



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

June 10, 2021

MEMORANDUM

TO : OIC – Regional Director KHADAFFY D. TANGGOL
Cordillera Administrative Region

ATTENTION : OIC - District Engineer BENEDICTA C. MENDOZA
Benguet 1st District Engineering Office

Transmitted herewith are the **duly approved** Request for Modification for the project under FY 2021 General Appropriation Act (GAA), RA 11518, viz:

Date Approved	As per GAA/Original		As Modified	
	Project Description			
June 10, 2021	1. Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570 , La Trinidad, Benguet		Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 055+820 – Sta. 056+780 , La Trinidad, Benguet	
	CW-1 Construction of Flood Mitigation Structure 1,072.38 Lineal Meters	₱ 81,078,335	CW-1 Construction of Flood Mitigation Structure 918 Lineal Meters	₱ 81,078,335
	EAO	₱ 2,940,665	EAO	₱ 2,940,665
	Total	₱ 84,019,000	Total	₱ 84,019,000

In this regard, please be reminded that a **project can only be modified once** as prescribed under the FY 2021 GAA, and all approved modifications **shall be posted in the DPWH website within five (5) days from receipt thereof**. Failure to comply with this requirement shall be meted with appropriate sanctions.

Please be guided accordingly.


RAFAEL C. YABUT

Senior Undersecretary

Undersecretary for Regional Operations

Regions I, II, III, IV-A, V and CAR

cc: **Undersecretary MARIA CATALINA E. CABRAL, Ph.D.**, Information Management, Planning and PPP Services
Assistant Secretary WILFREDO S. MALLARI., Regional Operations in Regions I, II, III, IV-A, V and CAR



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

Ref No. CAR - 086

Programming Division Evaluation Sheet

Name of Project:

Project ID: P00525553LZ

Construction of Flood Mitigation Structure within Naguillian River Basin: along
Naguillian River Section 2 (Bolo Creek), Sta. 056 + 000 - Sta. 057 + 570, La Trinidad,
Benguet

Appropriation: 84,019,000

Implementing Office: Benguet First District Engineering Office

Date: 05/04/2021

A. TYPE OF REQUEST

A.1 ☐ Change in Implementing Office/Operating Unit due to

A.1.1 ☐ Geographical Jurisdiction

A.1.2 ☐ Approval of Authority to Bid/Implement

A.2 ☒ **PROJECT MODIFICATION/ADJUSTMENTS**

A.2.1 ☐ Typographical Error/s

A.2.2 ☐ Change in Location (for non-existent locations only)

A.2.3 ☒ Change in Station Limits

A.2.4 ☐ Addition/Deletion of Word/s

A.2.5 ☐ Change in Project Component/s Details

A.2.5.1 ☒ Change in Targets ONLY

A.2.5.2 ☐ Change in Scope of Work ONLY

A.2.5.3 ☐ Change in Component Amount ONLY

A.2.5.4 ☐ Addition of Component ONLY (incl. EXC Component)

A.2.5.5 ☐ Deletion of Component ONLY

A.2.5.6 ☐ Movement of Funds bet. Components ONLY

A.2.5.7 ☐ MULTIPLE changes in Component Details

B. EVALUATION

B.1 ☒ MAY BE ALLOWED as per the GAA Provisions

B.2 ☐ NOT ALLOWED as per the GAA Provisions

C. FUND SOURCE FY 2021 GAA, R.A. 11518

C.1 ☐ FLR ([] Released [] Unreleased)

C.2 ☒ FCR

Amount: 84,019,000

D. Remarks: Decrease in target by 14.4% and increase in unit cost by 16.82%.

Evaluated By: CHRISTYBEL C. CANUEL
Regional Coordinator

Noted By: LEONORA C. GALANG
Section Chief

ACTION SLIP

Project ID: P00525553LZ

Ref No. CAR - 086

FOR : **USEC FOR OPERATIONS**

☒ RCY

☐ RBB

☐ ERP, Jr.

