

OFFICE OF THE SECRETARY

Manila

March 29, 2023

MEMORANDUM

TO

KHADAFFY D. TANGGOL

Regional Director DPWH-CAR

Engineer's Hill, Baguio City

Transmitted herewith is the **APPROVED** request for the **modification** of hereunder stated project:

OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Secondary Roads Benguet-Nueva Vizcaya Rd - K0283 + 368 - K0283 + 475 - - - P250,000,000.00

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.

ADOR G. CANLAS

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

2.3 mksa/AVS/AGC/ERP



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Manila

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Name o	of Proj	ect:							Project ID:	P00715113LZ
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Implen	nenting	Office:	****	nal Office C	AR				Date:	03/24/2023
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MARIA CATALINA E. CABRAL, CESO I, Ph.D. Undersecretary for Planning and PPP Services



OFFICE OF THE SECRETARY

Manila

March 22, 2023

MEMORANDUM

FOR

MANUEL M. BONOAN

Secretary

This Department

This refers to the memorandum dated 14 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/Origina			As Modified	
		Project D	escription		
UACS No.: 31010810 Project ID: P007151					
OO1: Ensure Safe and R Preservation - Rehabilita Slips, Slope Collapse, an	ation/ Reconstruction	on of Roads with	OO1: Ensure Safe and F Preservation - Rehabilita Slips, Slope Collapse, ar	ation/ Reconstruction	n of Roads with
Benguet-Nueva Vizcaya K0283 + 800 - K0283 +		- K0283 + 755,	Benguet-Nueva Vizcaya	Rd - K0283 + 368	8 - K0283 + 475
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 13,888.89 sq.m.	₱ 17,370.00/ sq.m.	₱ 241,250,000.00	CW1- Construction of Road Slope Protection Structure / 9,695 sq.m.	24,883.96 / sq.m.	₱ 241,250,000.00
EAO	-	₱ 8,750,000.00	EAO	_	₱ 8,750,000.00
	Total:	₱ 250,000,000.00	1. 1. 11	Total:	₱ 250,000,000.00
• The change in	m 13,888.89 Square	e Meters to 9,695 Squa	in physical target for CW: are Meters due to the folk address the critical areas	owing:	

- immediate slope intervention.
- The decrease in the physical target/ increase in unit cost for CW1 is due to the design length of 5-meter permanent ground anchors as recommended in the design analysis. The project utilized the Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) which contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection.
- 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, Evaluation of the Bureau of Construction on the unit cost of the similar type projects, RSM Forms and GIS Map.

UACS No.: 310108101305000 Project ID: P00715113LZ

Page 2 of 2

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

Undersecretary for Degional 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



OFFICE OF THE SECRETARY

Manila

March 22, 2023

MEMORANDUM

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FOR

MANUEL M. BONOAN

Secretary

This Department

This refers to the memorandum dated 14 March 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, requesting for the **modification** of the project under FY 2023 GAA, to wit:

Critique Mily	
As per GAA/Original	As Modified
	Description
UACS No.: 310108101305000	
Project ID: P00715113LZ	
OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Secondary Roads	OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Rehabilitation/ Reconstruction of Roads with Slips, Slope Collapse, and Landslide - Secondary Roads
Benguet-Nueva Vizcaya Rd - K0283 + 690 - K0283 + 755, K0283 + 800 - K0283 + 930	Benguet-Nueva Vizcaya Rd - K0283 + 368 - K0283 + 475

10203 1 000 10203 1	300				
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Road Slope Protection Structure / 13,888.89 sq.m.	₱ 17,370.00/ sq.m.	₱ 241,250,000.00	CW1- Construction of Road Slope Protection Structure / 9,695 sq.m.	₱ 24,883.96 / sq.m.	₱ 241,250,000.00
EAO	_	₱ 8,750,000.00	EAO	 -	₱ 8,750,000.00
	Total:	₱ 250,000,000.00		Total:	₱ 250,000,000.00

Justification:

Change in Station Limits in the Project Description and Decrease in physical target for CW1 - Construction of Road Slope Protection Structure from 13,888.89 Square Meters to 9,695 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.
- The decrease in the physical target/ increase in unit cost for CW1 is due to the design length of 5-meter permanent ground anchors as recommended in the design analysis. The project utilized the Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) which contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection.
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UACS No.: 310108101305000 Project ID: P00715113LZ

Page 2 of 2

Based on our evaluation, the submitted request for modification of the said project is in order; herice, 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

EUGENIA R.

