



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

April 24, 2023

MEMORANDUM

TO : **KHADAFFY D. TANGGOL**
Regional Director
DPWH-CAR
Engineer's Hill, Baguio City

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 Control along Lamut River, Sta. 18 + 300 - **Sta. 18 + 900**, (Lawig Side), Lamut, Ifugao - - - **P39,500,000.00**
2. OO2: Protect Lives and Properties Against Major Floods - Construction/ Maintenance of Flood Mitigation Structures and Drainage Systems Construction of Flood Control along Tinoc River, Sta. 98 + 960 - **Sta. 99 + 440**, (Manaan Section), Tinoc, Ifugao - - - **P33,170,000.00**
3. OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Primary Roads Kennon Rd - **K0241 + 798 - K0241 + 920** - - - **P100,000,000.00**

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.

OIC-Assistant Secretary for Technical Services
and Information Management Service, and
OIC – Office of Assistant Secretary for Regional Operations
in CAR, Regions I, II, IX, X, XI, XII, and XIII

2.3 mksa/AVS/AGC/ERP



Programming Division Evaluation Sheet

Name of Project:

Project ID: **P00714213LZ**

Kennon Rd - K0241 + (-060) - K0241 + 100

Appropriation: 100,000,000

Implementing Office: Regional Office CAR

Date: 03/31/2023

A. TYPE OF REQUEST**A.1** ☐ **Change in Implementing Office/Operating Unit due to**A.1.1 ☐ Geographical JurisdictionA.1.2 ☐ Approval of Authority to Bid/Implement**A.2** ☒ **PROJECT MODIFICATION/ADJUSTMENTS**A.2.1 ☐ Typographical Error/sA.2.2 ☐ Change in Location (for non-existent locations only)A.2.3 ☒ Change in Station LimitsA.2.4 ☐ Addition/Deletion of Word/sA.2.5 ☒ Change in Project Component/s DetailsA.2.5.1 ☒ Change in TargetsA.2.5.2 ☐ Change in Scope of Work from _____

to _____

A.2.5.3 ☐ Change in Component AmountA.2.5.4 ☐ Addition of Component (incl. EXC Component)A.2.5.5 ☐ Deletion of ComponentA.2.5.6 ☐ Movement of Funds between Components

DPWH - OSEC
RECEIVED
APR 19 2023

By: _____ Time: _____
 Control No. 23-86930
 IDTS No. 06117

B. EVALUATIONB.1 ☒ ALLOWED as per the GAA ProvisionsB.2 ☐ NOT ALLOWED as per the GAA Provisions**C. FUND SOURCE FY 2023 GAA, R.A. 11936**C.1 ☒ for issuance of SARO (☐ Released ☐ Unreleased)

Amount: 100,000,000

C.2 ☐ released thru GAAAO**D. IMPACT:**

D.1 Condition/s: _____ % decrease in unit cost
 _____ 86.39 % increase in unit cost
 _____ 46.35 % decrease in physical target
 _____ % increase in physical target

D.2 ☐ Additional Project ComponentD.3 ☒ Certificate of Cost Reasonableness by RD

D.4 Remarks: _____

E. Approving Authority as per D.O. 13, s. 2023, Guidelines on Modification of Allotment under the GAAE.1 ☐ Undersecretary for OperationsE.2 ☒ Secretary

Evaluated By:

ALEX G. BOTE

Director, Planning Service

Noted By:

CONSTANTE ALLANES, JR., CESO III

Assistant Secretary, Planning Service

Project ID:

P00714213LZ

FOR: USEC FOR OPERATIONS

ACTION SLIP

☐ RRB☒ ERP☐ EKS

Date: _____

REMARKS:

☒ Reviewed by Planning Service☐ 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

