



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



May 16, 2025

MEMORANDUM

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

This refers to the memorandum dated March 31, 2025 of **DPWH Region X Director LILIBETH N. APARECIO** endorsing the request of **District Engineer VIRGINIA G. BATOCAIL**, Bukidnon 2nd District Engineering Office, for the approval of **Modification** of the project under FY 2025 General Appropriation Act (GAA), to wit:

As per GAA/Original			As Modified		
Project Description					
UACS No. 310107100755000 Project ID: P00909051MN OO1: Ensure Safe and Reliable National Road System – Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Primary Roads Bukidnon-Davao City Rd - K1607 + 455 - K1607 + 580 (RS)			 OO1: Ensure Safe and Reliable National Road System – Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Primary Roads Bukidnon-Davao City Rd - K1612 + 308 - K1612 + 343, K1613 + 032 - K1613 + 070, K1613 + 410 - K1613 + 442, K1614 + 270 - K1614 + 330		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1 – Construction of Road Slope Protection Structure - 5,100 Square Meters (m2)	₱9,650.00/ Square Meters (m2)	₱ 49,215,000.00	CW1 – Construction of Road Slope Protection Structure - 1,312 Square Meters (m2)	₱37,511.43/ Square Meters (m2)	₱ 49,215,000.00
EAO	-	₱ 1,785,000.00	EAO	-	₱ 1,785,000.00
Total:		₱51,000,000.00	Total:		₱ 51,000,000.00
Justification: <ul style="list-style-type: none">• The change in project limits was made to prioritize areas exhibiting existing and critical slope failure, as indicated in the submitted initial annual Road Slope Management (RSM) Survey. Even though the original station limits are still applicable and feasible for implementation, their execution has been deferred to focus on addressing critical defects in four damaged sections, as detailed in the approved Detailed Engineering Design (DED). <i>See attached RSM Annexes and Straight-Line Diagram.</i>• The project predominantly traverses mountainous terrain due to its topographical features and exposure to high-intensity rainfall. As a result of these conditions, multiple structural and surface failures have been observed along critical sections of the road. Specifically, pavement distress and slope instability have been documented in the following segments: K1612+308 - K1612+343, K1613+032 - K1613+070, K1613+410 - K1613+442, and K1614+270 - K1614+330. These issues require immediate engineering intervention causing discontinuities and lack of					

uniformity in the carriageway width. This situation creates significant inconvenience and poses hazards to motorists, particularly for large vehicles such as trailers and cargo trucks regularly traveling along this route to Davao City. If left unaddressed, the damage is expected to worsen over time, further compromising road safety and traffic efficiency.

- The project includes the usage of Mechanically Stabilized Earth (MSE) Retaining Wall system, resulting in increased unit costs and reduced physical targets. The Mechanically Stabilized Earth system includes 1,312 m² of retaining wall with mattresses, composite reinforcement system with high-strength geogrids, PVC-coated wire mesh gabions, and mechanically-connected gabion facia. It also includes geotextiles, hydraulic filters, drainage geo-composites, scouring protection, and drainage pipes as per the Detailed Engineering Design (DED).
- Additional works include structural backfill, toe protection, runoff drainage canals, curb and gutter, catch basins, 7 L.M extension of RCPC, and slope drainage protection measures. Road restoration involves 375.20 m² of PCCP (equivalent to 224 lane km) with 0.30 m thickness including paved shoulders, and 130 L.M of guardrail installation.
- The unit cost has been evaluated and reviewed by the Bureau of Construction (BOC) dated May 14, 2025 and has been found acceptable.

Based on our evaluation, the submitted request for project modification is in order; hence, it is respectfully recommended to the Undersecretary for his consideration and approval.

EUGENIO R. PIPO, JR.

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

RECOMMENDING APPROVAL:

MARIA CATALINA E. CABRAL, Ph.D., CESO I

Undersecretary for Planning and
Public-Private Partnership Services

APPROVED/DISAPPROVED:

MANUEL M. BONOAN

Secretary

2.3 LDAM/OAL/AVS/LMM/ERP