



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:

05/16/2024

P/A/P 1 (001, 002, CSSP, LP):	Appropriation Source:	FY 2024 GAA
ORGANIZATIONAL OUTCOME 1 : Ensure Safe and Reliable National Road System	UACS:	310109101534000
P/A/P 2 (Program):	Project ID:	P00802677LZ
Asset Preservation Program	Region:	Cordillera Administrative Region
P/A/P 3 (Sub-Program):	Implementing Office:	Benguet 2nd District Engineering Office
Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Tertiary Roads	Appropriation (Php):	18,770,000

Name of Project per GAA:

Gov. Bado Dangwa National Rd - K0299 + 454 - K0299 + 489, K0304 + 745 - K0304 + 790, K0305 + 940 - K0306 + 015, K0308 + 585 - K0308 + 650, K0309 + 780 - K0309 + 860, K0311 + 230 - K0311 + 270, K0312 + 005 - K0312 + 020

Implementing Office
A Justification for
Modification:

- The change in station limit was necessary to include identified critical sections along the river bank to support sections that show signs of possible erosion, excluding portions and stations that have stable rock slopes and do not need mitigation structures.
- The decrease in physical target is due to the need to change in design from rubble concrete to stone masonry with concrete armor; and the computed hauling cost of materials.

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.1.2 ☐ Change in Location (for non-existent locations only)
B.1.3 ☒ Change in Station Limits
B.1.4 ☐ Addition/ Deletion of Word/s

B.2 ☒ PROJECT MODIFICATION/ADJUSTMENTS ON PROJECT COMPONENTS

- B.2.1 ☒ Change in Targets
B.2.2 ☐ Change in Scope of Work
B.2.3 ☐ Change in Component Amount
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

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 Road Slope Protection Structure	Construction of Road Slope Protection Structure	1,844.890 sq. meter	920.0 sq. meters	100.53%	-50.13%
CW2	-	Construction of Road Slope Protection Structure	-	488.0 sq. meters	55.55%	-35.71%
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 Unit Cost (100.53% Increase) thru Memorandum dated 02 May 2024, of Director Allan Borromeo.

Evaluated By:

AYEN G. BOTE
Director, Planning Service

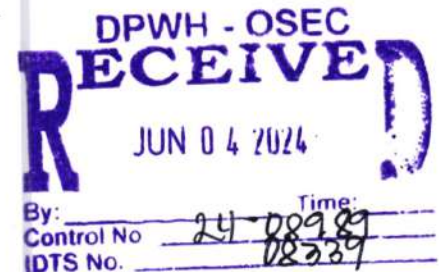
Noted By:

CONSTANTE A. LLANES 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. : 310109101534000 Project ID: P00802677LZ 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+745 - K0304+790, K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860, K0311+230 - K0311+270, K0312+005 - K0312+020			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		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 1,844.89 Square meters	₱ 9,970.57 / Square meters	₱ 18,394,600.00	CW1- Construction of Road Slope Protection Structure / 920 Square meters	₱ 19,994.13/ Square meters	₱ 18,394,600.00
EAO	—	₱ 375,400.00	EAO	—	₱ 375,400.00
Total:		₱ 18,770,000.00	Total:		₱ 18,770,000.00
Justification: The change in station limits and the decrease in physical target for CW1 – Construction of Road Slope Protection Structures from 1,844.89 square meters to 920 square meters are due to the following: <ul style="list-style-type: none">• The decrease in the physical target was deemed necessary since station limits K0311+230 - K0311+270, K0312+005 - K0312+020, and K0304+745 – K0305+790 were removed because these sections were already mitigated by the Maintenance Section.• Station K0304+930 - K0305+003 was included to address the nearby slope that was aggravated during the onslaught of previous monsoons.					

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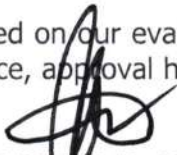
46-CO-202405-01341

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- The decrease in the physical target and the increase in the unit cost were deemed necessary to incorporate reinforced concrete barriers in the road slope protection structures along the cliff side. Additionally, it is essential to reconstruct damaged 280mm thick unreinforced PCCP with a width of 3.35m and varying lengths along various stations: from K0299+454 to K0299+479 (25m long), from K0304+993 to K0305+003 (10m long), from K0305+988 to K0306+015 (27m long), from K0308+585 to K0308+603 (18m long), and a 300mm thick reinforced PCCP with width of 6.70m and is 64m long from station K0309+796 to K0309+860. Moreover, there is also a need to provide drainage structure, additional 910mm dia. RCPC, along identified damaged outlets, and to introduce curb and gutter to sections that are prone to flooding.
- 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: RSM Annexes, 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. PIÑO, 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



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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
CENTRAL OFFICE
Manila