March 30, 2023

MEMORANDUM

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

This refers to the memorandum dated 20 March 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, requesting for the **modification** of the project under FY 2023 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No.:310107100455000 Project ID:P00714213LZ					
OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Primary Roads			OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Primary Roads		
Kennon Rd - K0241 + (-060) - K0241 + 100			Kennon Rd - K0241 + 798 - K0241 + 920		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 5,555.56 sq.m.	₱ 17,370.00/ sq.m.	₱ 96,500,000.00	CW1- Construction of Road Slope Protection Structure / 2,980.6 sq.m.	₱ 32,376.03 / sq.m.	₱ 96,500,000.00
EAO	—	₱ 3,500,000.00	EAO	—	₱ 3,500,000.00
Total:		₱100,000,000.00	Total:		₱100,000,000.00

Justification:

Change in Station Limits in the Project Description and Decrease in physical target for CW1 - Construction of Road Slope Protection Structure from 5,555.56 Square Meters to 2,980.6 Square Meters due to the following:

- The change in station limits was deemed necessary to address the critical areas along the road section requiring immediate slope intervention. *Shotcrete w/ rockfall Netting.*
- The decrease in the physical target/ increase in unit cost for CW1 is due to the use of shotcrete spray with high tensile wire mesh, and lengthening of the permanent ground anchor/ soil nails from 5 meters to 7 meters as recommended in the design analysis. Further, the utilization of the prevailing construction cost of materials which mainly involve Carbon Steel/ High Tensile Wire Mesh, Soil Nail and Shotcrete with Reinforcing Steel contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection.
- See attached evaluation of the Bureau of Construction (BOC) dated March 29, 2023.
- The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA).

Attached are the following supporting documents: Approved Program of Works (POW) with Detailed Unit Price Analysis (DUPA), Detailed Engineering Design (DED), Certificate of Availability of Funds (CAF), BP 202, Geotagged photos, Certificate of Reasonableness, RSM Forms and GIS Map.


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

ADOR G. CANLAS

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. RIPO, 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/MLS/AVS/AGC/ERP

Department of Public Works and Highways
Office of the Secretary





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

March 29, 2023

MEMORANDUM

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

SUBJECT : OO1: Ensure Safe and Reliable National Road System – Asset Preservation – Rehabilitation/Reconstruction of National Roads with Slips, Slope Collapse, and Landslide – Primary Roads, Kennon Road, K0241+798 - K0241+920

Forwarded herewith is the result of review/evaluation for the above-mentioned subject project which was referred to this Office per memorandum dated March 23, 2023, for evaluation, comments, and/or recommendation.

The requested amount of **Php 100,000,000.00** (inclusive of EAO) for 2,980.60 square meter of Road Slope Protection Structure 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 submitted Program of Works (POW) and Detailed Engineering Design Plan (DED) duly approved by the Regional Director, Cordillera Administrative Region (CAR).

SCOPE OF WORK

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	Php 264,169.38	0.27%
Part B	Other General Requirements	Php 1,331,312.76	1.38%
Part C	Earthwork	Php 317,725.10	0.33%
Part D	Subbase and Base Course	Php 44,392.87	0.05%
Part E	Surface Courses	Php 697,884.06	0.72%
Part F	Bridge Construction	Php 293,892.84	0.31%
Part G	Drainage and Slope Protection Structures	Php 93,538,232.99	96.93%
Part H	Miscellaneous Structures	Php 12,390.00	0.01%
	GRAND TOTAL	Php 96,500,000.00	100.00%

Cost per sq.m. of Slope Protection Structure = $\frac{\text{Php } 94,904,517.86}{2,980.60 \text{ sq.m.}}$ = Php 31,840.74/sq.m. (excluding Parts A & B)

PCD 462/4

Cost per sq.m. of Slope Protection Structure = $\frac{\text{Php } 83,028,880.04}{2,980.60 \text{ sq.m.}}$ = Php 27,856.43/sq.m.
(excluding Parts A, B & 514(1))

