



Project	Repair and Upgrading of Roof Canopy at the Student's Queuing Area at University Registrar and Admission Division									
Owner	BENGUET STATE UNIVERSITY									
Location	BSU Compound, Km. 5 Balili, La Trinidad, Benguet									
ITEM No.	Detailed Estimates									
I. GENERAL REQUIREMENTS and SITE WORKS										
a.	Mobilization/Demobilization		1 LOT							
1	material & description		quantity		unit cost		amount			
2	labor		no.		daily rate		amount			
3	equipment (rental based on ACEL rates)		unit		daily rental		no of days		amount	
			output rate				days to complete			
			Elf Truck 1		unit /day				-	
4	Total Direct Cost (1 + 2 + 3)						-			
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)						of item 4			
6	Contractor's Profit						of item 4			
7	Tax						7% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 +7)						Php		-	
										cost per item
b.	Project Billboard		1 LOT							
1	material & description		quantity		unit cost		amount			
			Printed Tarpulin (8ft x 8ft)		5.76 sq.m. /sq.m.				-	
			Ordinary Plywood		2 pcs /pc				-	
			Good lumber		39.5 bd.ft. /bd.ft				-	
			Assorted CWN		1 kg /kg				-	
2	labor		no.		daily rate		amount		-	
			Skilled laborer		1 man/hr.					
			Unskilled laborer		1 man/hr.					
3	equipment (rental based on ACEL rates)		unit		daily rental		no of days		amount	
			output rate				days to complete			
			minor tools (10% of Labor Cost)						-	
4	Total Direct Cost (1 + 2 + 3)						-			
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)						of item 4		-	
6	Contractor's Profit						of item 4		-	
7	Tax						of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 +7)						Php		-	
										cost per item
c.	Occupational Safety and Health Program		1 LOT							
1	material & description		quantity		unit cost		amount			
			assorted warning and safety signages		1 lot /lot				-	
			canvass (for jobsite perimeter enclosure/fencing)		1 roll /roll				-	
			vest		8 pcs. /pc.				-	
			safety shoe/ boots		8 pcs. /pc.				-	
			safety gloves		8 pcs. /pc.				-	
			skull guard/ hard hat		8 pcs. /pc.				-	
			safety harnes		8 pcs. /pc.				-	
			first aid kit		1 lot /lot				-	
			fire extinguisher, 5lbs. (refill)		1 unit /unit				-	
2	labor		no.		daily rate		amount		-	
			Part time Safety Officer		1 /day					
3	equipment (rental based on ACEL rates)		unit		daily rental		no of days		amount	
			output rate				days to complete			
			minor tools (10% of Labor Cost)						-	
4	Total Direct Cost (1 + 2 + 3)						-			
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)						of item 4		-	
6	Contractor's Profit						of item 4		-	
7	Tax						of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 +7)						Php		-	
										cost per item



II. EARTHWORKS						
a. General Excavation- Common Soil		1.536 cu.m.				
1 material & description		quantity		unit cost		amount
2 labor		no.	daily rate		amount	-
Skilled laborer		1	/day		-	
Unskilled laborer		2	/day		-	
3 equipment (rental based on ACEL rates)		unit	daily rental		no of days	amount
		output rate		days to complete		
minor tools (10% of Labor Cost)		-				
4 Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)				of item 4	-	
6 Contractor's Profit				of item 4	-	
7 Tax				7% of item 4 + 5 + 6	-	
8 Total Unit Cost (4 + 5 + 6 + 7)				Php	-	cost per item
b. Embankment from Structure Excavation		1.536 cu.m.				
1 material & description		quantity		unit cost		amount
2 labor		no.	daily rate		amount	-
Skilled laborer		1	/day		-	
Unskilled laborer		2	/day		-	
3 equipment (rental based on ACEL rates)		unit	daily rental		no of days	amount
		output rate		days to complete		
minor tools (10% of Labor Cost)		-				
4 Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)				of item 4	-	
6 Contractor's Profit				of item 4	-	
7 Tax				7% of item 4 + 5 + 6	-	
8 Total Unit Cost (4 + 5 + 6 + 7)				Php	-	cost per item
III. PLAIN AND REINFORCED CONCRETE WORKS						
a. Structural Concrete (Class A 3000 psi at 28 days)		1.10 cu.m.				
1 material & description		quantity		unit cost		amount
cement		10.00	bags	/bag		-
sand		0.60	cu.m.	/cu.m.		-
gravel		1.00	cu.m.	/cu.m.		-
2 labor		no.	daily rate		no of days	amount
		production rate		cu.m./manhour		days to complete
Leadman		1	/day		-	
Skilled laborer		1	/day		-	
Unskilled laborer		1	/day		-	
3 equipment (rental based on ACEL rates)		unit	daily rental		no of days	amount
		output rate		days to complete		
minor tools (10% of Labor Cost)		-				
4 Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)				of item 4	-	
6 Contractor's Profit				of item 4	-	
7 Tax				7% of item 4 + 5 + 6	-	
8 Total Unit Cost (4 + 5 + 6 + 7)				Php	-	cost per item
b. Reinforcing Steel of Reinforced Concrete		34.65 kgs.				
10mm diameter by 6000mm reinforcing steel bar (grade 33)		5.20	kgs.	/kg.		-
16mm diameter by 6000mm reinforcing steel bar (grade 40)		29.45	kgs.	/kg.		-
No. 16 G.I. Tire Wire		1.00	kgs.	/kg.		
2 labor		no.	daily rate		no of days	amount
		production rate		kg./manhour		days to complete
Leadman		1	/day		-	
Skilled laborer		1	/day		-	
Unskilled laborer		1	/day		-	



