CEO-003-0

REPUBLIC OF THE PHILIPPINES
CITY OF ILAGAN
Province of Isabela

PROGRAM OF WORK

Project: **Concreting of Road**

Location: **City Civic Center, Alibagu, City of Ilagan, Isabela**

ROAD:
PCCP, Length: **405.00 m**
PCC Pavement Width : **12.80 m**
PCCP Thickness : **0.25 m**

Appropriation: **Php 10,000,000.00**

DESCRIPTION OF WORKS TO BE DONE	% OF TOTAL	EQUIPMENT DESCRIPTION	EQUIPMENT REQUIRED
I. ROADS	100.00%	**PLEASE SEE ATTACHED**	
TOTAL	**100.00%**		

ESTIMATED COST OF THE PROJECT

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL ESTIMATED COST
B.9	Mobilization/Demobiliztion	1.00	lot	21,000.00	21,000.00
105	Sub-grade Preparation	5,184.00	sq.m	15.76	81,699.84
201	Aggregate Base Course	1,036.80	cu.m	994.53	1,031,132.59
311	Portland Cement Concrete Pavement(Plain), Thickness = 250mm	1,296.00	cu.m	6,841.17	8,866,156.32
				TOTAL	**Php 9,999,988.75**
				SAY	**Php 10,000,000.00**

Prepared by :

ENGR. JEFFERSON V. GARCIA
Engineer II

Checked By :

ENGR. GARRY D. CABANILLA
City Engineer

Recommending Approval :

ENGR. CRISANTA D. CONCEPCION
OIC - City Planning & Dev't. Coordinator

Approved :

HON. JOSEMARIE L. DIAZ, DMD, MBA
City Mayor

DETAILED UNIT PRICE ANALYSIS

Project: **Concreting of Road**
Location: **City Civic Center, Alibagu, City of Ilagan, Isabela**

Item No. : B.9
Description : **Mobilization/Demobilization**

Quantity = **1.00**
Unit = lot

A.	Name and Capacity of Equipment (Operated)	No. of Units	No. Days	Rate/Day	Total Cost (Pesos)
					P 20,000.00
	Lowbed	1			
	Road Grader, G710A	1			
	Backhoe				
	Vibratory Roller	1			
	A. SUB-TOTAL , EQUIPMENT			**20,000.00**	**P 20,000.00**

B.	Designation of Personnel	No. of Men	No. Days	Rate/Day	Total Cost (Pesos)
	Man-Days				
	B. SUB-TOTAL, LABOR - MD			-	**P -**

C.	Name and Description	Qty	Unit	Unit Cost	Total Cost (Pesos)
				P	P
	C. SUB-TOTAL, MATERIAL			-	**P -**

SUMMARY:

A	Equipment		P 20,000.00
B	Labor		P -
C	Materials		P -
D	**TOTAL DIRECT COST**	(A+B+C)	P **20,000.00**
	DIRECT UNIT COST	D/Quantity	**20,000.00**
E	OCM/Profit	20% of D	P -
F	VAT	5% (D+E)	P 1,000.00
G	Total Cost	(D+E+F)	P **21,000.00**
H	**UNIT COST**	(G/Quantity)	**21,000.00**

DETAILED UNIT PRICE ANALYSIS

Project: **Concreting of Road**
Location: **City Civic Center, Alibagu, City of Ilagan, Isabela**

Item No. : 105
Description : **Subgrade Preparation (Common Material)**

Quantity = **5,184.00**
Unit = sq.m

A.	Name and Capacity of Equipment (Operated)	No. of Units	No. Days	Rate/Day	Total Cost (Pesos)
	Motorized Road Grader(140 hp),GM0A	1	1.00	P 22,599.20	P 22,599.20
	A. SUB-TOTAL , EQUIPMENT			**4.36**	**P 22,599.20**

B.	Designation of Personnel	No. of Men	No. Days	Rate/Day	Total Cost (Pesos)
	Man-Days				
	Foreman	1	10.00	P 743.84	P 7,438.40
	Skilled Laborer	1	10.00	P 537.76	P 5,377.60
	Unskilled Laborer	8	10.00	P 414.80	P 33,184.00
	B. SUB-TOTAL, LABOR - MD			**8.87**	**P 46,000.00**

C.	Name and Description	Qty	Unit	Unit Cost	Total Cost (Pesos)
				P	P
	C. SUB-TOTAL, MATERIAL			**-**	**P -**

SUMMARY:

A	Equipment		P	22,599.20
B	Labor		P	46,000.00
C	Materials		P	-
D	**TOTAL DIRECT COST**	(A+B+C)	P	**68,599.20**
	DIRECT UNIT COST	D/Quantity		**13.23**
E	OCM/Profit	20% of D	P	9,202.65
F	VAT	5% (D+E)	P	3,890.09
G	Total Cost	(D+E+F)	P	**81,691.94**
H	**UNIT COST**	(G/Quantity)		**15.76**

DETAILED UNIT PRICE ANALYSIS

Project: **Concreting of Road**

Location: **City Civic Center, Alibagu, City of Ilagan, Isabela**

Item No. : 201
Description : **Aggregate Base Course**

Quantity = **1,036.80**
Unit = cu.m.

