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Engr. Ruby A. Uyam	
OIC - ASST. DISTRICT ENGINEER	
Engr. Manuel P. Madio	
ADMINISTRATIVE OFFICER	
Engr. Alexander L. Colangan	
SECTION	
OTHERS	
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Date/Time/Out: \_\_\_\_\_

	Republic of the Philippine DEPARTMENT OF PUBLIC WORKS AN OFFICE OF THE SECRETA	D HIGHWAYS
	MANILA	Ad-14.5 DPWH - LKDEO RECORDS UNIT
June 19, 2021		RECEIVED
		BY: <u>hr</u>
MEMORANDU	ЛМ	DATE: 7 20 2021 TIME:
то	: OIC Regional Director KHADAFFY D	REF. NO.: 252-266 CODE:

Cordillera Administrative Region

ATTENTION : OIC - District Engineer RUBY A. UYAM Lower Kalinga District Engineering Office

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

Date	As per GAA/C	Driginal	As Modified					
Approved	Project Description							
	<ol> <li>Mt Province Bdry-Calana Rd (Cagaluan-Calanan S 710 - K0481 + 780</li> </ol>		Mt Province Bdry-Calanan- (Cagaluan-Calanan Sect) K0481 + <b>949</b>					
June 19, 2021	CW-1 Construction of Road Slope Protection Structure <b>6,000</b> Square Meters	₽ 96,500,000	CW-1 Construction of Road Slope Protection Structure <b>5,148.18</b> Square Meters	₽ 96,500,000				
	EAO	₽ 3,500,000	EAO	₽ 3,500,000				
	Total	₽100,000,000	Total	<b>₽100,000,000</b>				

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

Please be guided accordingly.

RAFAC YABUT

Seniør Undersecretary Updersecretary for Regional Operations Regions I, II, III, IV-A, V and CAR

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

2.1 RMYR/LSDR

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			alanan-	-Pinukpuk-Abbut	<u>: Rd (Cagalua</u>	<u>Calanan Sect) -</u>			
							Appropriation	:	
			alinga D	District Engineeri	ng Office		_ Date	05/03/2021	
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ndersecretary for Information Management, Planning and PPP Serrvic



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

# JUN 1 9 2021 MEMORANDUM

# FOR : MARK A. VILLAR

Secretary

Respectfully forwarded is the Memorandum dated April 13, 2021 of OIC-Regional Director **KHADAFFY D. TANGGOL**, **DPWH-CAR**, endorsing the request of District Engineer **RUBY A. UYAM**, **Lower Kalinga DEO**, requesting for the **modification** of project under the FY 2021 GAA, RA 11518, to wit:

	As per GAA/Origi	inal		As Modified	
Project Descri				· · · · · · · ·	
UACS No.	31010810049600	0			
Project ID:	P00505871LZ				
001: Ensure Sa	fe and Reliable Natio	onal Road System	OO1: Ensure Sat	fe and Reliable Nati	onal Road System
National Roads Landslide - Seco Mt Province	-	lapse, and ukpuk-Abbut Rd	National Roads v Landslide - Seco Mt Province (Cagaluan-Calan	on - Rehabilitation/ vith Slips, Slope Co ndary Roads Bdry-Calanan-Pint an Sect) - K0481 -	llapse, and ukpuk-Abbut Rd
Physical Target	Unit Cost	Allocation (₱)	949 Physical Target	Unit Cost	Allocation
CW-1 Construction of Road Slope Protection Structure <b>6,000</b> Square Meters	₽ 16,083 / Square Meters	₽ 96,500,000	CW-1 Construction of Road Slope Protection Structure <b>5,148.18</b> Square Meters	₽ 18,744 / Square Meters	₽ 96,500,000
EAO	-	₽ 3,500,000	EAO	-	₽ 3,500,000
Тс	otal:	₽100,000,000	То	tal:	₽100,000,000

#### **Justification:**

• Adjustment of section limits to prioritize sections in need of immediate counter measures to avoid further rock collapse that cause damage on the existing pavement and other road component.

 Decrease in physical target due to increase in unit cost attributed by the structural design adopted for the slope protection structure which uses rock netting: active wire mesh system (high tensile) with permanent ground anchor and hydro seeding.