Date: 05/04/2021

☐ EKS

REMARKS:

☒ Reviewed by Planning Service

☒ Recommended for Approval

Remarks:

MARIA CATALINA E. CABRAL, PhD, CESO I

Undersecretary for Information Management, Planning and PPP Services



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

JUN 10 2021

MEMORANDUM

FOR : **MARK A. VILLAR**
Secretary

Respectfully forwarded is the Memorandum dated April 6, 2021 of OIC-Regional Director **KHADAFFY D. TANGGOL, DPWH-CAR**, endorsing the request of **OIC - District Engineer BENEDICTA C. MENDOZA, Benguet 1st DEO**, requesting for the **modification** of project under the FY 2021 GAA, RA 11518, to wit:

As per GAA/Original			As Modified		
Project Description					
UACS No. 320101106033000 Project ID: P00525553LZ					
OO2: Protect Lives and Properties			OO2: Protect Lives and Properties		
Flood Management - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems			Flood Management - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems		
Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570, La Trinidad, Benguet			Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 055+820 – Sta. 056+780, La Trinidad, Benguet		
Physical Target	Unit Cost	Allocation (P)	Physical Target	Unit Cost	Estimated Cost
CW-1 Construction of Flood Mitigation Structure 1,072.38 Lineal Meters	₱ 75,606 / Lineal Meters	₱ 81,078,335	CW-1 Construction of Flood Mitigation Structure 918 Lineal Meters	₱ 88,321 / Lineal Meters	₱ 81,078,335
EAO	-	₱ 2,940,665	EAO	-	₱ 2,940,665
Total:		₱ 84,019,000	Total:		₱ 84,019,000
Justification:					
<ul style="list-style-type: none">Adjustment of station limits to prioritize critical sections in need of immediate flood mitigation structure.Decrease in physical target due to increase in unit cost due to revised design for the flood mitigation structure. The original design was a revetment wall but during the detailed engineering design, adopted design for the structures are in the form of (1) structured wall High-Density Polyethylene Pipe (HDPE) with concrete armor and (2) steel sheet piles with stone masonry wall. Such structures entailed significantly higher material costs than the more common revetment structures.The derived unit cost and physical target were based on the approved plans, POW, DUPA, CMPD and Certificate of Reasonableness of Cost.					

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

RAFAEL C. YABUT
Senior Undersecretary
Undersecretary for Operations
Regions I, II, III, IV-A, V and CAR

APPROVED/DISAPPROVED:

MARK A. VILLAR
Secretary

Department of Public Works and Highways
Office of the Secretary



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Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
Engineer's Hill, Baguio City

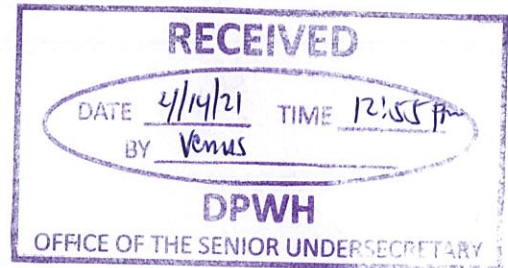
April 6, 2021

MEMORANDUM

FOR : MARK A. VILLAR
Secretary

THRU : RAFAEL C. YABUT
Senior Undersecretary for Regional Operations
Regions I, II, III, IV-A, V & CAR

SUBJECT : Request for Modification of the CY 2021 Project: Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570, La Trinidad, Benguet (P00525553LZ)



We are respectfully forwarding the Memorandum dated March 31, 2021 from OIC-District Engineer Benedicta C. Mendoza, Benguet First District Engineering Office, regarding the modification of the above project in the amount of **Eighty-Four Million Nineteen Thousand Pesos (Php 84,019,000.00)**, as indicated below:

FROM
Project Title:
Construction of Flood Mitigation Structure
within Naguillian River Basin: along Naguillian
River Section 2 (Bolo Creek), **Sta. 056+000**
– **Sta. 057+570**, La Trinidad, Benguet

Physical Target:
1,072.380 Lineal Meters

TO
Project Title:
Construction of Flood Mitigation Structure
within Naguillian River Basin: along Naguillian
River Section 2 (Bolo Creek), **Sta. 055+820**
– **Sta. 056+780**, La Trinidad, Benguet

Physical Target:
918.000 Lineal Meters

The supporting documents based on D.O. No. 37, Series of 2018 are attached for your ready reference.

