



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



June 10, 2024

MEMORANDUM

TO : **KHADAFFY D. TANGGOL**
Regional Director
DPWH-Cordillera Administrative Region (CAR)
Engineer's Hill, Baguio City

ATTENTION : **REX K. OYA-OY**
OIC-District Engineer
Benguet 2nd District Engineering Office
Natubleng, Buguias, Benguet

Transmitted herewith are the **APPROVED** requests for the **modification** of hereunder stated projects:

1. OO2: Protect Lives and Properties Against Major Floods - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems - *Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 - Sta. 8+193 (R.S), Sta. 8+125 - Sta. 8+265 (L.S.), Sta. 0+000 - Sta. 0+070 (L.S), Kapangan, Benguet* - - - - - **P15,000,000.00.**
2. OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Tertiary Roads - *Gov. Bado Dangwa National Rd - K0299+454 - K0299+489, K0304+930 - K0305+003, K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860* - - - - - **P18,770,000.00.**
3. OO1: Ensure Safe and Reliable National Road System - Network Development - Off-Carriageway Improvement - Secondary Roads - *Baguio-Bontoc Rd - K0327+250 - K0327+700* - - - - - **P10,916,000.00.**

Please be reminded that all approved modifications **shall be posted in the DPWH website within five (5) days** from its approval. Failure to comply with this requirement shall be dealt with accordingly.


REY PETER B. GILLE. D.M.

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

Project Modification of Allotment under the GAA Request Evaluation Form

Date of Evaluation: 05/17/2024

P/A/P 1 (001, 002, CSSP, LP):	Appropriation Source:	FY 2024 GAA
ORGANIZATIONAL OUTCOME 2 : Protect Lives and Properties Against Major Floods	UACS:	320101111727000
P/A/P 2 (Program):	Project ID:	P00824668LZ
Flood Management Program	Region:	Cordillera Administrative Region
P/A/P 3 (Sub-Program):	Implementing Office:	Benguet 2nd District Engineering Office
Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems	Appropriation (Php):	15,000,000

Name of Project per GAA:

Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet

Implementing Office
A Justification for Modification:

- The inclusion of station 8+125 -8+193 (R.S.) was deemed necessary since this section collapsed during monsoon season. Moreover, the additional section in the right side is needed in order to protect the properties and vegetable production areas which will be affected from the diverted flow of water from the construction of flood control structure in the left side.
- The change in the start station limit was deemed necessary since there is a ROW issue along station 8+073 to station 8+125 (LS). Furthermore, end station was adjusted from 8+433 (LS) to 8+265 (LS) in order to address sections that were heavily damaged during the onslaught of monsoons.

A.1 ☒ Certificate of Reasonableness of Cost Estimate by: RD Khadaffy D. Tanggol dated: March 20, 2024

B. PER PLANNING SERVICE EVALUATION

B.1 ☒ **PROJECT MODIFICATION ON PROJECT DESCRIPTION**

B.1.1 ☐ Typographical Error/s

B.1.3 ☒ Change in Station Limits

B.1.2 ☐ Change in Location (for non-existent locations only)

B.1.4 ☐ Addition/ Deletion of Word/s

B.2 ☒ **PROJECT MODIFICATION/ADJUSTMENTS ON PROJECT COMPONENTS**

B.2.1 ☒ Change in Targets

B.2.3 ☐ Change in Component Amount

B.2.2 ☐ Change in Scope of Work

B.2.3.1 ☐ Addition of Component (including excess amount)

B.2.3.2 ☐ Deletion of Component

B.2.3.3 ☐ Movement of Funds between Components

**DPWH - OSEC
RECEIVED**
JUN 04 2024

By: 24-08988 Time: 08:54
Control No. 08541
IDTS No. 08541

C. RESULTANT AFTER MODIFICATION

C.1 ☐ Additional Project Component/s

C.2 Component/s:

COMP	SCOPE OF WORK		TARGET		INCREASE/DECREASE (%)	
	FROM	TO	FROM	TO	Unit Cost	Target
CW1	Construction of Flood Mitigation Structure	Construction of Flood Mitigation Structure	720.0 lm	278.0 lm	158.99%	-61.39%
CW2	-	-	-	-	-	-
CW3	-	-	-	-	-	-
CW4	-	-	-	-	-	-