• The derived unit cost and physical target were based on the approved plans, POW, DUPA, CMPD and Certificate of Cost Reasonableness

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

Έ. ΥΑΒυτ RAFA

Senior Undersecretary Undersecretary for Operations Regions I, II, III, IV-A, V and CAR

PROVED PDISAPPROVED:

MARK A. VILLAR Secretary





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

April 13, 2021

#### MEMORANDUM

FOR : MARK A. VILLAR Secretary



- THRU : RAFAEL C. YABUT Senior Undersecretary OFFIC Undersecretary for Regional Operations Regions I, II, III, IV-A, V & CAR
- SUBJECT : Request for the Modification of the Project: Asset Preservation -Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) - K0481 + 710 - K0481 + 780, under the FY 2021 General Appropriations Act

We are respectfully forwarding the Memorandum dated April 7, 2021 of District Engineer Ruby A. Uyam, Lower Kalinga District Engineering Office requesting for the modification of the above project in the amount of **One Hundred Million Pesos(Php 100,000,000.00**), as indicated below:



Amount : 100,000,000.00



The supporting documents in accordance with D.O. #37, Series of 2018 are attached for your perusal.

For the consideration of the Secretary.

KHADAFF IANGGOL OIC-Rebio èctor



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

April 13, 2021

#### MEMORANDUM

- FOR : MARK A. VILLAR Secretary
- THRU : RAFAEL C. YABUT Senior Undersecretary Undersecretary for Regional Operations Regions I, II, III, IV-A, V & CAR
- SUBJECT : Request for the Modification of the Project: Asset Preservation -Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) - K0481 + 710 - K0481 + 780, under the FY 2021 General Appropriations Act

We are respectfully forwarding the Memorandum dated April 7, 2021 of District Engineer Ruby A. Uyam, Lower Kalinga District Engineering Office requesting for the modification of the above project in the amount of **One Hundred Million Pesos(Php 100,000,000.00**), as indicated below:

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Asset Preservation - Rehabilitation/
onstruction of National Roads with S

EDOM

Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) – K0481 + **710** - K0481 + **780** 

Physical Target: 6,000 Square meters Amount : 100,000,000.00 то

Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) – K0481 + **905** - K0481 + **949** 

Physical Target: **5,148.18** Square meters Amount : 100,000,000.00

The supporting documents in accordance with D.O. #37, Series of 2018 are attached for your perusal.

For the consideration of the Secretary.

TANGGOL KHADA OIC-R rector

CAR.1 RBP/EFD/AOD/ABM



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LOWER KALINGA DISTRICT ENGINEERING OFFICE Cordillera Administrative Region Bulanao, Tabuk City, Kalinga

April 07, 2021

# MEMORANDUM

FOR	:	<b>KHADAFFY D. TANGGOL</b>
		Regional Director

- THRU : ANGELITA B. MABITAZAN Chief, Planning & Design Division
- SUBJECT : Modification CY 2021 GAA Asset Preservation Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) - K0481 + 710 - K0481 + 780 under the FY 2021 General Appropriations Act.

May we submit for review and evaluation the Modification of the project stated below:

FROM	то				
Asset Preservation - Rehabilitation/	Asset Preservation - Rehabilitation/				
Reconstruction of National Roads with Slips,	Reconstruction of National Roads with Slips,				
Slope Collapse, and Landslide - Secondary	Slope Collapse, and Landslide - Secondary				
Roads-Mt Province Bdry-Calanan-Pinukpuk-	Roads-Mt Province Bdry-Calanan-Pinukpuk-				
Abbut Rd (Cagaluan-Calanan Sect) - K0481	Abbut Rd (Cagaluan-Calanan Sect) - K0481				
+ 710 - K0481 + 780	+ 905 - K0481 + 949				
Physical Target: 6,000 Square Meters Amount : ₱ 100,000,000.00	Physical Target: <b>5,148.18</b> Square Meters Amount : ₱ 100,000,000.00				

Attached are all Supporting documents based on Guidelines to be used in the Evaluation of Realignment/Modification for FY 2015 GAA/D.O No. 12, series of 2015.

For your favorable consideration.

**RUBY A. UYAM** Assistant District Engineer OIC-Office of the District Engineer

CAR.15.1 MBA/ABN/RLF



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LOWER KALINGA DISTRICT ENGINEERING OFFICE

Cordillera Administrative Region Bulanao, Tabuk City, Kalinga

# CERTIFICATION

Date: March 26, 2021

# CERTIFICATE OF REASONABLENESS OF COST ESTIMATE

Project : Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) - K0481 + 905 -K0481 + 949

: Tabuk City, Kalinga Location

Duration : 240 Calendar Days

The Ninety-Six Million Five Hundred Thousand Pesos (Php 96,500,000.00) which includes CW1 - Construction of Slope Protection Structure with a total length of 44 meters with an area of 5,148.18 square meters is found to be reasonable based on the actual survey data and cost estimate. Stated below are the scope of work and its corresponding total cost.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for Engineer	Php 948,052.8	0.98
Part B	Other General Requirement	Php 675,615.62	0.70
Part C	Earthworks	Php 240,443.4	0.25
Part G	Drainage and Slope Protection Works	Php 76,194526.47	78.96
	ОСМ	Php 13,846,123.62	14.35
	VAT	Php 4,595,238.1	4.76
L	Total =	Php 96,500,000.00	100