For the consideration of the Secretary.

KHADAFFY D. TANGGOL
OIC-Regional Director

By the Authority of the Regional Director:


REYNALDO C. ALCONCEL
Assistant Regional Director

CAR.1 DLBC/EFD/AOD/ABM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BENGUET FIRST
DISTRICT ENGINEERING OFFICE
CORDILLERA ADMINISTRATIVE REGION
Wangal, La Trinidad, Benguet

March 31, 2021

MEMORANDUM

FOR : **KHADAFFY D. TANGGOL**
OIC-Regional Director

ATTENTION : **ANGELITA B. MABITAZAN**
Chief, Planning and Design Division

SUBJECT : **Request for Modification of the CY 2021 Project: Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570, La Trinidad, Benguet (P00525553LZ)**

Respectfully submitted is the request for modification of the above project. The proposed changes are presented below.

	FROM (As per GAA/Original)	TO (As Modified)
Project Description	Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570 , La Trinidad, Benguet	Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 055+820 – Sta. 056+780 , La Trinidad, Benguet
Physical Target	1,072.380 Lineal Meters	918.000 Lineal Meters

Attached are the supporting documents based on D.O. No. 11, Series of 2018, "Guidelines on Project Modification and Augmentation Under the General Appropriations Act (GAA)."

For your perusal.


BENEDICTA C. MENDOZA
OIC-District Engineer

CAR.16.1 HGUD/LBP/BCM

Form for Modification Request

A. GENERAL					
1. REGION Cordillera Administrative Region (CAR)		2. DEO Benguet 1st District Engineering Office		3. LEGISLATIVE DISTRICT Benguet Lone District	
B. ORIGINAL PROJECT			C. PROPOSED REVISED PROJECT		
4. UACS (Unified Account Code Structure as defined in GAA) 320101106033000					
5. Project Id P00525553LZ ✓					
6. Project Category OO2: Protect Lives and Properties					
7. Sub-Program (P/A/P) Flood Management - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems					
8. Operating Unit Benguet 1st District Engineering Office			18. Operating Unit (Change subject to DBM approval) Benguet 1st District Engineering Office ✓		
9. Type of Work (Enter Details for all Components below)			19. Type of Work (Enter Details for all Components below)		
Component ID	Type of Work		Component ID	Type of Work	
P00525553LZ-CW1	Construction of Flood Mitigation Structure		P00525553LZ-CW1	Construction of Flood Mitigation Structure ✓	
P00525553LZ-EAO			P00525553LZ-EAO		
10. PROJECT DESCRIPTION (as recorded in GAA) Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570, La Trinidad, Benguet			20. PROJECT DESCRIPTION (of the revised project) Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 055+820 – Sta. 056+780, La Trinidad, Benguet		
11. ALLOTMENT (P'000) (as recorded in GAA) 84,019 ✓			21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 84,019		22. CAF (To be obtained from Financial Management office) <input checked="" type="checkbox"/> YES
12. PHYSICAL TARGET (Enter Details for all Components below)			23. PHYSICAL TARGET (Enter Details for all Components below)		
Component ID	Target	Target Unit	Component ID	Target	Target Unit
P00525553LZ-CW1	1,072.380 ✓	Lineal Meters (lm)	P00525553LZ-CW1	918.000 ✓	Lineal Meters (lm)
P00525553LZ-EAO			P00525553LZ-EAO		
13. UNIT COST (Enter Details for all Components below)			24. UNIT COST (Enter Details for all Components below)		
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)	Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)
P00525553LZ-CW1	81,078.335	75.606 ✓	P00525553LZ-CW1	81,078.335 ✓	88.321 ✓
P00525553LZ-EAO	2,940.665		P00525553LZ-EAO	2,940.665 ✓	

