



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

Reference Number:	XI-114
Project ID:	P00633785MN

June 08, 2022

**MEMORANDUM**

**FOR**

**: ROGER G. MERCADO**  
Acting Secretary  
This Department

This refers to the Memorandum dated 06 June 2022 of **DPWH Region XI, Regional Director REY PETER B. GILLE, D.M.**, endorsing the request of **District Engineer RICHARD A. RAGASA, Davao City DEO**, for the modification of the project under FY 2022 GAA, to wit:

As per GAA/Original			As Modified		
Project Description			Project Description		
UACS No. 300215100489000 Project ID: P00633785MN					
Convergence and Special Support Program - Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Access Roads and/or Bridges from the National Road/s leading to Major/ Strategic Public Buildings/Facilities			Convergence and Special Support Program - Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Access Roads and/or Bridges from the National Road/s leading to Major/ Strategic Public Buildings/ Facilities		
Construction of Road at Brgy. Pandaitan to Paradise Embak, Paquibato District, Davao City			Construction of Road at Brgy. Pandaitan to Paradise Embak, Paquibato District, Davao City		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Concrete Road  4.000 lane km	P 24,125,000.00/ Lane km	P96,500,000.00	CW1 - Construction of Concrete Road  3.606 lane km	P17,662,229.62/ Lane km	P 63,690,000.00
			CW-2 Construction of Concrete Bridge: 715.50 sq. m.	P 45,856.04/ sq. m.	P 32,810,000.00
EAO		P 3,500,000.00	EAO		P 3,500,000.00
Total:		P100,000,000.00	Total:		P100,000,000.00

**Justification:**

Decrease in physical target for concreting from 4.00 lane km to 3.606 lane km with substantial cost due to the following:

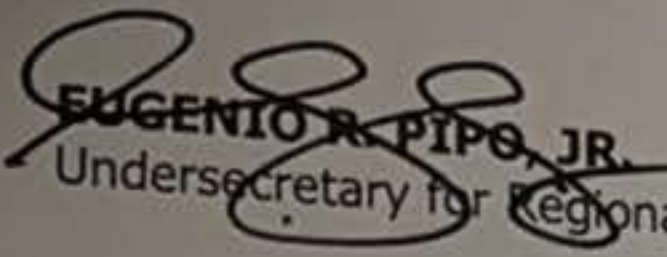
- There is a need to prioritize the Construction (Completion) of Tibungol Bridge along the alignment of the road in order to make it safe and passable for the travelling public. Hence, the allocation for road concreting was reduced and correspondingly, decrease in length;
- The design considers 6.7 meters width for the 2-lane road using 280 mm thick Portland Cement Concrete Pavement on 14-day concrete which also includes paving of shoulder with 1.5-meter width (both sides);
- The road design requires substantial excavation works (surplus common) on sections along mountainous terrain with a total volume of 65,490.60 cu. m. (height of up to 8 m) to conform with the DPWH Design Guidelines and Standards (Horizontal and Vertical Alignment, and Road Width); and
- The project involves drainage structures with grouted riprap line canal (1.2m x 1.1m – 2,120 lineal meters), pipe culverts (910mm dia. – 23 lineal meters) and stone masonry for catch basin to address run-off waters during heavy rain downpour;
- Also, it includes construction of slope protection structures using rubble concrete to protect soil from erosion; and inclusion of other miscellaneous structures such as installation of metal guardrails including post, application of reflectorized thermoplastic pavement markings and installation of solar LED street lights for road safety.

Additional type of work CW2 - Construction of Concrete Bridge with substantial cost due to the following:


- To complete the construction of Tibungol Bridge that was partially funded under FY 2021 (which only covers the construction of sub-structures and 2 piers of the said bridge)
- The project component includes construction of super-structures of the bridge using Type IV Pre-stressed Girder, deck slab, railings and approach slab;
- The project involves bank and slope protection structures using gabions (800 cu.m. of 1mx1mx2m) and mattresses (144 cu.m. of 0.3mx2mx6m) with filter cloth (784 sq.m.) in support to the bridge structure;
- It also involves construction of drainage structures using grouted riprap (class A), rubble concrete, hand-laid rock embankment and drain pipe with considerable earthwork requirements of unsuitable and surplus excavation (total volume of 5,320.05 cu.m.); and installation of regulatory signs, coco-net, coco-logs/fascine and vegetation (vetiver grass system).
- The derived unit cost is based on the approved Program of Works and Detailed Unit Price Analysis (DUPA).
- See attached Certificate of Reasonableness of Unit Cost.



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

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

**APPROVED/DISAPPROVED:**

  
**ROGER G. MERCADO**  
Acting Secretary

Department of Public Works and Highways  
Office of the Secretary



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2.3 aap/AVS/AGC/ERP