D. AS EVALUATED

D.1 ☒ ALLOWED as per the GAA Provisions

D.2 ☐ NOT ALLOWED as per the GAA Provisions

D.3 Remarks (to be filled-up by Planning Service):

- Change in Station Limits
- Decrease in Target and Increase in Unit Cost without Changes in PDM
- BOC Reviewed Cost thru Memo dated 02 May 2024 of Director Allan S. Borromeo

Evaluated By:

ALEX G. BOTE

Director, Planning Service

Noted By:

CONSTANTE APOLLANES JR., CESO III

Assistant Secretary, Planning Service

E. Approving Authority as per latest Approved Guidelines on Modification of Allotment under the GAA

E.1 ☒ Secretary

E.2 ☐ Undersecretary for Operations

☒ Recommended for Approval
Remarks:

MARIA CATALINA E. CABRAL, CESO I, Ph.D.
Undersecretary for Planning and PPP Services



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



May 02, 2024

MEMORANDUM

FOR : MANUEL M. BONOAN
Secretary
This Department

This refers to the memorandum dated April 1, 2024 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, endorsing the request of **OIC-District Engineer REX K. OYA-OY, Benguet Second District Engineering Office**, for the **modification** of the project under FY 2024 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No. : 320101111727000 Project ID: P00824668LZ OO2: Protect Lives and Properties Against Major Floods - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet			 OO2: Protect Lives and Properties Against Major Floods - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 - Sta. 8+193 (R.S), Sta. 8+125 – Sta. 8+265 (L.S.), Sta. 0+000 – Sta. 0+070 (L.S) , Kapangan, Benguet		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1 - Construction of Flood Mitigation Structure / 720 Lineal meters	₱ 20,416.67 / Lineal meters	₱ 14,700,000.00	CW1 - Construction of Flood Mitigation Structure / 278 Lineal meters	₱ 52,877.70 / Lineal meters	₱ 14,700,000.00
EAO	—	₱ 300,000.00	EAO	—	₱ 300,000.00
Total:		₱ 15,000,000.00	Total:		₱ 15,000,000.00

Justification:

The change in station limits, and the decrease in physical target for CW1 – Construction of Flood Mitigation Structure from 720 lineal meters to 278 lineal meters are due to the following:

- The inclusion of station 8+125 – 8+193 (R.S.) was deemed necessary since this section collapsed during monsoon season. Moreover, the additional section in the right side is needed in order to protect the properties and vegetable production areas which will be affected from the diverted flow of water from the construction of flood control structure in the left side.
- The change in the start station limit was deemed necessary since there is a ROW issue along station 8+073 to station 8+125 (LS). Furthermore, end station was adjusted from 8+433 (LS) to 8+265 (LS) in order to address sections that were heavily damaged during the onslaught of monsoons.

AG-CD-202404-00847

- The increase in the unit cost is due to the change in the design of the proposed structure from rubble concrete to stone masonry with concrete armor and the increase in height of the proposed structure at station 8+125 – 8+193 from 3.0m to 4.5m.
- The station limits were modified in order to address the identified critical sections and to include the bank adjacent to the tributary river that collapsed during the onslaught of monsoons. The tributary river merges with the left side of the main river at Sta. 8+200 and was included since the local road that runs parallel to the tributary is on the verge of collapse. Furthermore, the flood control structure at this section will also serve as a road slope protection structure for the local road which connects Barangay Pongayan and Barangay Central Kapangan, thus Sta. 0+000 – Sta. 0+070 was included. In addition, the designer opted to start the station convention, 0+000 at the junction of the main river and tributary river.
- The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA). Furthermore, the unit cost has been evaluated and reviewed by the Bureau of Construction (BOC). See attached evaluation dated May 2, 2024 from the Bureau of Construction.
- See attached Certificate of Reasonableness of Estimates approved by the Regional Director.

