Department of Agriculture
PHILIPPINE CARABAO CENTER
CERTIFIED:ISO 9001|ISO 14001|ISO 45001

PROJECT: **CONSTRUCTION OF BUNKER SILO AND HAYBARN FOR CHBU/PCC-MLPC**
LOCATION: **Kalawit, Zamboanga del Norte**
SUBJECT: **Bill of Materials**

B. P R O G R A M O F W O R K S

Particulars		Quantity	Unit	Unit Rate	Total Cost
I. GENERAL REQUIREMENTS					
Quantity = 1.00 lot					
O1	Mobilization/Demobilization	1.00	lot		
O1	Permits, Clearances, Material Testing	1.00	lot		
O2	Temfacil	1.00	lot		
O2	Safety and Health	1.00	lot		
O2	Project Billboard with Frame(COA Format and Size)	1.00	lot		
O2	Cad Asbuilt of Project/Variation Shopdrawings	1.00	lot		
O1 -	Not Subjected to OCM and Profit Mark-up				
O2 -	Not Subjected to OCM Mark-up				
				Total Cost	
				Unit Cost	**/lot**
II. EARTHWORKS					
Quantity = 180.19 cu.m.					
1) Labor					
Excavation					
	Skilled	7.00	days		
	Laborers	7.00	days		
Select Fill					
1) Materials					
	Earthfill	90.00	cu.m.		
	Gravel (G-3/4)	47.23	cu.m.		
	Laborers	7.00	days		
				Total Cost	
				Unit Cost	**/cu.m.**

B. P R O G R A M O F W O R K S				
Particulars	*Quantity*	*Unit*	*Unit Rate*	*Total Cost*
III. REINFORCED CONCRETE WORKS				
Quantity = 149.00 cu.m.				
1) Materials				
Portland Cement (40KG)	*1,342*	*bags*		
Sand (S1)	*74*	*cu.m.*		
Gravel (G-3/4)	*149*	*cu.m.*		
Polyethylene Plastic Sheet	*2*	*rolls*		
Rebars				
16 mm Ø x 6.0 m	*2,455.32*	*kgs.*		
12 mm Ø x 6.0 m	*4,150.51*	*kgs.*		
10 mm Ø x 6.0 m	*1,151.32*	*kgs.*		
G.I. Tie Wire #16	*60.00*	*kgs.*		
1/4" Plywood Form Board	*128.00*	*pcs.*		
Form Lumber (coco)	*2,587.28*	*bd.ft.*		
Assorted CWN	*20.00*	*kgs.*		
Equipment (Rental)				
2-Bagger Concrete Mixer	*20.00*	*days*		
2- Concrete Vibrator	*20.00*	*days*		
2) Labor				
a. Pouring of Concrete				
Skilled	*25.00*	*days*		
Laborers	*25.00*	*days*		
b. Rebars (cut, bend & place)				
Skilled	*15.00*	*days*		
Laborers	*15.00*	*days*		
c. Forms (fab.,installation & removal)				
Skilled	*10.00*	*days*		
Laborers	*10.00*	*days*		
			Total Cost	
			Unit Cost	***/cu.m.***
IV. MASONRY WORKS				
Quantity = 180.00 sqm				
1) Materials				
6" thk. Chb	*2,166*	*pcs.*		
Sand (S1)	*24*	*cu.m.*		
Portland Cement (40KG)	*218*	*bags*		
10 mm x 6.0 m rebars	*433*	*kgs.*		
No. 16 G.I Tie wire	*8*	*kgs.*		
2) Labor				
Skilled	*10.00*	*days*		
Laborers	*10.00*	*days*		
			Total Cost	
			Unit Cost	***/sqm***

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B. P R O G R A M O F W O R K S				
Particulars	Quantity	Unit	Unit Rate	Total Cost
V. METAL STRUCTURE				
Quantity = 12705.69 kg				
1) Materials				
Trusses				
50x50x6mm Angular bar	70.00	pcs		
50x50x3mm Angular bar	134.00	pcs		
32x32x3mm Angular bar	221.00	pcs		
1.5x 50x 150mm C- Purlins	106.00	pcs		
12mm sagrods, tension rods	14.00	pcs		
12mm cross bracing	36.00	pcs		
12mm turn buckle	40.00	pcs		
Welding Rod	75.00	kgs.		
Red Oxide	7.00	gals		
Paint Thinner	4.00	gals		
Steel Column				
300 x 300 x 16mm base plate	228.95	kgs.		
200 x 300 x 16mm base plate support	640.54	kgs.		
20mm diameter anchor bolts w/ nuts and washer	73.04	kgs.		
200mm diam.x 6mm thk G.I. Pipe	6.00	pcs.		
150mm diam.x 6mm thk G.I. Pipe	9.00	pcs.		
Welding Rod	25.00	kgs.		
Red Oxide	2.00	gals		
Paint Thinner	1.00	gals		
Wall (Girt)				
1.5x 50x 75mm C- Purlins	47.00	pcs		
63x63x5mm Angular Bar	2.00	pcs		
Anchor Rod with Nuts and Washer (Sagrod)	65.63	kgs.		
Welding Rod	5.00	kgs.		
Rental				
4sets H-Frame (Scaffolding Set)	22.00	days		
2) Labor				
Skilled	22.00	days		
Laborers	22.00	days		
			Total Cost	
			Unit Cost	/kg

B. P R O G R A M O F W O R K S				
Particulars	Quantity	Unit	Unit Rate	Total Cost
VI. PRE-PAINTED METAL SHEET				
Quantity = 754.00 sq.m.				
1) Materials				
a. Roofing				
Pre-painted Metal Roofing Sheet 0.5mm (Rib-Type)(Blue)	544.00	sq.m		
Pre-painted Ridge Roll	14.00	pcs		
Pre-painted Gutter	27.00	pcs.		
Pre-painted Flashing	13.00	pcs.		
Teck Screw Metal	2500.00	pcs.		
Roof Sealant	3.00	qrtz		
Blind Rivets	4.00	boxes		
b. Wall Cladding				
Pre-painted Metal Roofing Sheet 0.5mm (Rib-Type)(Blue)	210.00	sq.m		
Pre-painted Flashing	6.00	pcs.		
Teck Screw Metal	1500.00	pcs.		
Roof Sealant	2.00	qrtz		
Blind Rivets	3.00	boxes		
2) Labor				
Skilled Labor	13.00	days		
Unskilled Labor	13.00	days		
			Total Cost	
			Unit Cost	**/sq.m.**
VII. PLUMBING				
Quantity = 1.00 lot				
1) Materials				
PVC Pipe 4" Sch. 40	50.00	pcs		
PVC Elbow 4"	36.00	pcs		
PVC Coupling 4"	24.00	pcs		
PVC Solvent Cement	2.00	can		
2) Labor				
Skilled	6.00	days		
Laborers	6.00	days		
			Total Cost	
			Unit Cost	**/lot**

B. P R O G R A M O F W O R K S				
Particulars	Quantity	Unit	Unit Rate	Total Cost
VIII. ELECTRICAL				
Quantity = 1.00 lot				
1) Materials				
Solar LED Floodlight (150 Watts)	8	units	3,000.00	
2) Labor				
Skilled	5.00	days	600.00	
Laborers	5.00	days	500.00	
			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.	15% (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)**	