



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

**25 APR 2018**  
**MEMORANDUM**

**FOR : Secretary MARK A. VILLAR**  
Secretary  
This Department

This refers to the Memorandum dated 23 March 2018 of **DPWH Region XI Regional Director ALLAN S. BORRAMEO, 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		
Project Description					
UACS No. 310204100178000 Project ID: P00200408MN  OO1: Ensure Safe and Reliable National Road System  Network Development Program  Construction of Bypass and Diversion Roads  Mahayag-Gatungan-Callawa Diversion Road, incl. ROW, Davao City			OO1: Ensure Safe and Reliable National Road System  Network Development Program  Construction of Bypass and Diversion Roads  Mahayag-Gatungan-Callawa Diversion Road, incl. ROW, Davao City		
Physical Target	Unit Cost (P'000)	Allocation (P'000)	Physical Target	Unit Cost (P'000)	Estimated Cost (P'000)
CW-1 Const. of gravel road: 2.214 lane km	P 19,300/ lane km	P 42,730.20	CW-1 Const. of gravel road: 2.387 lane km	P 13,210.27/ lane km	P 31,532.9085
CW-2 Const. of concrete road: 6.154 lane km	P 16,887.50 / lane km	P 103,925.675	CW-2 Const. of concrete road: 4.803 lane km	P 29,796.92/ lane km	P 143,114.61719
CW-3 Additional lane width 333.2 sq. m.	P 5.68 / lane km	P 1,891.40			
CW-4 Reconstruction from paved to concrete: 8.484 lane km	P 16,887.50 / lane km	P 143,273.55	CW-3 Reconstruction from paved to concrete: 9.527 lane km	P 12,299.08/ lane km	P 117,173.29931
ROW: 129,325 sq. m.	P 0.58 / sq. m.	P 74,879.175	ROW: 129,325 sq. m.	P 0.58 / sq. m.	P 74,879.175
EAO	-	P 13,300	EAO	-	P 13,300
Total:		P 380,000	Total:		P 380,000

**Justification:**

Minimal increase in physical target from 2.214 lane km to 2.387 lane km with lower unit cost for construction of gravel road due to the following:

- To cover the needed length for improvement (sample transition) since the road has steep gradeline (even up to 18%) especially that there is a newly constructed road section under the LGU along the same road project (gap section/in between RO project); and
- The design of gradeline along the section for improvement/gravelling requires lesser height of vertical correction (cut) in order to tap with the designed gradeline of the LGU so that their newly constructed pavement will not be affected.

Decrease in physical target from 6.154 lane km to 4.803 lane km for construction of concrete road due to the following:

- The road section for concreting runs on a mountainous terrain (common excavation) which traverses mostly along ridge sections having steep gradeline and with width of only up to 4 meters, hence, the need to downgrade the road (need to cut ranging from 4-10 meters) to conform with the DPWH Design Guidelines and Standards (Horizontal and Vertical Alignment and Road Width);
- Major changes in the alignment of the road especially vertical alignment require voluminous excavation;
- Road design requires high side cuts also on most portion of the road which ranges from 9-14 meters.

Deleted type of work (additional lane width) of 0.196 km or 333.2 sq.m. since as per actual survey, said road section is already dilapidated and in bad condition with thickness of only 150-200 mm, hence, the need to reconstruct instead of additional lane width.

Increase in physical target from 8.484 lane km to 9.527 lane km with lower unit cost for reconstruction from paved to concrete due to the following:

- As per actual survey, there is a longer length of dilapidated/in bad condition road section that needs to be reconstructed;
- The road section originally proposed for additional lane width which was deleted was then included for reconstruction due to its bad condition; and
- The road section for reconstruction runs on a flat terrain (beginning portion of the road project) which only requires minimal earthworks.

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



**RAFAEL E. YABUT**

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



WIN8C02639