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

APPROVED/DISAPPROVED:

BONOAN

2.3 mksa/MLS/AVS/AGC/ERP



CORDILLERA ADMINISTRATIVE REGION

Engineer's Hill, Baguio City

MAR 1 4 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 - Secondary Roads - Benguet-Nueva Vizcaya Rd - K0283 + 690 - K0283 + 755, K0283

+ 800 - K0283 + 930

We are respectfully submitting the modification of the above project in the amount of **Two Hundred Fifty Million Pesos (Php 250,000,000.00)**, as indicated below:

	As per GAA/Original	As Modified
Project ID	P00715113LZ	
UACS	310108101305000	
Project Title	Benguet-Nueva Vizcaya Rd – K0283 + 690 - K0283 + 755, K0283 + 800 - K0283 + 930	Benguet-Nueva Vizcaya Rd – K0283 + 368 - K0283 + 475
Physical Target	13,888.890 Square meters	9,695.000 Square meters

The supporting documents based on D.O. No. 13, series of 2023 are attached for your ready reference.

For the consideration of the Secretary.

KHADAFFYD. TANGGOL

Regiona Director

CAR.1 CACE/IFD/JWC/ABM

Telefax: (074) 444-6460/(074) 444-8838

E-mail address: dpwh_car@dpwh.gov.ph

CORDILLERA ADMINISTRATIVE REGION

Engineer's Hill, Baguio City

MAR 1 4 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

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For the consideration of the Secretary.

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Regiona Director

CAR.1 CSCE/EFD/JWC/ABM

Telefax: (074) 444-6460/(074) 444-8838

E-mail address: dpwh_car@dpwh.gov.ph

• •		Α. (GENERAL				
1. REGION Cordillera Admini	strative Region	2. DEO Benguet First Distr	ict Engineering Office			YE DISTRICT NE DISTRICT)	
	B. ORIGINAL PROJECT		C. P	ROPOSED REV	ISED PRO	JECT	
4. UACS (Unified A 310108101305000	Account Code Structur	re as defined in GAA	1)				
5. Project ld P00715113LZ							
6. Project Categor OO1: Ensure Safe	y and Reliable National	Road System					
7. Sub-Program (P Asset Preservation	r/A/P) n - Rehabilitation/ Reco	onstruction of Road	s with Slips, Slope Co	llapse, and Lan	dslide - Se	econdary Roads	
8. Operating Unit Central Office			18. Operating Unit Central Office	(Change subje	ct to DBM	l approval)	
9. Type of Work (Enter Details for all Co	omponents below)	19. Type of Work (Enter Details for all Components below)				
Component ID	Type of Work		Component ID Type of Work				
CW1	Construction of I		CW1 Construction of Road Slope Prote			ad Slope Protection	
	CRIPTION (as recorded zcaya Rd - K0283 + 69 83 + 930		20. PROJECT DESCR Benguet-Nueva Vizo	080			
11. ALLOTMENT (250,000	P'000) (as recorded in	GAA)	21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 250,000 22. CAF (To be obtained from Financial Management office of the company			nancial	
below)	GET (Enter Details for		23. PHYSICAL TARG		ils for all		
Component ID	Target	Target Unit	Component ID	Target		Target Unit	
CW1 13,888.89 Square Meters (m2)		CW1 9,695 /		Square Meters (m2)			
13. UNIT COST (E	nter Details for all Cor	mponents below)	24. UNIT COST (Ent	er Details for a	all Compo	nents below)	
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)	Component ID	Compone (P'000)	nt Cost	Target Unit Cost (P'000/Target Unit)	
CW1	241,250.000	17.37	CW1	241,250.0	000	24.88396	
EAO	8,750.000		EAO	8,750.000			