3 equipment (rental based on ACEL rates)		unit	daily rental	no of days	amount	-
		output rate		days to complete		
minor tools (10% of Labor Cost)						
4 Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6 Contractor's Profit		of item 4		-		
7 Tax		7% of item 4 + 5 + 6		-		
8 Total Unit Cost (4 + 5 + 6 + 7)		Php	-	cost per item		
c. Formworks and Falseworks		2.57 sqm.				
1 material & description		quantity	unit cost	amount		
2"x 3" Good Lumber		6 bd.ft.	/bd.ft	-		
19mm x 1.2m x 2.4m Phenolic Board (3 uses)		1 pcs.	/pc.	-		
assorted CWN		1 kg.	/kg.	-		
2 labor		no.	daily rate	no of days	amount	-
		production rate		sq.m./manhour		
				days to complete		
Skilled laborer		2	/day	-		
Unskilled laborer		4	/day	-		
3 equipment (rental based on ACEL rates)		unit	daily rental	no of days	amount	-
Area 142m ²		output rate		m ² / 14days		
				days to complete		
H-Frame 1.7m x 1.2m, set		40 sets		0		
(2pcs. H-Frames, 4pcs diagonal cross braces, 4pcs horizontal braces & 8pcs joint pins)						
Shoring Jack, 3.8m full extension		62 pcs.		0		
Adjustable U-head Jack, 0.60m		80 pcs.		0		
Adjustable Base Jack, 0.60m		80 pcs.		0		
1-½" G.I. Pipe x 6.0m		62 pcs.		0		
1-½" G.I. Pipe x 4.0m		16 pcs.		0		
1-½" G.I. Pipe x 3.0m		32 pcs.		0		
1-½" G.I. Pipe x 1.0m		216 pcs.		0		
Tie Rod x 0.60m		278 pcs.		0		
Round Wing Nut		558 pcs.		0		
minor tools (10% of Labor Cost)						
4 Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6 Contractor's Profit		of item 4		-		
7 Tax		7% of item 4 + 5 + 6		-		
8 Total Unit Cost (4 + 5 + 6 + 7)		Php	-	cost per item		
III. STEELWORKS						
a. Steel Trusses and G.I Pipes		770.14 l.m.				
1 material & description		quantity	unit cost	amount		
4" diameter G.I. Pipe schedule 40		4.00 pcs.	/pc.	-		
2" x 2 " x 1/4 " thick Angle Bar		15.00 pcs.	/pc.	-		
1 1/2" x 1 1/2 " x 1/4 " thick Angle Bar		60.00 pcs.	/pc.	-		
1.2mm x 2" x 3" C-Purlins		60.00 pcs.	/pc.	-		
150mm x 150mm x 6mm steel base plate		9.00 pcs.	/pc.	-		
anchor rods, nuts and bolts		45.00 set	/set	-		
welding rod		21.00 kg.	/kg.	-		
consumables (5% of Material Cost)		1 lot	/lot	-		
2 labor		no.	daily rate	no of days	amount	-
		production rate		lm/manhour		
				days to complete		
Leadman		1	/day	-		
Skilled laborer		1	/day	-		
Unskilled laborer		1	/day	-		
3 equipment (rental based on ACEL rates)		unit	daily rental	no of days	amount	-
Welding Machine			/day	-		
minor tools (10% of Labor Cost)						
Total Direct Cost (1 + 2 + 3)				-		
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6 Contractor's Profit		of item 4		-		
7 Tax		7% of item 4 + 5 + 6		-		
8 Total Unit Cost (4 + 5 + 6 + 7)		Php	-	cost per item		