The estimated cost of **Php 31,840.74** per square meter for the Rehabilitation/Reconstruction of National Roads with Slips, Slope Collapse, and Landslide – Primary Roads, Kennon Road, K0241+798 - K0241+920 in Baguio City is apparently high due to the design requirements of Road Slope Protection which involves a design length of 7 meter for galvanized permanent ground anchor/soil nail, 100 mm thick shotcrete with reinforcing steel (dowel bar) and provision of high tensile wire mesh as reflected in the approved Detailed Engineering Design Plan, which account to 96.93% of the total project cost. However, if shotcreting works is excluded in the computation, the resulting cost is only **Php 27,856.43** per square meter, hence, it is considered reasonable as the unit cost of each pay item is within the range of the prevailing cost of the Department.



ARISTARCO M. DOROY

OIC-Director, Bureau of Construction

Cc: Undersecretary MAXIMO L. CARVAJAL, Information Management and Technical Services
Assistant Secretary ERIC A. AYAPANA, Information Management and Technical Services

6.1.1 DDO/CBC/JTS

032223 Modification_Kennon Road, K0241+798-K0241+920

Ref. Nos. : 6.1-476-3624/6.1.1-34-01

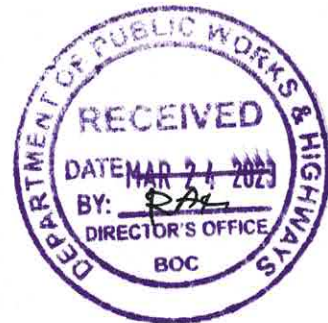


Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

March 23, 2023

MEMORANDUM

TO : **ARISTARCO M. DOROY**
Director, Bureau of Construction
This Department



Referred herewith for your evaluation, comments, and/or recommendation is the Memorandum dated March 20, 2023 of **DPWH-Cordillera Administrative Region (CAR) Director KHADAFY D. TANGGOL** requesting for the project modification of the hereunder project covered by FY2023 Annual Infrastructure Program Based on General Appropriation Act (GAA), to wit;

As per GAA/Original			As Modified		
Project Description					
UACS No.: 310107100455000 Project ID: P00714213LZ					
OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Primary Roads			OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Primary Roads		
Kennon Rd - K0241 + (-060) - K0241 + 100			Kennon Rd - K0241 + 798 - K0241 + 920		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 5,555.56 sq.m.	P 17,370.00/ sq.m.	P 96,500,000.00	CW1- Construction of Road Slope Protection Structure / 2,980.6 sq.m.	P 32,376.03/ sq.m.	P 96,500,000.00
EAO	—	P 3,500,000.00	EAO	—	P 3,500,000.00
Total:		P 100,000,000.00	Total:		P 100,000,000.00

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

Your priority action on the matter is highly anticipated.

EUGENIO R. PIHO, 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

March 20, 2023

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 the Modification of the Project: ORGANIZATIONAL OUTCOME 1 : Ensure Safe and Reliable National Road System - Asset Preservation Program - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Primary Roads - Kennon Rd - K0241 + (-060) - K0241 + 100

We are respectfully submitting the modification of the above project in the amount of **One Hundred Million Pesos (Php 100,000,000.00)**, as indicated below:

	As per GAA/Original	As Modified
Project ID	P00714213LZ	
UACS	310107100455000	
Project Title	Kennon Rd – K0241 + (-060) - K0241 + 100	Kennon Rd – K0241 + 798 - K0241 + 920
Physical Target	5,555.556 Square meters	2,980.600 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.


