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

May 11, 2017

MEMORANDUM

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

This refers to the memorandum dated 05 May 2017 of **DPWH CAR Director NERIE D. BUENO,** endorsing the request of District Engineer, **ELEHIMICON M. LORENZANA,** Ifugao 1st District Engineering Office, for the **modification** of the hereunder stated project:

Location	Project Description		Physical Target / Cost	
	as per GAA **UACS: 292003020402290**	***as modified***	***per GAA/Original***	***as modified***
Lagawe, Ifugao	**MFO-2 Management Services, Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems** Construction of Banao Flood Control (Tungngod Side), Lagawe, Ifugao (*Construction of flood Mitigation)*	**MFO-2 Management Services, Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems** Construction of Banao Flood Control (Tungngod Side), Lagawe, Ifugao (*Construction of flood Mitigation)*	581 Lm	**394.00 Lm**
			Unit Cost: P43.029T/Lm	**Unit Cost: P63451T/Lm**
			Allocation: Php 25M	**Estimated Cost:** Php 25M

Justification: Decrease in physical target and increase in unit cost. The decreased in physical target is due to the change in the type of structure to be built taking into consideration design parameters, criteria and prevailing field conditions based on actual survey.

- The water is turbulent and scouring is heavy. When flooding occurs, even boulders are carried away making heavy impact on the lower part of the structure. To address it, a 0.30 meter thick reinforced concrete cut-off wall is provided.
- The soil is unstable hence the need for deeper foundations with depth of about 2.80 meters ground.
- Maximum flood water level is about 4.10 meters above normal water level. During heavy rains, debris composed mostly of logs are carried away by the floodwater. These logs usually create heavy impacts on the structure thus a 0.15 meter thick reinforced concrete slab is provided on the slope portion above the cut-off wall. A 0.80 meter high freeboard is provided.
- A 1.50 meter wide reinforced concrete crest with key is also provided.
- The total height of the structure is 8.0 meters.
- Embankment materials are to be hauled.

Considering the above river conditions, the original design (2.0 meter reinforced concrete cut-off and concrete slope) from which the original unit cost was derived, cannot be used.

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

ROMEO S. MOMO
Undersecretary for Luzon Operations

APPROVED/~~DISAPPROVED~~:

MARK A. VILLAR
Secretary

RAFAEL C. YABUT
Senior Undersecretary
Officer-In-Charge

Department of Public Works and Highways
Office of the Secretary
WIN7E01683

NOTE: *Copies of the approved project modification requests are forwarded to the Office of Undersecretary Maria Catalina E. Cabral, PhD, CESO I.*

2.4 alr/AVS/ERP/RSM