Form for Modification Request

14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014) Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 056+000 – Sta. 057+570 , La Trinidad, Benguet Coordinates were inadvertently not provided in the Project Detail Matrix and Database (PDM, PDD). <table style="width: 100%;"> <tr> <td>Start X</td> <td>End X</td> </tr> <tr> <td>Start Y</td> <td>End Y</td> </tr> </table>	Start X	End X	Start Y	End Y	25. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014. Also complete "ANNEX A" for National Road projects under OO-1 and LP) Construction of Flood Mitigation Structure within Naguillian River Basin: along Naguillian River Section 2 (Bolo Creek), Sta. 055+820 – Sta. 056+780 , La Trinidad, Benguet <table style="width: 100%;"> <tr> <td>Start X</td> <td>120.587735 ✓</td> <td>End X</td> <td>16.464227 ✓</td> </tr> <tr> <td>Start Y</td> <td>120.583523 ✓</td> <td>End Y</td> <td>16.458903 ✓</td> </tr> </table>	Start X	120.587735 ✓	End X	16.464227 ✓	Start Y	120.583523 ✓	End Y	16.458903 ✓
Start X	End X												
Start Y	End Y												
Start X	120.587735 ✓	End X	16.464227 ✓										
Start Y	120.583523 ✓	End Y	16.458903 ✓										
15. ROAD CLASSIFICATION (if applicable) N/A	26. ROAD CLASSIFICATION (if applicable) N/A												
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Benguet 1st District Engineering Office	27. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project) Benguet 1st District Engineering Office												
17. PROJECT IMPLEMENTATION PLAN (PIP) <table style="width: 100%;"> <tr> <td>Planned Start Date</td> <td>Planned End Date</td> </tr> <tr> <td>04/26/2021</td> <td>12/31/2021</td> </tr> </table>	Planned Start Date	Planned End Date	04/26/2021	12/31/2021	28. PROJECT IMPLEMENTATION PLAN (PIP) <table style="width: 100%;"> <tr> <td>Planned Start Date</td> <td>Planned End Date</td> </tr> <tr> <td>5/13/2021 ✓</td> <td>03/03/2022 ✓</td> </tr> </table>	Planned Start Date	Planned End Date	5/13/2021 ✓	03/03/2022 ✓				
Planned Start Date	Planned End Date												
04/26/2021	12/31/2021												
Planned Start Date	Planned End Date												
5/13/2021 ✓	03/03/2022 ✓												
29. OVERLAP? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	30. UNDER WARRANTY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES												

D. ATTACHMENTS & JUSTIFICATIONS

31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A
32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points) ADJUSTMENTS Physical Target: from 1,072.38 to 918.00 Lineal Meters (Decreased by 154.38 Lm = 14.40%) Unit Cost: from P75,606/Lm to P88,321/Lm (Increased by P12,715/Lm = 16.82%) <ul style="list-style-type: none"> The revised physical target reflects the length of flood mitigation structures needed to address the perennial inundation experienced in the area especially during periods of inclement weather. The project involves the construction of flood mitigation structures in the form of (1) structured wall High-Density Polyethylene Pipe (HDPE) with concrete armor and (2) steel sheet piles with stone masonry wall. Such structures entailed significantly higher material costs than the more common revetment structures. This resulted in an increase in the overall project unit cost which is nonetheless reasonable considering that individual unit costs of items of work involved are within the range of prevailing costs of the Department. The original proposal was to construct a revetment along the entire stretch of the Bolo creek section up to its junction with the Balili River as covered by the station limits in the original project description. However, a review of available studies revealed that flooding occurs when the flow along Bolo Creek cannot enter the Balili River due to the higher flow velocity of the latter. In order to prevent such backflow of the Bolo Creek that results to inundation of the La Trinidad valley, it was proposed that a continuous culvert in the form of enclosed HDPE pipes be constructed at the junction of both flows towards the Balili River section to separate the flows from both rivers. The pipes will cater to the lower velocity of the Bolo Creek, allowing its flow to enter the raging Balili River. The actual extent of the structures is therefore reflected in the station limits in the revised project description, following the stationing set in the District's flood control master plan. Steel sheet piles were proposed as flood and bank erosion mitigation structure along the main Bolo Creek due to its significantly greater embedment depth as compared to other structures. This is a vital consideration since the area is a swamp where soils are saturated due to the higher ground water table. Also, the smaller cross section of the steel sheet piles will allow an improved discharge capacity of the river section when the riverbed is excavated to clear excess soils.