KHADAFFY D. TANGGOL
Regional Director

CAR.1 CSCE/EFD/JWC/ABM

Tables for Modification Request Form

A. GENERAL

1. REGION

Cordillera Administrative Region

2. DEO

Baguio City District Engineering Office

3. LEGISLATIVE DISTRICT

BAGUIO CITY (LONE DISTRICT)

B. ORIGINAL PROJECT

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

310107100455000

5. Project Id

P00714213LZ

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 - Primary Roads

8. Operating Unit

Central 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)

Kennon Rd - K0241 + (-060) - K0241 + 100

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

100,000

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

Component ID	Target	Target Unit
CW1	5,555.56	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	96,500.000	17.370
EAO	3,500.000	

C. PROPOSED REVISED PROJECT

18. Operating Unit (Change subject to DBM approval)

Central 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)

Kennon Rd - **K0241 + 798 - K0241 + 920**

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

100,000

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	2,980.600	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	96,500.000	32.37603
EAO	3,500.000	


Tables for Modification Request Form

14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014) Click here to enter text.				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) Click here to enter text.			
Start X		End X		Start X		End X	
Start Y		End Y		Start Y		End Y	
15. ROAD CLASSIFICATION (if applicable) Primary Road				26. ROAD CLASSIFICATION (if applicable) Primary Road			
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Cordillera Administrative Region				27. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project) Cordillera Administrative Region			
17. PROJECT IMPLEMENTATION PLAN (PIP)				28. PROJECT IMPLEMENTATION PLAN (PIP)			
Planned Start Date		Planned End Date		Planned Start Date		Planned End Date	
05/21/2023		02/14/2024		05/21/2023		02/14/2024	
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 type="checkbox"/> YES <input checked="" type="checkbox"/> N/A
32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points) Change in Station Limits in the Project Description and Decrease in physical target for CW1 - Construction of Road Slope Protection Structure from 5,555.56 Square Meters to 2,980.6 Square Meters due to the following: <ul style="list-style-type: none"> The change in station limits was deemed necessary to address the critical areas along the road section requiring immediate slope intervention. The decrease in the physical target/ increase in unit cost for CW1 is due to the use of shotcrete spray with high tensile wire mesh, and lengthening of the permanent ground anchor/ soil nails from 5 meters to 7 meters as recommended in the design analysis. Further, the utilization of the prevailing construction cost of materials which mainly involve Carbon Steel/ High Tensile Wire Mesh, Soil Nail and Shotcrete with Reinforcing Steel contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection. See attached evaluation of the Bureau of Construction (BOC) dated March 29, 2023. The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA). Attached are the following supporting documents: Approved Program of Works (POW) with Detailed Unit Price Analysis (DUPA), Detailed Engineering Design (DED), Certificate of Availability of Funds (CAF), BP 202, Geotagged photos, Certificate of Reasonableness, RSM Forms and GIS Map.
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

Tables for Modification Request Form

35. PREPARED BY:	
Name:  ERLINDA F. DOLIENTE	Position: Chief, Planning Section
Office: Planning and Design Division	Date:
36. REVIEWED BY DISTRICT OFFICE (If Required)	
Name:	Position:
Position:	Date:
Date:	
38. REVIEWED BY REGIONAL OFFICE	
Name:  ANGELITA B. MABITAZAN	Position: Chief, Planning and Design Division
Position:	Date:
Date:	
37. RECOMMENDED BY DISTRICT OFFICE (If Required)	
Name:	Position:
Position:	Date:
Date:	
39. RECOMMENDED BY REGIONAL OFFICE	
Name:  KHADAFFY D. TANGGOL	Position: Regional Director
Position:	Date:
Date:	

Tables for Modification Request Form

UACS (Unified Account Code Structure as defined in GAA)

310107100455000

Project Id

P00714213LZ

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 II
Date:	3/30/23	Date:	3/30/23

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
---	--

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:	3/23/30	Date:	

ANNEX A: Project Work Location Details for National Roads

Component ID	Section ID	Start Limit LRP + Disp	End Limit LRP + Disp	Start Chainage	End Chainage	Length (m)	Type of Work	Detail Scope of Work	Target Unit	Physical Target
P00714213LZ - CW1	S00407LZ	K0241 + 798	K0241 + 920	908	1030	122	Construction of Road Slope Protection Structure	Shotcrete with Soilnailing (R/S) with reblocking	Square Meters	2980.6