pre-painted Gutter	40.00	pcs.		
Teck Screw Metal	1500.00	pcs.		
Roof Sealant	4.00	qrtz		
Blind Rivets	5.00	boxes		
2) Labor				
Skilled Labor	17.00	days		
Unskilled Labor	17.00	days		
			Total Cost	
			Unit Cost	/sq.m.



B. PROGRAM OF WORKS				
Particulars	Quantity	Unit	Unit Rate	Total Cost
VIII. PLUMBING				
Quantity =	1.00	lot		
1) Materials				
WATER LINES				
Drinking Trough				
PPR Elbow 3/4"	25.00	pcs		
PPR Tee 1 x 3/4"	3.00	pcs		
PPR Gate valve 1"	1.00	pc		
PPR Tee 3/4"	10.00	pcs.		
Shower Sprinkler				
PPR Tee 1 x 3/4"	3.00	pcs		
PPR Gate valve 3/4"	2.00	pcs		
PPR Elbow adopter 3/4"	10.00	pcs		
PPR Tee 3/4" x 1/2"	20.00	pcs		
Shower Head with Ball valve 1/2"	20.00	pcs		
PPR Coupling 3/4"	31.00	pcs		
PPR Coupling 1"	5.00	pcs		
Teflon Tape big	10.00	pcs		
Metal C Clamp 3 x 20mm	20.00	pcs		
PPR Pipe 1" Pn40	12.00	pcs		
PPR Pipe 3/4" Pn40	26.00	pcs		
Floaterswitch	10.00	pcs		
3/4 x 1/2" bushing	10.00	pcs		
2) Labor				
Skilled Labor	8.00	days		
Unskilled Labor	8.00	days		
Total Cost				
Unit Cost				/lot

IX. ELECTRICAL

Quantity = 1.00 lot

1) Materials

Panel Board, 50Amp 220 V, 2P, main CB	1	unit
4 Holes branches, Nema Closure branches circuit breaker		
20 AT Ckt breaker	2	pair
30 AT Ckt breaker	2	pairs
Wires		
8.0 mm2 THHN Wires	40	meters
3.5 mm2 THHN Wires	1	rolls
2.0 mm2 THHN Wires	3	rolls
Pipes and Fittings		
PVC Pipe 1/2"	150.00	pcs
PVC Pipe 3/4"	2.00	pcs
Entrance Cap 3/4"	1.00	pcs
Utility Box	6.00	pcs
4 x 4 Junction Box	6.00	bag



B. PROGRAM OF WORKS				
Particulars	Quantity	Unit	Unit Rate	Total Cost
<i>Devices</i>				
15 Watts LED bulb	15.00	pcs		
Three Gang Switch	3.00	sets		
Duplex Convenience Outlet (weather proof)	8.00	sets		
Duplex Convenience Outlet (drop type)	4.00	sets		
E-27 Receptacle 4"	15.00	pcs		
Electrical Tape	5.00	pcs		
2) Labor				
Skilled Labor	7.00	days		
Unskilled Labor	7.00	days		
			Total Cost	
			Unit Cost	/lot
DIRECT COST				
a. MATERIAL COST				
b. LABOR COST				
c. GENERAL REQUIREMENTS 01				
d. GENERAL REQUIREMENTS 02				
e. TOTAL DIRECT COST			(a+b+c+d)	
INDIRECT COST				
f. O.C.M.			10% (a+b)	
g. PROFIT			10% (a+b+d)	
h. TAX			5% (e+f+g)	
i. TOTAL INDIRECT COST			(f+g+h)	
TOTAL ESTIMATED COST			(e+i)	