Attached are the following supporting documents: Project Impact Analysis (PIA), Approved Program of Works (POW), Detailed Engineering Design (DED), Certificate of Availability of Funds, BP202, Geotagged Photos, GIS Map, Evaluation from the Bureau of Construction, and 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.


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, and XIII

APPROVED/ ~~DISAPPROVED~~:


MANUEL M. BONOAN

Secretary

Department of Public Works and Highways
Office of the Secretary



WIN4E03426

2.3 mksa/MLS/AVS/RPBG/ERP



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



May 2, 2024

MEMORANDUM

FOR : Undersecretary EUGENIO R. PIPO, JR.
For Regional Operations in CAR, Region I, II, X, XI, XII and XIII

SUBJECT : Request for Approval of Modification of Projects under FY 2024 GAA:

1. 001: Ensure Safe and Reliable National Road System – Asset Preservation – Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide – Tertiary Roads

Gov. Bado Dangwa National Rd – K0299+454 – K0299+489, K0304+930 – K0305+003, K0305+940 – K0306+015, K0308+585 – K0308+650, K0309+780 – K0309+860

2. 001: Ensure Safe and Reliable National Road System – Network Development – Off-Carriageway Improvement – Secondary Roads

Baguio – Bontoc Rd – K0327+250 – K0327+700

3. 002: Protect Lives and Properties Against Major Floods – Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems

Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 – Sta. 8+193 (R.S.), Sta. 8+125 – Sta. 8+265 (L.S.), Sta. 0+000 – Sta. 070 (L.S.), Kapangan, Benguet

Forwarded herewith are the results of the evaluation for the above-mentioned projects, which were referred to this office for review and evaluation.

PROJECT NO. 1

The requested amount of **P18,770,000.00** (inclusive of EAO) for the 920 square meters slope protection structure along Gov. Bado Dangwa National Rd – K0299+454 – K0299+489, K0304+930 – K0305+003, K0305+940 – K0306+015, K0308+585 – K0308+650, K0309+780 – K0309+860, may be considered reasonable as evaluated subject to updating of cost/price prior to bidding based on the items of work involved and its corresponding quantities as reflected in the Approved Program of Works (POW) and Detailed Engineering Design Plan, duly approved by the OIC-District Engineer, Benguet Second District Engineering Office.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
CW-1	Construction of Road Slope Protection Structure		
Part B	Other General Requirements	P 495,281.35	2.69%
Part C	Earthworks	P 726,423.61	3.95%
Part D	Subbase and Base Course	P 190,926.10	1.04%
Part E	Surface Course	P 3,303,216.69	17.96%
Part F	Plain Reinforced Structures	P 12,847,211.93	69.84%
Part G	Drainage and Slope Protection Structures	P 548,618.58	2.98%
Part H	Miscellaneous Structures	P 282,928.01	1.54%
	GRAND TOTAL	P 18,394,606.27	100.00%

Cost per square meter= $\frac{P17,899,324.92}{920 \text{ square meters}}$ = P19,455.79 /square meter
(Except Part B)

The estimated cost of P19,455.79 per square meter of slope protection structure is primarily attributed to the concreting of 268 square meters 0.28-meter thick unreinforced PCCP and 428.80 square meters 0.30-meter thick reinforced PCCP, and 25 meters length of 6-meter height retaining wall, which accounts for 97.31% of the total project cost. Since these are the major items of work for the project, it is considered reasonable as the unit costs of the items involved are within the prevailing cost range of the Department.

PROJECT NO. 2

The requested amount of **P10,916,000.00** (inclusive of EAO) for the 1,853.60 square meters Off-Carriageway Improvement: Paving of Shoulders, Baguio – Bontoc Rd – K0327+250 – K0327+700, may be considered reasonable as evaluated subject to updating of cost/price prior to bidding based on the items of work involved and its corresponding quantities as reflected in the Approved Program of Works (POW) and Detailed Engineering Design Plan, duly approved by the OIC-District Engineer, Benguet Second District Engineering Office.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
CW-1	Off-Carriageway Improvement: Paving of Shoulders		
Part B	Other General Requirements	P 400,695.19	3.75%
Part C	Earthworks	P 221,160.28	2.07%
Part D	Subbase and Base Course	P 256,682.65	2.40%
Part E	Surface Course	P 4,348,159.24	40.65%
Part F	Plain Reinforced Structures	P 593,763.14	5.55%
Part G	Drainage and Slope Protection Structures	P 101,976.59	0.95%
Part H	Miscellaneous Structures	P 123,914.11	1.15%
CW-2	Construction of Road Slope Protection Structure		
Part C	Earthworks	P 295,164.49	2.76%
Part F	Plain Reinforced Structures	P 216,160.43	2.02%
Part G	Drainage and Slope Protection Structures	P 4,140,028.53	38.70%
	GRAND TOTAL	P 10,697,704.65	100.00%