# SCOPE OF WORK (Construction Cost Only)

# **CW1-** Construction of Slope Protection Structure

# 136.36 m height @ 44 m. length as per GAA

Please refer to the attached Form POW-2015-01A-00 (Itemized Breakdown)

1. Unit Cost per Square meter of Structure= <u>Php 41,433,420,00</u>= Php 16,083.33/Sa.m. Having a total area of

6,000 Sq.m.



### Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LOWER KALINGA DISTRICT ENGINEERING OFFICE

Cordillera Administrative Region Bulanao, Tabuk City, Kalinga

# 117 m height @ 44 m. length as per POW

Please refer to the attached Form POW-2015-01A-00 (Itemized Breakdown)

2. Unit Cost per Square meter of Structure= <u>Php 41,433,420.00</u>= **Php 18,744.49/Sq.m.** 

Having a total area of

5,148.18 Sq.m.

The increase in unit cost for CW1 - Construction of Slope Protection Structure is due to the decrease in the physical target of the project. The unit cost per square meter of structure for CW1 is derived based on the Detailed Unit Price Analysis of the items of work involved. This actively demonstrate that, it is reasonable as to unit cost of the items of work involved which are within the range of the prevailing cost of the Department.

Prepared By:

Submitted By:

ALFREDO B. NGAO-I Engineer II

RAFAEL L FERNANDO

Chief, Planning & Design Section

Approved By: RUBY A. UYAM

Assistant District Engineer OIC, Office of the District Engineer

Noted By:

KHAD ANGGOL OIC- Regional Director

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			MO						

Implementing Office

Lower Kalinga District Engineering Office

Asset Preservation - Rehabilitation/ Reconstruction of National Roads with Slips, Slope : Collapse, and Landslide - Secondary Roads-Mt Province Bdry-Calanan-Pinukpuk-Abbut Rd (Cagaluan-Calanan Sect) - K0481 + 905 - K0481 + 949

Project Name/Location

1. Modification Request Form

2. Certificate of Availability of Funds

#### 3. Supporting Data & Analysis

- N. a. Road Condition (RBIA Latest Official Database )
- b. Traffic Volume Capacity Ratio (for Widening Projects)
- C. Bridge Condition (BMS Latest Official Database)
- Ma d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges )
  - e. RSM Forms (for Road Slips)
- f. Project Impact Analysis (for Flood Control Projects )
- g. Master Plan (for Flood Control Projects )

4. BP 202

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#### 5. Geotagged Photos

- a. Hard Copy
- b. Electronic Copy
- c. Plotted in the GIS Map

#### 6. Certificate of No Overlapping (Certified by DE, Construction and Maintenance Division Chiefs)

#### 7. ROW Clearance

- a. District Engineer
- 🖉 b. LGU

#### 8. Environmental Clearances

- a. Not Within a "No Build Zone" (MGB)
  - b. Tree Cutting Permit (If Applicable-EMB)
- c. CNC/ECC/EIA (EMB)

🗤 - 9. Social Clearance (not within a Declared Heritage/Cultural Site-NCCA )

10. Certificate of Reasonableness (for Projects with Changes in Unit Cost )

Project	Details
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- ] a. POW
- b. DUPA
  - c. Plans
    - 🗌 1. Coverpage
      - 2. Summary of Quantities
    - 3. Cross Section Showing Changes (if Applicable )
- d. Materials Source Map
- 11. Certificate of Local Government Unit