Start Y End Y 26. ROAD CLASSIFICATION (if applicable) Secondary Road Secondary Road 27. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Cordillera Administrative Region Cordillera Administrative Region Cordillera Administrative Region 28. PROJECT IMPLEMENTATION PLAN (PIP) Planned Start Date Planned End Date Planned End Date		RK LOCATION (Must DO 65 Series 2014)	t be defined in strict	accordance with D	K LOCATION (Must be defined in strict O 65 Series 2014. Also complete "ANNEX A"				
Start Y End Y Start Y End Y 26. ROAD CLASSIFICATION (if applicable) Secondary Road 16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Cordillera Administrative Region Cordillera Administrative Region 77. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project) Cordillera Administrative Region 78. PROJECT IMPLEMENTATION PLAN (PIP) Planned Start Date Planned End Date Planned End Date Planned Start Date Planned Start Date Planned Start Date Planned Find Date 05/21/2023 04/14/2024 29. OVERLAP? NO □ YES D. ATTACHMENTS & JUSTIFICATIONS 31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects) □ NO □ YES D. ATTACHMENTS & JUSTIFICATIONS 32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format, minimum of 2 points) Change in Station Limits in the Project Description and Increase in physical target for CW1 - Construction of Road Slope Protection Structure from 13,888.89 Square Meters to 9,695 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. • The decrease in the physical target/ increase in unit cost for CW1 is due to the design length of 5-meter permanent ground anchors as recommended in the design analysis. The project utilized the Erosion Control Mac (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) which contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection. • 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 Work (POW) with Detailed Unit Price Analysis (DUPA). Permanent Ground of the Bureau of Construction on the unit cost of the similar type projects, RSM Forms and GIS Map.	Click here to ent	er text.		Manual Property of the Party of	The contract of the contract o				
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 NO			D. ATTACHMEN	NTS & JUSTIFICATION	VS				
 Change in Station Limits in the Project Description and Increase in physical target for CW1 - Construction of Road Slope Protection Structure from 13,888.89 Square Meters to 9,695 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. The decrease in the physical target/ increase in unit cost for CW1 is due to the design length of 5-meter permanent ground anchors as recommended in the design analysis. The project utilized the Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) which contributed to the increase in unit cost thereon causing a deduction in the target area of the proposed slope protection. 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, Evaluation of the Bureau of Construction on the unit cost of the similar type projects, RSM Forms and GIS Map. 				ntrol Projects)					
TNO MYES		n Limits in the Projec ure from 13,888.89 S	t Description and Incre Square Meters to 9,69	ease in physical targe 5 Square Meters due	et for CW1 - Construction of Road Slope to the following:				
34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED	Protection Struct The cha immedia The dec ground Perman increase The deri Attached are the j DUPA), Detailed Reasonableness, I Map. 33. PHOTOS SUB	ate slope intervention rease in the physical anchors as recomme ent Ground Anchor, it in unit cost thereon ived unit cost is base following supporting Engineering Design (Evaluation of the Bur	target/increase in un ended in the design and Hydroseeding and Act causing a deduction in d on the approved Pro documents: Approved DED), Certificate of Av reau of Construction of	alysis. The project ut ive Wire Mesh Syster In the target area of t Igram of Work (POW Id Program of Works (Ivailability of Funds (C In the unit cost of the	e to the design length of 5-meter permanent ilized the Erosion Control Mat (Type 4), m (High Tensile) which contributed to the the proposed slope protection. () with Detailed Unit Price Analysis (DUPA) (POW) with Detailed Unit Price Analysis (AF), BP 202, Geotagged photos, Certificate of				

Tables for Modification Request Form

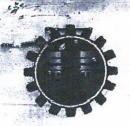
	△ 1 . 35.	PREPARED BY	•
Name:	ERLINGA F. DOLIENTE	Position:	Chief, Planning Section
Office:	Planning and Design Division	Date:	
36. REVIE	EWED BY DISTRICT OFFICE (If Required)		38. REVIEWED BY REGIONAL OFFICE
Name:		Name:	ANGELITA B. MABITAZAN
Position:		Position:	Chief, Planning and Design Division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

Tables for Modification Request Form

UACS (Unified A 3101081013050	Account Code Struc 000	ture as defi	ned in GAA)					
Project Id P00715113LZ								
	40. D	PWH OFFIC	E OF THE UNDERS	ECRETA	RIES FOR OPERAT	IONS		
Primary Reasor	n for Request (base	d on Catego	ory of Modification	n): (choo	se one)			
Category A	Category B		Category C	Cat	egory D	Impact		
☐ Typographi error on Project Description	Sections Change i	Change in Physical		ay 🗆 or	Change in (IO), requiring a change in the (OU)	 □ No change or decrease in unit cost □ 20% or less increase in unit cost □ > 20% increase in unit cost 		
	F	Reviewed b	y Office of the Und	lersecre	ary for Operation	ns		
Name:	Engr. MANUEL	L. SINGSOF	J		Engr. ANTONIO \	v. sobreviñas, jr.		
Signature		1			p	18		
Position:	Project Manag	er I		Project Manager II				
Date:	3	mps		3/2/23				
			41. DPWH PLANI	NING SE	RVICE			
Category of Me (please check t	odification the appropriate)	☐ Catego ☐ Catego	ry A – Typographic ry B – Change in St ry C – Change in Lo ry D – Change in O cation does not cor	cation Lir ocation, operating	due to non-existin Unit (requires DB	BM approval)		
			Reviewed by Pla	anning S	ervice			
Name:	ANNA ANDRE	A M. NOCH	E Nar	me:	PETER PAUL R. C	CORTEZ		
Signature	Hod	· · ·	Sign	nature:	fund	3/		
Position:	Regional Coo	rdinator	Pos	sition:		ogramming Division		
Date:	3/24/2	23	Dat	te:				

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
P00715113LZ - CW1	S00382LZ	K0283 + 368	K0283 + 475	29949	30056	107	Construction of Road Slope Protection Structure	Active Wire Mesh System (High Tensile) (L/S)	Square Meters	9695



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

July 27, 2022

MEMORANDUM

FOR

: Assistant Secretary ADOR G. CANLAS.