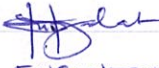


Form for Modification Request

33. PHOTOS SUBMITTED			
<input type="checkbox"/> NO		<input checked="" type="checkbox"/> YES	
34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED			
<input type="checkbox"/> NO		<input checked="" type="checkbox"/> YES	
35. PREPARED BY:			
Name:	HARVEY GARETT U. DELLA	Position:	Engineer II
Office:	Benguet 1st District Engineering Office	Date:	
36. REVIEWED BY DISTRICT OFFICE (If Required)		38. REVIEWED BY REGIONAL OFFICE	
Name:	LOIDA B. PASCUA	Name:	ANGELITA B. MABITAZAN
Position:	Chief, Planning and Design Section	Position:	Chief, Planning and Design Division
Date:		Date:	
37. RECOMMENDED BY DISTRICT OFFICE (If Required)		39. RECOMMENDED BY REGIONAL OFFICE	
Name:	BENEDICTA C. MENDOZA	Name:	KHADAFFY D. TANGGOL
Position:	OIC-District Engineer	Position:	OIC-Regional Director
Date:		Date:	

By the authority of the Regional Director:


REYNALDO C. ALCONCEL
 Assistant Regional Director

Form for Modification Request

UACS (Unified Account Code Structure as defined in GAA) 320101106033000				
Project Id P00525553LZ				
40. DPWH OFFICE OF THE UNDERSECRETARIES FOR OPERATIONS USE ONLY				
Category of Modification (choose one)		<input type="checkbox"/> Category A – Typographical Errors <input type="checkbox"/> Category B – Change in Station Limits, due to increase or decrease in budget <input type="checkbox"/> Category C – Change in Location <input type="checkbox"/> Category D – Change in Operating Unit (requires DBM approval) <input type="checkbox"/> Adjustment – Send to PS-PD to amend MYPs <input type="checkbox"/> Modification does not comply with DBM Categories <input type="checkbox"/> Augmentation		
Primary Reason for Request (based on Category of Modification): (choose one)				
Category A <input type="checkbox"/> Typographical error on Project Description <input type="checkbox"/> Project Description needs items removed due to typo error	Category B <input type="checkbox"/> Overlapping Sections of Work <input type="checkbox"/> Change in station limits, due to increase or decrease in budget <input type="checkbox"/> Change in Physical Target	Category C <input type="checkbox"/> No such Barangay <input type="checkbox"/> No such City/Municipality	Category D <input type="checkbox"/> Change in (IO), requiring a change in the (OU)	Adjustment (Must be no change to target or GAA line item) <input type="checkbox"/> Typographical error on Project Component Description <input type="checkbox"/> Typographical error on other fields not included in, or not consistent with GAA <input type="checkbox"/> Move funds between Project Components <input type="checkbox"/> Add/delete Project Components Change of Itemized Project Component: <input type="checkbox"/> Various <input type="checkbox"/> Description <input type="checkbox"/> Location <input type="checkbox"/> Amount <input type="checkbox"/> Target
Reviewed by Office of the Undersecretary for Operations				
Name: RHOFEL MARIE Y. RECALADO				
Signature: 				
Position: ENGINEER IV				
Date:				
41. DPWH PLANNING SERVICE OFFICE USE ONLY				
Category of Modification (choose one)		<input type="checkbox"/> Category A – Typographical Errors <input type="checkbox"/> Category B – Change in Station Limits, due to increase or decrease in budget <input type="checkbox"/> Category C – Change in Location <input type="checkbox"/> Category D – Change in Operating Unit (requires DBM approval) <input type="checkbox"/> Adjustment – Send to PS-PD to amend MYPs <input type="checkbox"/> Modification does not comply with DBM Categories <input type="checkbox"/> Augmentation		
Reviewed by Planning Service				
Name: CHRISTYBEL G. CANUEL		Name: PETER PAUL R. CORTEZ		
Signature: 		Signature: 		
Position: Regional Coordinator		Position: OIC-Division Chief, Programming Division		
Date: 5/4/21		Date: 5/4/21		