IV. ROOFING WORKS					
		***roof area	217.06	sqm.	
a. Roofing					
1	material & description	quantity	unit cost	amount	-
	.80mm x 2.66' x 8' (.81 m x 2.44 m) Rib-type Polycarbonate Roofing	130.00 pcs.	/pc.	-	
	consumables (5% of Material Cost)	1 lot	/lot	-	
2	labor	no.	daily rate	no of days	amount
	production rate		days to complete		
	Leadman	1	/day	-	
	Skilled laborer	1	/day	-	
	Unskilled laborer	2	/day	-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount
	output rate		days to complete		
	minor tools (10% of Labor Cost)			-	
4	Total Direct Cost (1 + 2 + 3)			-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-
6	Contractor's Profit			of item 4	-
7	Tax			7% of item 4 + 5 + 6	-
8	Total Unit Cost (4 + 5 + 6 +7)			Php	- cost per item
V. PAINTING WORKS					
		63.68	sqm.		
a. Painting					
1	material & description	quantity	unit cost	amount	-
	Red Oxide	15.92 gal.	/gal.	-	
	Semi-Gloss Latex (2 coats only)	15.92 gal.	/gal.	-	
	consumables (5% of Material Cost)	1 lot	/lot	-	
2	labor	no.	daily rate	no of days	amount
	production rate		m ² /manhour	days to complete	
	Leadman	1	/day	-	
	Skilled laborer	1	/day	-	
	Unskilled laborer	1	/day	-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount
	output rate		m ² /unithour	days to complete	
	minor tools (10% of Labor Cost)		/day	-	
4	Total Direct Cost (1 + 2 + 3)			-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-
6	Contractor's Profit			of item 4	-
7	Tax			7% of item 4 + 5 + 6	-
8	Total Unit Cost (4 + 5 + 6 +7)			Php	- cost per item
VI. CONCRETE PAVEMENT WORKS					
		90.68	sqm.		
a. Removal of Existing Driveway Pavement					
1	material & description	quantity	unit cost	amount	-
2	labor	no.	daily rate	no of days	amount
	production rate		m ² /manhour	days to complete	
	Leadman	1	/day	-	
	Skilled laborer	1	/day	-	
	Unskilled laborer	2	/day	-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount
	output rate		m ² /unithour	days to complete	
	minor tools (10% of Labor Cost)		/day	-	
4	Total Direct Cost (1 + 2 + 3)			-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-
6	Contractor's Profit			of item 4	-
7	Tax			7% of item 4 + 5 + 6	-
8	Total Unit Cost (4 + 5 + 6 +7)			Php	- cost per item



Replacement of Existing and addition of Driveway Pavement					
b. and driveway end ramp		142 sqm.			
1 material & description	quantity	unit cost	amount		
200mm x 100mm x 65mm thick brick red brick stone pavers (wave)	7100 pcs.	/pc.	-		
cement	7.80 bags	/bag	-		
sand	3.70 cu.m.	/cu.m.	-		
gravel	7.10 cu.m.	/cu.m.	-		
consumables (5% of Material Cost)	1 lot	/lot	-		
2 labor	no.	daily rate	no of days	amount	
production rate		m ² /manhour	days to complete		
Leadman	1	/day		-	
Skilled laborer	1	/day		-	
Unskilled laborer	1	/day		-	
3 equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	
output rate		m ² /unithour	days to complete		
minor tools (10% of Labor Cost)		/day		-	
4 Total Direct Cost (1 + 2 + 3)				-	
5 OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-	
6 Contractor's Profit		of item 4		-	
7 Tax		7% of item 4 + 5 + 6		-	
8 Total Unit Cost (4 + 5 + 6 + 7)		Php		-	cost per item
Total Project Cost			Php		-
Submitted by:					
Name of Contractor/Bidder					

reference/s DPWH - BOC Cost Estimation for Low Rise Buildings issued/receipt September 27, 2019 DPWH Standard of Specifications, vol.ii & iii, 1995
edition DPWH - BOC Data on various building structure previously constructed Construction Manpower Development Foundation Construction Estimate
Handbook by Velasco Construction Estimate Handbook by Max Fajardo