April 17, 2024

MEMORANDUM

TO : **ALLAN S. BORROMELO**
Director, Bureau of Construction
This Department



Referred herewith for evaluation, comments, and/or recommendation are the Memoranda all dated April 01, 2024 of **DPWH-Cordillera Administrative Region (CAR) Director KHADAFFY D. TANGGOL** endorsing the requests of **OIC-District Engineer REX K. OYA-OY**, Benguet 2nd District Engineering Office for the project modification of the hereunder projects covered by FY2024 Annual Infrastructure Program, Based on General Appropriation Act (GAA), to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No. : 310109101534000 Project ID: P00802677LZ 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+745 - K0304+790, K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860, K0311+230 - K0311+270, K0312+005 - K0312+020					
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 1,844.89 Square meters	₱ 9,970.57 / Square meters	₱ 18,394,600.00	CW1- Construction of Road Slope Protection Structure / 920 Square meters	₱ 19,994.13/ Square meters	₱ 18,394,600.00
EAO	–	₱ 375,400.00	EAO	–	₱ 375,400.00
Total:		₱ 18,770,000.00	Total:		₱ 18,770,000.00

As per GAA/Original			As Modified		
Project Description					
UACS No. : 310208100584000 Project ID: P00800274LZ OO1: Ensure Safe and Reliable National Road System - Network Development - Off-Carriageway Improvement - Secondary Roads Baguio-Bontoc Rd - K0317 + 320 - K0317 + 639, K0317 + 750 - K0318 + 100, K0318 + 700 - K0319 + 200			OO1: Ensure Safe and Reliable National Road System - Network Development - Off-Carriageway Improvement - Secondary Roads Baguio-Bontoc Rd - K0327+250 - K0327+700		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1 - Off-Carriageway Improvement: Paving of Shoulders / 5,215.5 Square meters	₱ 2,051.13 / Square meters	₱ 10,697,680.00	CW1 - Off-Carriageway Improvement: Paving of Shoulders / 1,853.6 Square meters	₱ 3,261.94 / Square meters	₱ 6,046,329.00
			CW2 - Construction of Road Slope Protection Structure / 488 Square meters	₱ 9,531.46 / Square meters	₱ 4,651,351.00
EAO	—	₱ 218,320.00	EAO	—	₱ 218,320.00
Total:		₱ 10,916,000.00	Total:		₱ 10,916,000.00

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			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			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

Attached for reference are the pertinent documents to support the request.

EUGENIO B. PIRO, JR.
 Undersecretary for Regional Operations
 in CAR, Regions I, II, IX, X, XI, XII and XIII



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 1: 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 + 745 - K0304 + 790, K0305 + 940 - K0306 + 015, K0308 + 585 - K0308 + 650, K0309 + 780 - K0309 + 860, K0311 + 230 - K0311 + 270, K0312 + 005 - K0312 + 020

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 **Eighteen Million Seven Hundred Seventy Thousand Pesos (Php 18,770,000.00)** as indicated below:

	FROM	TO
Project ID	P00802677LZ	
Project Title	Gov. Bado Dangwa National Rd - K0299 + 454 - K0299 + 489, K0304 + 745 - K0304 + 790 , K0305 + 940 - K0306 + 015, K0308 + 585 - K0308 + 650, K0309 + 780 - K0309 + 860, K0311 + 230 - K0311 + 270, K0312 + 005 - K0312 + 020	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
Type of Work	CW1 - Construction of Road Slope Protection Structure	CW1 - Construction of Road Slope Protection Structure
Physical Target	CW1 - 1,704.89 Square Meters	CW1 - 920 Square 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.

KHADAFEL D. TANGGOL
Regional Director

CAR.1 DLBC/EFD/JWC/ABM



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, Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide – Tertiary Roads along Gov. Bado Dangwa National Rd - K0299+454 - K0299+489, K0304+745 - K0304+790, K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860, K0311+230 - K0311+270, K0312+005 - K0312+020

Respectfully submitting the requirements for the modification of the FY 2024 project: "Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Tertiary Roads along Gov. Bado Dangwa National Rd - K0299+454 - K0299+489, K0304+745 - K0304+790, K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860, K0311+230 - K0311+270, K0312+005 - K0312+020" for your endorsement.

