



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

Manila

June 26, 2024

MEMORANDUM

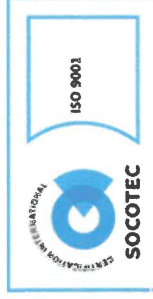
FOR : **MANUEL M. BONOAN,**
Secretary
This Department

This refers to the memorandum dated 3 April 2024 of **DPWH Region IX Director CAYAMOMBAO D. DIA** endorsing the request of **District Engineer REYNERIO P. ALCACHUPAS, Zamboanga del Norte 1st District Engineering Office,** for the approval of Modification of the hereunder project under FY 2024 General Appropriations Act (GAA), to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No. 300225102216000 Project ID: P00836172MN Convergence and Special Support Program Basic Infrastructure Program (BIP) - Flood Mitigation Structures protecting Public Infrastructures/Facilities Construction of Flood Control Structure, Poblacion, Polanco, Zamboanga del Norte	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
	₱319,022.869/ Lineal Meter	₱ 30,690,000.00	CW1- Construction of Flood Mitigation Structure / 68.00 Lineal Meters	₱446,635.59/ Lineal Meter	₱ 30,371,220.00
	—	₱ 310,000.00	EAO	—	₱ 306,780.00
	Total: ₱ 31,000,000.00		EXCESS	Total:	₱ 31,000,000.00

Justification:

- The physical target decreased from 96.200 ln.m. to 68.00 ln.m. due to the increase in unit cost.
- The unit cost increased due to the following:
 - The adapted design is a double berm triple slope flood mitigation structure based on the maximum experienced flood level.
 - Massive volume of Hand-Laid Rock Embankment (6,119.40 cu.m.) due to the corrected alignment of the flood control structure from the river bank.
 - The usage of 12.00m long Structural Steel Sheet Piles which is based on the design analysis also contributed to the increase in the unit cost.
 - The design also includes bank protection for the adjacent creek which utilizes 3.00m long structural steel sheet piles on both sides and inclusion of 3-Barrel RCBC (L=20.40m, S=1.50m, H=1.50m, t=0.18m) with flood gate in the design to convey drain water to connecting natural body of water.
 - The project connects with the existing flood control structure along Dipolog River (Polanco Section) along Dipolog-Polanco-Piñan-Jct. Oroquieta Road. This will help safeguard the poblacion barangays in the Municipality of Polanco, effectively mitigating the disaster risk to both lives and property. See attached Project Impact Analysis.



Reference
Number:

IX-035

Project ID: P00836172MN

BAGONG PILIPINAS



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As per GAA/Original			As Modified		
Project Description					
UACS No. 300225102216000 Project ID: P00836172MN					
Convergence and Special Support Program Basic Infrastructure Program (BIP) - Flood Mitigation Structures protecting Public Infrastructures/Facilities			Convergence and Special Support Program Basic Infrastructure Program (BIP) - Flood Mitigation Structures protecting Public Infrastructures/Facilities		
Construction of Flood Control Structure, Poblacion, Polanco, Zamboanga del Norte			Construction of Flood Control Structure, Poblacion, Polanco, Zamboanga del Norte		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Flood Mitigation Structure / 96.200 Lineal Meters	₱319,022.869 Lineal Meter	₱ 30,690,000.00	CW1- Construction of Flood Mitigation Structure / 68.00 Lineal Meters	₱446,635.59/ Lineal Meter	₱ 30,371,220.00
EAO	–	₱ 310,000.00	EAO	–	₱ 306,780.00
Total:		₱ 31,000,000.00	Total:		₱ 322,000.00
					₱ 31,000,000.00

Justification:

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- The unit cost increased due to the following:
 - The adapted design is a double berm triple slope flood mitigation structure based on the maximum experienced flood level.
 - Massive volume of Hand-Laid Rock Embankment (6,119.40 cu.m.) due to the corrected alignment of the flood control structure from the river bank.
 - The usage of 12.00m long Structural Steel Sheet Piles which is based on the design analysis also contributed to the increase in the unit cost.
 - The design also includes bank protection for the adjacent creek which utilizes 3.00m long structural steel sheet piles on both sides and inclusion of 3-Barrel RCBC (L=20.40m, S=1.50m, H=1.50m, t=0.18m) with flood gate in the design to convey drain water to connecting natural body of water.
 - The project connects with the existing flood control structure along Dipolog River (Polanco Section) along Dipolog-Polanco-Piñan-Jct. Oroquieta Road. This will help safeguard the poblacion barangays in the Municipality of Polanco, effectively mitigating the disaster risk to both lives and property. See attached Project Impact Analysis.

- The structure is a revetment type flood control structure with a steel sheet pile foundation to resist horizontal soil and water pressure acting on it during flooding and in normal conditions. Steel sheet piles also served as protection during scouring and prevents damage to the revetment wall, as well as the river banks. See attached Narrative Report, Project Impact Analysis (PIA) and Scour Analysis.
- The original allocation of ₱ 31,000,000.00 was reduced to ₱ 30,678,000.00 resulting to an excess amount of ₱ 322,000.00 as per evaluation of the Bureau of Construction. See attached memorandum dated April 18, 2024.
- The derived unit cost is based on the approved Program of Works (POW) and Detailed Unit Price Analysis (DUPA).
- Attached are the following supporting documents: Approved Program of Works (POW), Approved Plan, BP Form 202, Certificate of Availability of Funds (CAF), Certificate of Reasonableness of Cost Estimate, Geotagged Photos, and GIS Map of the Proposed Project Work Location.

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. PIPO, JR.

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

APPROVED/DISAPPROVED:

MANUEL M. BONOAN

Secretary

2.3 mksa/AVS/RPBG/ERP

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