

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE SECRETARY Manila

2 1 MAY 2018

MEMORANDUM

FOR

: Secretary MARK A. VILLAR

Secretary

This Department

This refers to the Memorandum dated 03 May 2018 of **DPWH Region XI Regional Director ALLAN S. BORROMEO, CESO IV**, requesting for the approval of the Modification of the hereunder project for FY 2018 General Appropriation Act (GAA), to wit:

As per GAA/Original			As Modified		
			Description		
UACS No. 31020	0410012000				
Project ID: P002	00385MN				
OO1: Ensure Safe and Reliable National Road System			OO1: Ensure Safe and Reliable National Road System		
Network Development			Network Development		
Construction of By-Pass and Diversion Roads			Construction of By-Pass and Diversion Roads		
Construction of By-Pa	iss and Diversion Roa	ads	Construction of By-	Pass and Diversion i	Roads
Alternate Poad from	Pegion VI to Peg	ion X (Jct Davao City	Alternate Poad fro	m Pegion VI to P	egion X (Jct Davao City
Diversion Road - Ca	talunan Grande – T	alandag – Sumimao –			- Talandag – Sumimao -
		Aglayan, Malaybalay),			- Aglayan, Malaybalay)
Package B, incl. ROW				W and Bridge, Dava	
J - 1					
Physical Target	Unit Cost	Allocation	Physical Target	Unit Cost	Estimated Cost
	(P'000)	(P'000)	Physical ranget	(P'000)	(P'000)
CW-1	₱ 12,062.50/	P 103,255.00	CW-1	₱ 29,703.55/	P 140,022.54417
Construction of	lane km		Construction of	lane km	
Gravel Road:			Gravel Road:		
8.56 lane km			4.714 lane km	3/96	and the state of t
CW-2	₱ 98.62/	₱ 28,226.25	CW-2	₱ 120.48/	P 51,720.65319
Construction of	sq.m.		Construction of	sq.m.	
Concrete Bridge:			Concrete Bridge:		
286.20 sq.m. CW-3	B 00 63/	8 20 226 25	429.30 sq.m. CW-3	9 400 74/	B 42 224 20264
Construction of	₱ 98.62/ sq.m.	₱ 28,226.25	Construction of	P 100.71/	P 43,234.30264
Concrete Bridge:	54.111.		Concrete Bridge:	sq.m.	
286.20 sq.m.			429.30 sq.m.		
CW-4	₱ 98.62/	P 47,043.75	EAO		₱ 8,750.00
Construction of	sq.m.	1 17/010170	2.0		. 0,700.00
Concrete Bridge:	oquin				
477.00 sg.m.					
CW-5	₱ 98.62/	P 28,226.25	ROW:	₱ 0.10/	₱ 6,272.50
Construction of	sq.m.	_	65,535.60 sq.m.	sq.m.	
Concrete Bridge:					
286.20 sq.m.				1	
EAO) MON	₱ 8,750.00			
/ DOW	5010/	D.C. 0770 FC			
ROW: 65,535.60 sq.m.	P 0.10/	₱ 6,272.50			
O. J. J. J. J. GRO MILLIES	sq.m.	1		The state of the s	
so/socias squiii		1			

Justification:

<u>Decrease in physical target</u> from 8.56 lane km to 4.714 lane km for construction of gravel road (with considerable cost) due to the following:

- Actual terrain is very mountainous for the entire stretch instead of combination of rolling and mountainous;
- This is a road opening of which the existing gradeline in the area is very steep reaching even up to 40%. Hence, the alignment of the road was shifted to the most economical alignment for this project, however, will still require huge volume of excavation since the lowest existing gradeline is about 36%. Massive excavation (mostly common with soft and hard rock) constitutes 41.5% of the project cost (attached are the cross sections and back-up computations);
- Opening of the road requires substantial vertical correction having excavation/cut ranging from 3-22m (average of 12m) to conform with the DPWH Design Guidelines and Standards (Horizontal and Vertical Alignment and Road Width); and
- The design also requires offsetting of the horizontal alignment (from bank of the steep slope to the mountain side) of up to 24 m and high side cuts (average of 17 m, highest is 38 m).

Change in physical targets for CW-2 and CW-3 (construction of bridges) including deletion of CW-4 and CW-5 (construction of bridges) due to the following:

- Only two bridges are included instead of four since the other two bridges are beyond the 2.46 km net length covered by the project due to reduction of physical target caused by considerable amount needed for road; and
- As per survey and design, the required length for the two bridges (CW-2 and CW-3) is 45 m on bored piles instead of 30 m, however, CW-2 has higher unit cost than that of CW-3 due to inclusion of 167 lm detour/access road (which requires embankment and pipe series) for CW-2.

Based on our evaluation, the herein request is found in order, hence approval is hereby recommended.

Senior Undersecretary

Undersecretary for Regional Mindanao Operations

APPROVED/DISAPPROVED:

MARK A. VILLAR

Secretary

2.1 MSQ/ACF/RCY

Department of Public Works and Highways Office of the Secretary

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