FROM			TO		
Project Description					
UACS No. : 310109101534000 Project ID : P00802677LZ					
Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Tertiary Roads			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+745 - K0304+790 , K0305+940 - K0306+015, K0308+585 - K0308+650, K0309+780 - K0309+860, K0311+230 - K0311+270 , K0312+005 - K0312+020			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		
Physical Target	Unit Cost	Allocation	Physical Target	Unit Cost	Allocation
CW-1: Construction of Road Slope Protection Structure			CW-1: Construction of Road Slope Protection Structure		
1,844.89 sq.m	₱ 9,970.57	₱ 18,394,600.00	920 sq.m	₱ 19,994.13	₱ 18,394,600.00
EAO (2%)		₱ 375,400.00	EAO (2%)		₱ 375,400.00
TOTAL		₱ 18,770,000.00	TOTAL		₱ 18,770,000.00

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

4. UACS (Unified Account Code Structure as defined in GAA)

310109101534000 ✓

5. Project Id

P00802677LZ ✓

6. Project Category

OO1: Ensure Safe and Reliable National Road System ✓

7. Sub-Program (P/A/P)

Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Tertiary Roads ✓

8. Operating Unit

Benguet Second District Engineering Office ✓

9. Type of Work (Enter Details for all Components below)

Component ID	Type of Work
CW1	Construction of Road Slope Protection Structure ✓

10. PROJECT DESCRIPTION (as recorded in GAA)

Gov. Bado Dangwa National Rd - K0299 + 454 - K0299 + 489, K0304 + 745 - K0304 + 790, K0305 + 940 - K0306 + 015, K0308 + 585 - K0308 + 650, K0309 + 780 - K0309 + 860, K0311 + 230 - K0311 + 270, K0312 + 005 - K0312 + 020 ✓

11. ALLOTMENT (P'000) (as recorded in GAA)

18,770

12. PHYSICAL TARGET (Enter Details for all Components below)

Component ID	Target	Target Unit
CW1	1,844.89 ✓	Square Meters (m2)

13. UNIT COST (Enter Details for all Components below)

Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)
CW1	18,394.6 ✓	9.97057 ✓
EAO	375.4 ✓	

14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014)

Start X End X
Start Y End Y

15. ROAD CLASSIFICATION (if applicable)

Tertiary Road

16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project)

C. PROPOSED REVISED PROJECT

18. Operating Unit (Change subject to DBM approval)

Benguet Second District Engineering Office ✓

19. Type of Work (Enter Details for all Components below)

Component ID	Type of Work
CW1	Construction of Road Slope Protection Structure ✓

20. PROJECT DESCRIPTION (of the revised project)

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 ✓

21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment)

18,770

22. CAF (To be obtained from Financial Management office)

☒ YES

23. PHYSICAL TARGET (Enter Details for all Components below)

Component ID	Target	Target Unit
CW1	920 ✓	Square Meters (m2)

24. UNIT COST (Enter Details for all Components below)

Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)
CW1	18,394.6 ✓	19.99413 ✓
EAO	375.4 ✓	

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)

Start X End X
Start Y End Y

26. ROAD CLASSIFICATION (if applicable)

Tertiary Road

27. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project)

Tables for Modification Request Form

Benguet Second District Engineering Office

17. PROJECT IMPLEMENTATION PLAN (PIP)

Planned Start Date
04/26/2024

Planned End Date
10/17/2024

Benguet Second District Engineering Office

28. PROJECT IMPLEMENTATION PLAN (PIP)

Planned Start Date
04/26/2024

Planned End Date
10/17/2024

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 Road Slope Protection Structures from 1,844.89 square meters to 920 square meters are due to the following:

- The decrease in the physical target was deemed necessary since station limits K0311+230 - K0311+270, K0312+005 - K0312+020, and K0304+745 - K0305+790 were removed because these sections were already mitigated by the Maintenance Section.
- Station K0304+930 - K0305+003 was included to address the nearby slope that was aggravated during the onslaught of previous monsoons.
- The decrease in the physical target and the increase in the unit cost were deemed necessary to incorporate reinforced concrete barriers in the road slope protection structures along the cliff side. Additionally, it is essential to reconstruct damaged 280mm thick unreinforced PCCP with a width of 3.35m and varying lengths along various stations: from K0299+454 to K0299+479 (25m long), from K0304+993 to K0305+003 (10m long), from K0305+988 to K0306+015 (27m long), from K0308+585 to K0308+603 (18m long), and a 300mm thick reinforced PCCP with width of 6.70m and is 64m long from station K0309+796 to K0309+860. Moreover, there is also a need to provide drainage structure, additional 910mm dia. RCPC, along identified damaged outlets, and to introduce curb and gutter to sections that are prone to flooding.
- 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: RSM Annexes, 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

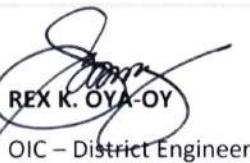
Position:

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)

310109101534000

Project Id

P00802677LZ

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

41. DPWH PLANNING SERVICE

Category of Modification (please check the appropriate)	<input type="checkbox"/> Category A – Typographical Error <input checked="" 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:	5-16-24	Date:	

ANNEX A: Project Work Location Details for National Roads

[illegible]