CW-1 Off-Carriageway Improvement: Paving of Shoulders

$$\text{Cost per square meter} = \frac{\text{P5,645,656.01}}{1,853.6 \text{ square meters}} = \text{P3,045.78 /square meter}$$

(Part C, D, E, F, G and H of CW-1)

CW-2 Construction of Road Slope Protection Structure

$$\text{Cost per square meter} = \frac{\text{P4,651,353.45}}{488 \text{ square meters}} = \text{P9,531.46 /square meter}$$

(Part C, F and G of CW-2)

The estimated cost of P3,045.78 per square meter of structure is primarily attributed to the concreting of 983.60 square meters 0.28-meter thick unreinforced PCCP and 870.00 square meters 0.30-meter thick reinforced PCCP, while the P9,531.46 per square meter of structure is majority due to provision of 42 meters 8 meter-height gabion, both of which accounts for 96.25% of the total project cost. Since these are the major items of work for the project, it is considered reasonable as the unit costs of the items involved are within the prevailing cost range of the Department.

PROJECT NO. 3

The requested amount of **P15,000,000.00** (inclusive of EAO) for the Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 – Sta. 8+193 (R.S.), Sta. 8+125 – Sta. 8+265 (L.S.), Sta. 0+000 – Sta. 070 (L.S.), Kapangan, Benguet, may be considered reasonable as evaluated subject to updating of cost/price prior to bidding based on the items of work involved and its corresponding quantities as reflected in the Approved Program of Works (POW) and Detailed Engineering Design Plan, duly approved by the OIC-District Engineer, Benguet Second District Engineering Office.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
CW-1	Construction of Flood Mitigation Structure		
Part B	Other General Requirements	P 1,396,543.64	9.50%
Part D	Subbase and Base Course	P 7,225,398.50	49.15%
Part I	Flood and River Control and Drainage		
Part I-A	Plain Reinforced Structures	P 1,187,305.40	8.08%
Part I-2	Plain Reinforced Structures	P 4,890,762.38	33.27%
	GRAND TOTAL	P 14,700,009.92	100.00%

$$\text{Cost per lineal meter} = \frac{\text{P13,303,466.28}}{278 \text{ lineal meters}} = \text{P47,854.20 /lineal meter}$$

(Except Part B)

The estimated cost of P47,854.20 per lineal meter of structure is primarily attributed to the construction of 178-meter length of stone masonry with reinforced concrete armor, which accounts for 90.50% of the total project cost. Since these are the major items of work for the project, it is considered **reasonable as the unit costs** of the items involved are within the prevailing cost range of the Department.



ALLAN S. BORROMEO, CESO III
Director, Bureau of Construction

cc: Undersecretary ADOR G. CANLAS, CESO IV, for Technical Services and Information Management Service

6.1.1 FDF|CBC|JTS
05022024 Modification Benguet 2nd.docx
Ref. No. BOC- 6.1-336-5301/6.1.1-250-01



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



April 1, 2024

MEMORANDUM

FOR : MANUEL M. BONOAN
Secretary

THRU : EUGENIO R. PIPO, JR.
Undersecretary for Regional Operations
CAR, Regions I, II, IX, X, XI, XII, and XIII

SUBJECT : Request for Modification of the Project: ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties against Major Floods – Flood Management Program - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems - Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet

We are respectfully forwarding the Memorandum dated March 22, 2024 from OIC - District Engineer Rex K. Oya-oy, Benguet 2nd District Engineering Office, regarding the modification of the above project in the amount of **Fifteen Million Pesos (Php 15,000,000.00)** as indicated below:

	FROM	TO
Project ID	P00824668LZ	
Project Title	Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet	Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 - Sta. 8+193 (R.S), Sta. 8+125 – Sta. 8+265 (L.S.), Sta. 0+000 – Sta. 0+070 (L.S) , Kapangan, Benguet
Type of Work	CW1 - Construction of Flood Mitigation Structure	CW1 - Construction of Flood Mitigation Structure
Physical Target	CW1 – 720 Lineal Meters	CW1 – 278 Lineal Meters

The supporting documents based on D.O No. 23, series of 2023 are attached for your ready reference.

For the consideration of the Secretary.


KHADAFF D. TANGGOL
Regional Director

CAR.1 DLBC/EFD/JWC/ABM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BENGUET 2ND DISTRICT ENGINEERING OFFICE
Natubleng, Buguias, Benguet, Cordillera Administrative Region



March 22, 2024

MEMORANDUM

FOR : KHADAFFY D. TANGGOL
Regional Director

THRU : ANGELITA B. MABITAZAN
Chief, Planning and Design Division

SUBJECT : Submission of Requirements for FY 2024 Modification of the project, Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet

Respectfully submitting the requirements for the modification of the FY 2024 project: "Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet" for your endorsement.

FROM			TO		
Project Description					
UACS No. : 320101111727000 ✓ Project ID : P00824668LZ ✓					
Flood Management Program - Construction / Maintenance of Flood Mitigation Structures and Drainage Systems ✓			Flood Management Program - Construction / Maintenance of Flood Mitigation Structures and Drainage Systems ✓		
Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S) , Kapangan, Benguet			Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 - Sta. 8+193 (R.S), Sta. 8+125 – Sta. 8+265 (L.S), Sta. 0+000 – Sta. 0+070 (L.S) , Kapangan, Benguet		
Physical Target	Unit Cost	Allocation	Physical Target	Unit Cost	Allocation
CW-1: Construction of Flood Mitigation Structure			CW-1: Construction of Flood Mitigation Structure		
720 ln.m. ✓	₱ 20,416.67	₱ 14,700,000.00 ✓	278 ln.m.	₱ 52,877.70	₱ 14,700,000.00 ✓
EAO (2%)		₱ 300,000.00 ✓	EAO (2%)		₱ 300,000.00 ✓
TOTAL		₱ 15,000,000.00	TOTAL		₱ 15,000,000.00

For your review.