Chief, Plann g Section

# Form for Modification Request

		<b>A</b> .	GENERAL	······································		· · · · · · · · · · · · · · · · · · ·	···· ··· · · · · · · · · · · · · · · ·
1. REGION     2. DEO       CORDILLERA ADMINISTRATIVE REGION     LOWER KALINGA DISTR						GISLATI NGA LONE	VE DISTRICT DISTRICT
<b>B</b> .	C. PROPOSED REVISED PROJECT						
4. UACS (Unified Accou 310108100496000	nt Code Structure as def	ined in GAA)				<del></del>	
5. Project Id P00505871LZ					*****		
6. Project Category OO1: Ensure Safe and	d Reliable National I	Road System		1, ₩ <sup>2</sup> ¥	92 <b>8</b> - 9896 - 686 - 71 - 72 - 72 - 72		
7. Sub-Program (P/A Asset Preservation -	•	onstruction of Nation	al Roads with S	lips, Slope C	ollapse, an	d Landsli	de-Tertiary Roa
8. Operating Unit Lower Kalinga District Engineering Office			<b>18. Operating Unit</b> (Change subject to DBM approval) Lower Kalinga District Engineering Office				
9. Type of Work (Ente	er Details for all Compon	ents below)	19. Type of Work (Enter Details for all Components below)				
Component ID	Type of Work		Component II	)	Type of Work		
P00505871LZ -CW1	Construction of F Protection Struct	P00505871LZ	CW1	Construction of Road Slope Protect Structure			
10. PROJECT DESCRIP Asset Preservation - National Roads with Secondary Roads-Mt Rd (Cagaluan-Calana	Rehabilitation/ Reco Slips, Slope Collapse Province Bdry-Calai	onstruction of e, and Landslide - nan-Pinukpuk-Abbyť	🖇 Roads with Sli	ation - Reha ps, Slope Co dr <u>y-C</u> alanar	bilitation/ l bilapse, and p-Pinukpuk;	Reconstr   Landslic	<sup>t)</sup> uction of Nation le - Secondary R d (Cagaluan-Cala
11. ALLOTMENT (P'000) (as recorded in GAA) 100,000					(To be obtained fr Management office		
<b>12. PHYSICAL TARGE</b>	T (Enter Details for all C	omponents below)	23. PHYSICAL	TARGET (En	ter Details for	all Compo	onents below)
Component ID	Target	Target Unit	Component II	)	Target		Target Unit
P00505871LZ -CW1	6,000.00	Square Meters (m2)	P00505871LZ	-CW1	5,148.18		Square Meter (m2)
P00505871LZ-EAO		ļ	P00505871LZ-	EAO			
13. UNIT COST (Enter I	Details for all Componer	its below)	24. UNIT COST	[ (Enter Detail	s for all Comp	onents be	low)
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)	Component II		Component Cost (P'000)		Target Unit C (P'000/Target Ur
P00505871LZ -CW1	96,500 🖌	16.08 /	P00505871LZ	-CW1	96,500 🖊		18.744
P00505871LZ -EAO	3,500 🦯	·	P00505871LZ	-EAO	3,500	/	
		efined in strict	4				l in strict accordanc

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Start X	17.40629722	End X	17.40643889	Start X	17.40671667	End X	17.40688333 🦯
Start Y	121.29545	End Y	121.2959556	Start Y	121.2966861 🦯	End Y	121.2970611
15. ROAL Secondar	O CLASSIFICATION	(if applicable)		26. ROA Seconda	D CLASSIFICATION (ii	f applicable)	······································
16. IMPL original pro		(Record the In	nplementing Office of the		EMENTING OFFICE ( revised project)	Record the Imple	ementing Office of the
	wer Kalinga Distric		· · · · · · · · · · · · · · · · · · ·		wer Kalinga District		
17. PROJ	ECT IMPLEMENTA	TION PLAN (	PIP)	28. PRO.	IECT IMPLEMENTATI	ON PLAN (PI	?)
Planned Start Date Planned End Date			1	Start Date	Planned i	,	
February 10, 2021 October 8, 2021			June 15,			10, 2022 /	
				29. OVE			R WARRANTY?
				NO NO			
			D. ATTACHMEN		TIFICATIONS		
31. PROJ 🗆 NO	ECT IMPACT ANAL	YSIS ATTACI ⊠ N	HED? (For Flood Control   /A	Projects)			
32. TECH	NICAL JUSTIFICATI	ON (Explain in	detail in Bullet point form	nat; minimur	n of 2 points)		
ł			d as a result of the ac			-	
	This section needs pavement and oth		counter measures to	avoid furt	her rock collapse th	at cause dam	age on the existing
			•	ion of the	most critical station	s located at K	0481 + 905 - K0481 +
	949 along Mt. Prov	vince Bdry(	Calanan-Pinukpuk-Ab	but Road	(Cagaluan-Calanan S		
	immediate slope n	nitigation du	ue to their susceptibi	lity to soil	/ rock collapse.		
					t.		
1							
33. PHOT	OS SUBMITTED	· · · · · · · · · · · · · · · · · · ·					
	⊠YES						
34. A MA	P OF THE PROPOS	ED PROJECT	WORK LOCATION SU	JBMITTED			
⊡NO ₽	⊠YES						
h		a startsonich for sont associations and					

