



May 20, 2021

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

Reference Number: **XI-241**  
Project ID: **P00522306MN**

**MEMORANDUM**

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

This refers to the memorandum dated 16 April 2021 of DPWH Region XI OIC-Director REY PETER B. GILLE, endorsing the request of District Engineer RICHARD A. RAGASA, Davao City District Engineering Office, for the modification of the project under FY 2021 GAA, to wit:

As per GAA/Original			As Modified		
Project Description					
<b>UACS No. 320102104171000</b> <b>Project ID: P00522306MN</b>  OO2: Protect Lives and Properties Against Major Floods - Flood Management - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Flood Mitigation Structure along Talomo River, Teacher's Village Section, Right Bank, Davao City			OO2: Protect Lives and Properties Against Major Floods - Flood Management - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Flood Mitigation Structure along Talomo River, Teacher's Village Section, Right Bank, Davao City		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Flood Mitigation Structure / 500.000 lm	P 135,100.00/ lm	P 67,550,000	CW1- Construction of Flood Mitigation Structure / 260.000 lm	P 259,807.69/ lm	P 67,550,000
EAO	-	P 2,450,000	EAO	-	P 2,450,000
<b>Total:</b>		<b>P 70,000,000</b>	<b>Total:</b>		<b>P 70,000,000</b>
<b>Justification:</b> <i>48% decrease in target</i> Decrease in physical target from 500 lm. to 260.000 lm. with increase in unit cost due to the following: <ul style="list-style-type: none"> <li>The project uses <u>Z-type Hot Rolled Steel Sheet Pile with pile cap</u> for high strength on steel grade instead of the ordinary structural steel sheet piles since it is more efficient based on design for it requires a very high section modulus and it is larsen interlocking;</li> <li>The design also requires <u>3-meter height of reinforced concrete vertical retaining on steel sheet pile with pile cap</u> to attain the maximum flood elevation requirement of the flood mitigation structure with riprap "Class D" with a volume of 1,030.40 cu.m. for toe protection and soil stability especially that a substantial volume of soil has already receded due to erosion; <i>subject to proper DBR disposal guidelines</i></li> <li>This includes <u>massive earthworks (embankment)</u> with a height of 3m which is necessary to alleviate overflowing from the river to the locality and a 4m river widening in accordance with the JICA feasibility study, hence, with substantial earthworks (unsuitable excavation=7,056.00 cu.m. and surplus common excavation=3,425.60 cu.m.);</li> <li>Inclusion of 0.90m parapet as top structure of the project for safety purposes and protection from overflowing; and</li> <li>Scope of work also includes removal and restoration of actual structures/obstruction (6 wooden/concrete houses) for the informal settlers including other miscellaneous structures such as trees furnishing and transplanting (4,250 pcs.) and 260 lineal meters detour/access road including maintenance for whole project duration.</li> </ul>					

*See MD Cert of Cost Memorandum*  
Based on our evaluation, the submitted request for modification of the said project is in order; hence, approval hereof is recommended.

**EUGENIO R. RIPO, JR.**  
Undersecretary for Regional Operations in Mindanao

**APPROVED/DISAPPROVED:**

**MARK A. VILLAR**  
Secretary

Department of Public Works and Highways  
Office of the Secretary



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