



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



September 30, 2024

**MEMORANDUM**

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

This refers to the memorandum dated 23 September 2024 of **DPWH Region IX Director CAYAMOMBAO D. DIA, CESO III**, requesting for the **modification** of the project under FY 2024 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No. 310205101245000 ✓ Project ID: P00800268MN ✓  OO1: Ensure Safe and Reliable National Road System - Network Development - Construction of Missing Links/ New Roads ✓  Sindangan - Bayog - Lakewood Road, Package 1, Zamboanga Del Norte ✓			OO1: Ensure Safe and Reliable National Road System - Network Development - Construction of Missing Links/ New Roads ✓  Sindangan - Bayog - Lakewood Road, Package 1, Zamboanga Del Norte ✓		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Concrete Bridge/ 1,049.40 Sq.m.	₱ 101,153.04 /sq.m.	₱ 106,150,000.00	CW1- Construction of Concrete Bridge / 294.786 sq.m.	₱ 230,354.80 /sq.m.	₱ 67,905,368.62
CW2- Construction of Concrete Bridge/ 1,049.40 Sq.m.	₱ 101,153.04 /sq.m.	₱ 106,150,000.00	CW2- Construction of Concrete Bridge / 1,156.248 sq.m.	₱ 88,268.38 /sq.m.	₱ 102,060,143.38
			CW3- Construction of Concrete Road/ 1.049 lane km	₱ 37,164,927.68 /lane km 74 M/km	₱ 38,986,009.14
			ROW Acquisition/ 25,410.00 sq.m.	₱ 118.06 /sq.m.	₱ 3,000,000.00
EAO	—	₱ 7,700,000.00	EAO	—	₱ 7,700,000.00
			EXCESS:		₱ 348,478.86
Total:		₱ 220,000,000.00	Total:		₱ 220,000,000.00

row is 1.36 b of TPC

Website: www.dpwh.gov.ph  
Tel. No(s): 5304-3000 / (02) 165-02  
202410-03666



**Justification:**

- The increase in the unit cost for CW1 is due to;
  - ✓ The bridge is a 30.90-meter single span bridge with its superstructure to be made of a prestressed concrete girder. Abutments A and B are to be founded on 1,500-mm dia. bored pile foundation.
  - ✓ The design includes the use of structural steel sheet piles, 6.0 meters in length and 0.40 meters in width per pile, for the cofferdam, which contributes to the increased cost per square meter of the bridge project.
  - ✓ The bridge project utilized the use of Scaffolding and shoring.
  - ✓ The scope of works includes the construction of 6.0-meters approach slab on both side of the abutments.
- The decrease in the unit cost for CW2 is due to;
  - ✓ The bridge is a 60.60-meter double span bridge with its superstructure to be made of a prestressed concrete girder. Abutments A and B and Pier are to be founded on 1,500-mm dia. bored pile foundation.
  - ✓ The design includes the use of structural steel sheet piles, 6.0 meters in length and 0.40 meters in width per pile, for the cofferdam, which contributes to the increased cost per square meter of the bridge project.
  - ✓ The bridge project utilized the use of Scaffolding and shoring.
- The difference in the unit costs between the two bridges is primarily attributed to the number of spans of each bridge. CW1 is a single-span bridge, while CW2 is a double-span bridge. For the additional span in CW2, the quantity of materials needed to construct the pier and deck is not significantly large, resulting in lesser cost. However, this increases the total area of the bridge, which in turn decreases its unit cost.
- Inclusion of CW3- Construction of Concrete Road, in order to address the remaining gap of the missing link section. It is necessary to include the construction of concrete road, to provide accessible road linking the province of Zamboanga del Norte and Zamboanga del Sur.
- For CW3 - Construction of Concrete Road, the project includes the following;
  - ✓ 12,198 cu.m. of Embankment from Borrow of Common soil, contributed 6.06% (P12,592,315.14) of the total cost. The project traverses along mountainous terrain and requires adjustment on horizontal and vertical alignment to meet the DPWH Design Guidelines and Criteria.
  - ✓ Construction of 720.0- lineal meters of PCCP shoulder, with design width of 1.5-meters and 150mm thick.
  - ✓ The road project includes 5,136.66 sq.m. of slope protection, the use of Grouted Riprap to protect the road embankment from collapse and soil erosion, constitutes 3.204% (P6,706,550.81) of the total cost,
  - ✓ In addition, the project requires the use of Coco-net, to protect the cut slope from erosion/ collapse, which contributed 0.60% (P 1,272,507.93) of the total cost.
  - ✓ Lastly, the project includes miscellaneous structures; Reflectorized Thermoplastic Pavement markings (White) for centerline, edge lines and barrier lines.
- Inclusion of Right-of-Way Acquisition, to compensate affected owners of structures/ improvements within the width and limits of the project, based on the conducted parcellary survey, the derived unit cost for ROW Acquisition is based on the prevailing market values in the locality. See attached DRAM certification and the list of affected property owners with corresponding cost of compensation.

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- The change in the total amount of the project was reduced from ₱ 220,000,000.00 to ₱219,651,521.14 as the result of the evaluation on the construction cost of the project conducted by the Bureau of Construction dated September 30, 2024 (See attached). Hence, there is an excess amount of ₱ 348,478.86.
- The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW).

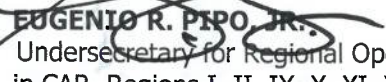
Based on our evaluation, the submitted request for modification of the said project is in order; hence, approval hereof is recommended.

  
**REY PETER B. GILLE, D.M.**

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

**RECOMMENDING APPROVAL:**

  
**MARIA CATALINA E. CABRAL, Ph.D., CESO I**  
Undersecretary for Planning  
and Public-Private Partnership Services

  
**EUGENIO R. PIHO, JR.**  
Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

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

  
**MANUEL M. BONOAN**  
Secretary

Department of Public Works and Highways  
Office of the Secretary