A. Name and Capacity of Equipment (Operated)	No. of Units	No. Days	Rate/Day	Total Cost (Pesos)
Motorized Road Grader(140 hp),GM0A	1	1.00	P 22,599.20	P 22,599.20
Vibratory Roller (10 MT), SD100DC	1	1.00	14,768.00	14,768.00
Water Truck/Pump (16000 L)	1	1.00	19,600.00	19,600.00
A. SUB-TOTAL , EQUIPMENT				**P 56,967.20**

B. Designation of Personnel	No. of Men	No. of Days	Rate/Day	Total Cost (Pesos)
Foreman	1	10.00	P 743.84	P 7,438.40
Skilled Laborer	1	10.00	537.76	5,377.60
Unskilled Laborer	8	10.00	414.80	33,184.00
B. SUB-TOTAL, LABOR - MD			**44.37**	**P 46,000.00**

C. Name and Description	Qty	Unit	Unit Cost	Total Cost (Pesos)
Aggregate Base Course Mixed Gravel (15%Shrinkage Factor)	1,192	cu.m.	P 600.00	P 715,392.00
C. SUB-TOTAL, MATERIAL				**P 715,392.00**

SUMMARY:

A	Equipment		P 56,967.20
B	Labor		P 46,000.00
C	Materials		P 715,392.00
D	**TOTAL DIRECT COST**	(A+B+C)	**P 818,359.20**
	DIRECT UNIT COST	D/Quantity	**789.31**
E	OCM/Profit	20% of D	P 163,671.84
F	VAT	5% (D+E)	P 49,101.55
G	Total Cost	(D+E+F)	**P 1,031,132.59**
H	**UNIT COST**	(G/Quantity)	**994.53**

DETAILED UNIT PRICE ANALYSIS

Project: **Concreting of Road**

Location: **City Civic Center, Alibagu, City of Ilagan, Isabela**

Item No. : 311

Description : **Portland Cement Concrete Pavement(Plain), Thickness = 250mm**

Quantity = **1,296.00**

Unit = cu.m

A.	Name and Capacity of Equipment (Operated)	No. of Units	No. of Hrs.	Rate/Hr.	Total Cost (Pesos)
	Transit Mixer(5 cu.m)	3	78.00	P 1,318.00	P 308,412.00
	Concrete Vibrator	1	78.00	91.25	7,117.50
	Batching Plant(30 cu.m)	1	78.00	1,759.50	137,241.00
	Payloader(1.50 cu.m), LX80-2C	1	78.00	1,733.00	135,174.00
	Concrete Screeder(5.5 Hp)	1	78.00	545.00	42,510.00
	Water Truck(1000 gal.)	1	78.00	2,450.00	191,100.00
	Concrete Saw, Blade 14" dia.(7.5 Hp)	1	78.00	32.63	2,545.14
	Bar Cutter, Single Phase	1	18.00	219.75	3,955.50
	A. SUB-TOTAL , EQUIPMENT			**638.93**	**P 828,055.14**

B.	Designation of Personnel	No. of Men	No. of Days	Rate/Day	Total Cost (Pesos)
	Foreman	1	22.00	P 743.84	P 16,364.48
	Skilled Worker	4	22.00	537.76	47,322.88
	Unskilled Laborer	14	22.00	414.80	127,758.40
	B. SUB-TOTAL, LABOR - MD			**147.72**	**P 191,445.76**

C.	Name and Description	Qty	Unit	Unit Cost	Total Cost (Pesos)
	Reinforcing Steel Bar	1,710.72	kg.	P 52.00	P 88,957.44
	Curing Compound	1,503.36	lit.	60.00	90,201.60
	Asphalt Sealant	622.08	lit.	60.00	37,324.80
	Steel Forms(Rental)	232.00	l.m	55.00	12,760.00
	Sand(processed)	712.80	cu.m	750.00	534,600.00
	Gravel(processed)	1,425.60	cu.m	850.00	1,211,760.00
	Cement	15,552.00	bag	260.00	4,043,520.00
	Concrete saw(diamond blade 14")	1.00	pc	8,000.00	8,000.00
	Pipe Sleeve, 1" dia.	5.60	l.m.	34.33	192.37
	Greese/Tar	7.78	lit.	210.00	1,633.80
	C. SUB-TOTAL, MATERIAL				**P 6,028,950.01**

SUMMARY:

A	Equipment		P 828,055.14
B	Labor		P 191,445.76
C	Materials		P 6,028,950.01
D	**TOTAL DIRECT COST**	(A+B+C)	**P 7,048,450.91**
	DIRECT UNIT COST	D/Quantity	**5,438.62**
E	OCM/Profit	20% of D	P 1,395,690.18
F	VAT	5% (D+E)	P 422,017.05
G	Total Cost	(D+E+F)	**P 8,866,158.14**
H	**UNIT COST**	(G/Quantity)	**6,841.17**