REX K. OYA-OY
OIC – District Engineer

CAR.17.1/VBC/LDR/EPM

Tables for Modification Request Form

A. GENERAL																							
1. REGION Cordillera Administrative Region		2. DEO Benguet Second 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) 320101111727000																							
5. Project Id P00824668LZ																							
6. Project Category OO2: Protect Lives and Properties against Major Floods																							
7. Sub-Program (P/A/P) Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems																							
8. Operating Unit Benguet Second District Engineering Office			18. Operating Unit (Change subject to DBM approval) Benguet Second District Engineering Office																				
9. Type of Work (Enter Details for all Components below) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Component ID</th> <th style="width: 80%;">Type of Work</th> </tr> </thead> <tbody> <tr> <td>CW1</td> <td>Construction of Flood Mitigation Structure</td> </tr> </tbody> </table>			Component ID	Type of Work	CW1	Construction of Flood Mitigation Structure	19. Type of Work (Enter Details for all Components below) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Component ID</th> <th style="width: 80%;">Type of Work</th> </tr> </thead> <tbody> <tr> <td>CW1</td> <td>Construction of Flood Mitigation Structure</td> </tr> </tbody> </table>			Component ID	Type of Work	CW1	Construction of Flood Mitigation Structure										
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10. PROJECT DESCRIPTION (as recorded in GAA) Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+073 - Sta. 8+433 (L.S), Kapangan, Benguet			20. PROJECT DESCRIPTION (of the revised project) Construction of Flood Mitigation Structure within Amburayan River: along Amburayan River Tributary, Central Kapangan Section, Sta. 8+125 - Sta. 8+193 (R.S), Sta. 8+125 - Sta. 8+265 (L.S.), Sta. 0+000 - Sta. 0+070 (L.S), Kapangan, Benguet																				
11. ALLOTMENT (P'000) (as recorded in GAA) 15,000			21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 15,000		22. CAF (To be obtained from Financial Management office) <input checked="" type="checkbox"/> YES																		
12. PHYSICAL TARGET (Enter Details for all Components below) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Component ID</th> <th style="width: 30%;">Target</th> <th style="width: 50%;">Target Unit</th> </tr> </thead> <tbody> <tr> <td>CW1</td> <td>720</td> <td>Lineal Meters (lm)</td> </tr> </tbody> </table>			Component ID	Target	Target Unit	CW1	720	Lineal Meters (lm)	23. PHYSICAL TARGET (Enter Details for all Components below) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Component ID</th> <th style="width: 30%;">Target</th> <th style="width: 50%;">Target Unit</th> </tr> </thead> <tbody> <tr> <td>CW1</td> <td>278</td> <td>Lineal Meters (lm)</td> </tr> </tbody> </table>			Component ID	Target	Target Unit	CW1	278	Lineal Meters (lm)						
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CW1	14,700	20.41667																					
EAO	300																						
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)																					
CW1	14,700	52.87770																					
EAO	300																						
14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Start X</th> <th style="width: 20%;">120.596770</th> <th style="width: 20%;">End X</th> <th style="width: 20%;">120.594566</th> </tr> </thead> <tbody> <tr> <td>Start Y</td> <td>16.573205</td> <td>End Y</td> <td>16.571966</td> </tr> </tbody> </table>			Start X	120.596770	End X	120.594566	Start Y	16.573205	End Y	16.571966	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) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Start X</th> <th style="width: 20%;">120.596637</th> <th style="width: 20%;">End X</th> <th style="width: 20%;">120.596022</th> </tr> </thead> <tbody> <tr> <td>Start Y</td> <td>16.572765</td> <td>End Y</td> <td>16.572116</td> </tr> </tbody> </table>			Start X	120.596637	End X	120.596022	Start Y	16.572765	End Y	16.572116		
Start X	120.596770	End X	120.594566																				
Start Y	16.573205	End Y	16.571966																				
Start X	120.596637	End X	120.596022																				
Start Y	16.572765	End Y	16.572116																				
15. ROAD CLASSIFICATION (if applicable)			26. ROAD CLASSIFICATION (if applicable)																				
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Benguet Second District Engineering Office			27. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project) Benguet Second District Engineering Office																				

Tables for Modification Request Form

17. PROJECT IMPLEMENTATION PLAN (PIP)

Planned Start Date

04/26/2024

Planned End Date

10/16/2024

28. PROJECT IMPLEMENTATION PLAN (PIP)

Planned Start Date

04/26/2024

Planned End Date

10/16/2024

29. OVERLAP?

☒ NO

☐ YES

30. UNDER WARRANTY?

☒ NO

☐ YES

D. ATTACHMENTS & JUSTIFICATIONS

31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects)

☐ NO

☒ YES

☐ N/A

32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points)

The change in station limits, and the decrease in physical target for CW1 – Construction of Flood Mitigation Structure from 720 lineal meters to 278 lineal meters are due to the following:

- *The inclusion of station 8+125 – 8+193 (R.S.) was deemed necessary since this section collapsed during monsoon season. Moreover, the additional section in the right side is needed in order to protect the properties and vegetable production areas which will be affected from the diverted flow of water from the construction of flood control structure in the left side.*
- *The change in the start station limit was deemed necessary since there is a ROW issue along station 8+073 to station 8+125 (LS). Furthermore, end station was adjusted from 8+433 (LS) to 8+265 (LS) in order to address sections that were heavily damaged during the onslaught of monsoons.*
- *The increase in the unit cost is due to the change in the design of the proposed structure from rubble concrete to stone masonry with concrete armor and the increase in height of the proposed structure at station 8+125 – 8+193 from 3.0m to 4.5m.*
- *The station limits were modified in order to address the identified critical sections and to include the bank adjacent to the tributary river that collapsed during the onslaught of monsoons. The tributary river merges with the left side of the main river at Sta. 8+200 and was included since the local road that runs parallel to the tributary is on the verge of collapse. Furthermore, the flood control structure at this section will also serve as a road slope protection structure for the local road which connects Barangay Pongayan and Barangay Central Kapangan, thus Sta. 0+000 – Sta. 0+070 was included. In addition, the designer opted to start the station convention, 0+000 at the junction of the main river and tributary river.*
- *The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA). Furthermore, the unit cost has been evaluated and reviewed by the Bureau of Construction (BOC). See attached evaluation dated May 2, 2024 from the Bureau of Construction.*
- *See attached Certificate of Reasonableness of Estimates approved by the Regional Director.*