For Regional Operations in REGIONS I, II, CAR, IX, X, XI, XII & XIII

Subject

: 001: Ensure Safe and Reliable National Roads with Slips Slope Collapse and Landslide - Secondary Roads, Rehabilitation/ Reconstruction of National Roads Banaue - Mayoyao A Lista -

Isabela Bdry. Road P85,905,000.00 and three (3) others.

Forwarded herewith are the result of evaluation for the above-mentioned projects which were referred to this office.

PROJECT NO. 1

The amount of Eighty Five Million Nine Hundred Five Thousand Pesos (P85,905,000.00) for 3,140.50 m² of Slope Protection Structures as submitted was found to be reasonable as evaluated based on the items of work involved and its quantities as reflected in the submitted Program of Works and design plans duly approved by Regional Director, DPWH-CAR.

SCOPE OF WORK

ITEM NO.	DESCRIPTION		OUNT al Cost)	PERCENT Weight (%)	
Part A	Facilities for the Engineer	Р	203,439.60	0.25%	
Part B	Other General Requirements	Р	1,532,726.30	1.85%	
Part C	Earthworks	P	223,796.35	0.27%	
Part G	Drainage & Slope Protection Structures	P	80,769,413.00	97.43%	
Part H	Miscellaneous Structures	Р	168,028.00	0.20%	
	GRAND TOTAL	P	82,897,403.25	100.00%	

Cost of slope protection per m² P82,897,403,25 P26,400.45/ m² 3,140.00 m² Cost per kilometer of Road P25,722.74/ m² P80,769,413.00

(Exclude Part A, B, C & H) 3,140.00 m²

The estimated cost of P26,400.45 per square meter of slope protection structures for the Rehabilitation/Reconstruction of National Roads with Slips Slope Collapse and Landslide -Secondary Roads - Banaue - Mayoyao A Lista - Isabela Bdry. Road at 3,140.00 square meter is due to design requirements which mainly involved Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) at 97.43% of the total project cost coupled with recent price escalation of construction materials and fuel and it is 394.50 km away to project site.

rankit's

Part A, B, C & G are excluded)

If Facilities for the Engineer, Other General Requirements, Earthworks, and Miscellaneous Structures along the stations as reflected in K0350+650 – K0350+760 per approved plans and location map of the proposed new road alignment are excluded in the computation the resulting cost is only P25,722.74 per square meter, hence it is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

PROJECT NO. 2

The amount of Three Hundred Million Pesos (P300,000,000.00) for 11,394.00 m² of Slope Protection Structures as submitted was found to be reasonable as evaluated based on the items of work involved and its quantities as reflected in the submitted Program of Works and design plans duly approved by Regional Director, DPWH-CAR.

SCOPE OF WORK

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)		PERCENT Weight (%)	
Part A	Facilities for the Engineer	P	375,580.80	0.13%	
Part B	Other General Requirements	P	2,559,573.20	0.88%	
Part C	Earthworks	P	474,665.97	0.16%	
Part D	Subbase and Base Course	Р	158,117.45	0.05%	
Part E	Surface Course	P	1,407,120.60	0.49%	
Part F	Bridge Construction	Р	120,689.44	0.04%	
Part G	Drainage & Slope Protection Structures	P	284,252,869.60	98.19%	
Part H	Miscellaneous Structures	Р	147,484.80	0.05%	
	GRAND TOTAL	P	289,496,101.86	100.00%	

Cost of slope protection per m ²	=	P289,496,101.86 11,394.00 m ²	=	P25,407.77/m ²
Cost per kilometer of Road (Exclude Part A, B, C, D, E, F & H)	=	P284,252,869.60 11,394.00 m ²	=	P24,947.59/m ²

The estimated cost of **P25,407.77** per square meter of slope protection structures for the Rehabilitation/Reconstruction of National Roads with Slips Slope Collapse and Landslide - Secondary Roads – Mt. Province – Cagayan via Tabuk – Enrile Road at 11,394.00 square meter is due to design requirements which mainly involved Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) at **98.19%** of the total project cost coupled with recent price escalation of construction materials and fuel and it is 422.48 km away to project site.