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		PREPARED BY	
<u>1</u>			
	( <del>R)</del> -tù		
lame:	ALFREDO B. NGAO-I	Position:	ENGINEER II
ffice:	DFWH- Lower Kalinga District Engineering Office	Date:	3/22/2021
36. REV	IEWED BY DISTRICT OFFICE (If Required)	••••••• ••••••••••••••••••••••••••••••	38. REVIEWED BY REGIONAL OFFICE
ame:	RAFAEL, FERMANDO	Name:	ANGELITA B. MABITAZAN
osition:	Chief Planning and Design Section	Position:	Grief Planning and Design Division
ate:	3/22/2021	Date:	~~ <i>1</i>
37. RECON	IMENDED BY DISTRICT OFFICE (If Required)		9. RECOMMENDED BY REGIONAL OFFICE
			<u> </u>
			1(/)
lame:	RUBY Ä. UYAM	Name:	KHADAFF D. TANGGOL
	Assistant District Engineer		
osition:	Officer-In-Charge, Office of the District Engineer	Position:	OIC-Regional Director
ate:	3/22/2021	Date:	
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UACS (Unified Account 0 310108100496000	Code Structure a	s defined in GAA}				Annal active and anna e	
Project Id P00505871LZ		*****		···· w.an ··· ·/ ·/ ·		VIN 1971 1971 ANN 0000000000000000000000000000000000	
	40. DP	WH OFFICE OF	THE UNDERS	ECRETARIES F	OR OPERATIONS US	E ONLY	
Category of Modification (choose one)		<ul> <li>Category A – Typographical Errors</li> <li>Category B – Change in Station Limits, due to increase or decrease in budget</li> <li>Category C – Change in Location</li> <li>Category D – Change in Operating Unit (requires DBM approval)</li> <li>Adjustment – Send to PS-PD to amend MYPS</li> <li>Modification does not comply with DBM Categories</li> <li>Augmentation</li> </ul>					
Primary Reason for F	Request (base	ed on Category	of Modificat	ion): (choose o	ine)		
Category A Category B			Category C		Category D	Adjustment (Must be no change to target or GAA line item)	
<ul> <li>Typographical error on Project Description</li> <li>Project Description needs items removed due to typo error</li> <li>Change in station limits, due to increase or decrease in budget</li> <li>Change in Physical Target</li> </ul>		n station limits, acrease or a in budget	<ul> <li>No such I</li> <li>No such City/Mun</li> </ul>		Change in (IO), requiring a change in the (OU)	<ul> <li>Typographical error on Project Component Description</li> <li>Typographical error on other fields not included in, or not consistent with GAA</li> <li>Move funds between Project Components</li> <li>Add/delete Project Components</li> <li>Change of Itemized Project Component:</li> <li>Various</li> <li>Description</li> <li>Location</li> <li>Amount</li> <li>Target</li> </ul>	
		Reviewed by	Office of the	e Undersecret	ary for Operations		
Name: RHOFEL MARIE Y. RECALADO							
Signature							
Position:							
Date:	· · · · · · · · · · · · · · · · · · ·			·····			
		41. DPW	H PLANNING	SERVICE OFF			
Category A - Typographic         Category of Modification         (choose one)         Category D - Change in State         Category C - Change in Loc         Category D - Change in Op         Adjustment - Send to PS-P         Modification         Adjustment - Send to PS-P         Adjustment - Send to PS-P         Augmentation			Change in Static Change in Locat Change in Oper - Send to PS-PD does not compl n	on Limits, due to i tion rating Unit (requin to amend MYPS ly with DBM Categ	es DBM approval) gories	dget	
		^	Reviewed b	y Planning Sei	rvice	NUMBER MERRIN MARK OF MERRIN FOR THE CONTROL OF CONTROL OF MERRING MARKED AND AND AND AND AND AND AND AND AND A	
Name:	[]	145		Name:	fuln		
Signature C	HRISTYBEL C	CANUEL		Signature:	PETER PAUL R. CON	RTEZ	
Position:	Regional Coo	rdinator		Position:	OIC-Chief of Progra	amming Division	
Date:		5]3] 2		Date:	5/4/2	'nıl	

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Annex A to Form for Modification Request

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Physical Target	5,148.18
Target Unit	Square Meters
Detail Scope of Work	Slope Protection Works (Rock Netting w/ Hydroseeding) (L/S)
Type of Work	Construction of Slope Protection Structure
Length (m)	44
End Chainage	12210
Start Chainage	12166
End Limit LRP + Disp	K0481 + 949
Start Limit LRP + Disp	K0481 + 905
Section ID	s00602L Z
Component ID Section ID	P00505871LZ- CW1

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