Attached are the following supporting documents: Project Impact Analysis (PIA), Approved Program of Works (POW), Detailed Engineering Design (DED), Certificate of Availability of Funds, BP202, Geotagged Photos, GIS Map, Evaluation from the Bureau of Construction, and Certificate of Reasonableness of Unit Cost.

33. PHOTOS SUBMITTED

☐ NO

☒ YES

34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED

☐ NO

☒ YES

Tables for Modification Request Form

35. PREPARED BY:

Name:


VANESSA B. CHAN

Position: Engineer II

Office:

Benguet 2nd District Engineering Office

Date:

36. REVIEWED BY DISTRICT OFFICE (If Required)

Name:


LAWRENCE D. ROMERO

Position:

OIC - Chief, Planning and Design Section

Date:

38. REVIEWED BY REGIONAL OFFICE

Name:


ANGELITA B. MABITAZAN

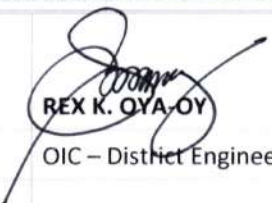
Position:

Chief, Planning and Design Division

Date:

37. RECOMMENDED BY DISTRICT OFFICE (If Required)

Name:


REX K. OYA-OY

Position:

OIC - District Engineer

Date:

39. RECOMMENDED BY REGIONAL OFFICE

Name:


KHADAFFY D. TANGGOL

Position:

Regional Director

Date:

Tables for Modification Request Form

UACS (Unified Account Code Structure as defined in GAA)

320101111727000

Project Id



P00824668LZ

40. DPWH OFFICE OF THE UNDERSECRETARIES FOR OPERATIONS

Primary Reason for Request (based on Category of Modification): (choose one)

Category A	Category B	Category C	Category D	Impact
<input type="checkbox"/> Typographical error on Project Description	<input type="checkbox"/> Overlapping Sections <input type="checkbox"/> Change in Station Limits <input type="checkbox"/> Change in Physical Target	<input type="checkbox"/> No such Barangay <input type="checkbox"/> No such City or Municipality	<input type="checkbox"/> Change in (IO), requiring a change in the (OU)	<input type="checkbox"/> No change or decrease in unit cost <input type="checkbox"/> 20% or less increase in unit cost <input type="checkbox"/> > 20% increase in unit cost

Reviewed by Office of the Undersecretary for Operations

Name:	Engr. MANUEL L. SINGSON	Name:	Engr. ANTONIO V. SOBREVÍÑAS, JR.
Signature		Signature	
Position:	Project Manager I	Position:	Project Manager III
Date:	4/4/24	Date:	4/2/24

41. DPWH PLANNING SERVICE

Category of Modification (please check the appropriate)	<input type="checkbox"/> Category A – Typographical Error <input type="checkbox"/> Category B – Change in Station Limits <input type="checkbox"/> Category C – Change in Location, due to non-existing location <input type="checkbox"/> Category D – Change in Operating Unit (requires DBM approval) <input type="checkbox"/> Modification does not comply with DBM Categories
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Reviewed by Planning Service

Name:	ANNA ANDREA M. NOCHE	Name:	PETER PAUL R. CORTEZ
Signature		Signature:	
Position:	Regional Coordinator	Position:	OIC - Chief of Programming Division
Date:	5-17-24	Date:	