(Part A, B, C, D, E, F & H are excluded)

If Facilities for the Engineer, Other General Requirements, Earthworks, Subbase Course, Surface Course, Bridge Construction and Miscellaneous along the stations as reflected in K0406+453 – K0406+692 per approved plans and location map of the proposed new road alignment are excluded in the computation the resulting cost is only **P24,947.59** per square meter, hence it is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

ROJECT NO. 3

The amount of Sixty Nine Million Pesos (P69,000,000.00) for 2,507.00 m² of Slope Protection Structures as submitted was found to be reasonable as evaluated based on the items of work involved and its quantities as reflected in the submitted Program of Works and design plans duly approved by Regional Director, DPWH-CAR.

SCOPE OF WORK

ITEM NO.	DESCRIPTION		DUNT tal Cost)	PERCENT Weight (%) 0.31%
Part A	Facilities for the Engineer	P	203,439.60	
Part B	Other General Requirements	P	1,511,469.80	2.27%
Part C	Earthworks	Р	228,436.93	0.34%
Part G	Drainage & Slope Protection Structures	P	64,640,950.30	97.08%
	GRAND TOTAL	P	66,584,296.63	100.00%

Cost of slope protection per m ²	=	P66,584,296.83 2,507.00 m ²	=	P26,559.35/m ²
Cost per kilometer of Road (Exclude Part A, B & C)	=	P64,640,950.30 2,507.00 m ²	=	P25,784.18 m ²

The estimated cost of **P26,559.35** per square meter of slope protection structures for the Rehabilitation/Reconstruction of National Roads with Slips Slope Collapse and Landslide - Secondary Roads — Banaue - Mayoyao A Lista — Isabela Bdry. Road at 2,507.00 square meter is due to design requirements which mainly involved Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) at **97.08%** of the total project cost coupled with recent price escalation of construction materials and fuel and it is 402.80 km away to project site.

(Part A, B & C are excluded)

If Facilities for the Engineer, Other General Requirements and Earthworks, along the stations as reflected in K0358+842 – K0359+047 per approved plans and location map of the proposed new road alignment are excluded in the computation the resulting cost is only **P25,784.18** per square meter, hence it is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

PROJECT NO. 4

The amount of One Hundred Fifty Million Five Hundred Fifty Thousand Pesos (P150,550,000.00) for 5,853.04 m² of Slope Protection Structures as submitted was found to be reasonable as evaluated based on the items of work involved and its quantities as reflected in the submitted Program of Works and design plans duly approved by Regional Director, DPWH-CAR.

SCOPE OF WORK

ITEM NO.	DESCRIPTION		DUNT tal Cost)	PERCENT Weight (%)	
Part A	Facilities for the Engineer	P	281,685.60	0.19%	
Part B	Other General Requirements	P	1,787,292.50	1.23%	
Part C	Earthworks	P	417,767.82	0.29%	
Part F	Bridge Construction	P	6,171,515.37	4.25%	
Part G	Drainage & Slope Protection Structures	P	136,619,434.98	94.04%	
	GRAND TOTAL	P	145,277,696.27	100.00%	

P145,277,696.27 P24,820.90/m² Cost of slope protection per m² 5,853.04 m² Cost per kilometer of Road

(Exclude Part A, B, C & F)

P136,619,434.98 5.853.04 m²

P23,341.62/m²

The estimated cost of P24,820.90 per square meter of slope protection structures for the Rehabilitation/Reconstruction of Roads with Slips Slope Collapse and Landslide - Secondary Roads - Baguio - Bontoc Road, Sabangan, Mt. Province at 5,853.04 square meter is due to design requirements which mainly involved Erosion Control Mat (Type 4), Permanent Ground Anchor, Hydroseeding and Active Wire Mesh System (High Tensile) at 94.04% of the total project cost coupled with recent price escalation of construction materials and fuel and it is 385.30 km away to project site.

(Part A, B & C are excluded)

If Facilities for the Engineer, Other General Requirements, Earthworks and Bridge Construction along the stations as reflected in K0374+120 - K0374+285 per approved plans and location map of the proposed new road alignment are excluded in the computation the resulting cost is only P23,341.62 per square meter, hence it is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

ARISTARCO M. DOROY

OIC - Director, Bureau of Construction

Cc: Undersecretary MAXIMO L. CARVAJAL for Technical Services

6.1.1 JAM/CBC/GEC Desktop reasonableness CAR Ref. No.: 6.1-405-5550/358-02

