



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

May 12, 2023

**MEMORANDUM**

**FOR :** **MANUEL M. BONOAN**  
Secretary  
This Department

This refers to the memorandum dated 23 March 2023 of **DPWH Region IX Director CAYAMOMBAO D. DIA, CESO III**, requesting for the **modification** of the project under FY 2023 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
<b>UACS No. 310212100228000</b> <b>Project ID: P00705538MN</b>  OO1: Ensure Safe and Reliable National Road System – Network Development - Paving of Unpaved Roads - Tertiary Roads  Sindangan-Bayog-Lakewood Rd - K1742 + 322 - K1744 + 009			  OO1: Ensure Safe and Reliable National Road System – Network Development - Paving of Unpaved Roads - Tertiary Roads  Sindangan-Bayog-Lakewood Rd - <b>K1745 +230.00 – K1745 + 280.70, K1745 + 820.00 – K1745 + 881.65, K1746 + 738.50 – K1746 + 900.00</b>		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Paving of Unpaved Roads/ 3.376 lane km	₱ 36,301,836.49 /lane km	₱ 122,555,000.00	CW1- Paving of Unpaved Roads/ <b>0.5477</b> lane km	<b>₱ 141,975,597.73</b> /lane km	<b>₱ 77,760,034.88</b>
			<b>CW2 – Construction of Road Slope Protection Structure/ 12,081.83 sq.m.</b>	<b>₱ 3,707.63</b> /square meter	<b>₱ 44,794,965.12</b>
EAO	–	₱ 4,445,000.00	EAO	–	₱ 4,445,000.00
<b>Total:</b>		<b>₱ 127,000,000.00</b>	<b>Total:</b>		<b>₱ 127,000,000.00</b>

**Justification:**

- The decrease in physical target/increase in the unit cost is due to;
  - ✓ The Unpaved sections are the remaining gaps that were not considered in the previous fundings due to the huge volume of earthworks required.
  - ✓ Massive volume of Earthworks; Item 104(2)a Embankment from Borrow composed of 51.31% (₱ 62,887,187.89) of the total project cost. The road project includes massive embankment of common soil on both side of the road to consider future widening projects along the road sections, hence, it requires 60,326 cubic meters of the said item.
  - ✓ Also, the height of the embankment required for the project is approximately 29.50 meters from its lowest point.
  - ✓ The road project traverses along mountainous terrain and requires adjustment on the horizontal and vertical alignment to meet the DPWH Design Guidelines and Criteria.
  - ✓ See attached Plans for reference.
- Change in station limits based on actual field requirement, since the original limits are already paved under FY2022 GAA.
- Inclusion of Slope protection Structure to protect the road from scouring and road slip. The design includes Grouted Riprap, Class "A", Stone Masonry, furnishing and driving of Structural Steel Sheet Piles of 6 meters length each and Test Piles furnished and driven every 30 meters of interval.
- The Derived Unit cost is based on the approved Program of Works (POW) and Detailed Unit Price Analysis (DUPA).
- See the attached copy of Bureau of Construction (BOC) evaluation (Project No.1) dated May 08, 2023.

Based on our evaluation, the submitted request for modification of the said project is in order; hence, approval hereof is recommended.

**ADOR G. CANLAS**

Assistant Secretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

**RECOMMENDING APPROVAL:**

*Subject to further verification*  
**MARIA CATALINA E. CABRAL, Ph.D., CESO I**

Undersecretary for Planning  
and Public-Private Partnership Services

**NOTED!**  
*6/13*  
**EUGENIO R. RIPO, JR.**

Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

**APPROVED/~~DISAPPROVED~~:**

**MANUEL M. BONOAN**

Secretary

2.3 Idam/OAL/AVS/AGC/ERP

Department of Public Works and Highways  
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