	Note: Action must be taken within 15 days from receipt of correspondence pursuant to the Provision of Sec 5(s) RA 6713
	Others
	Section
	Administrative Officer ARNEL N. BRILLANTES
	Asst. District Engineer EDWIN T. BRINGAS
	District Engineer JOSELITO T. ARAO
	To:
	xe No.: CAR.9-2-CC
	RMD-HRAS ROUTING SLIP
	ABRA DISTRICT ENGINEERING OFFICE
-	DPWH-QMSP-51-04-Rev00 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Quality Management System
District Ergineer	DEADLINE:
JOSELITO T. ARAO	Return Document/s to me
4	For Dissemination
	For Appropriate Action
	n
	~
8	Enr Beview/ Tritial
EMARKS: DO	et's Discuss
	FOR/TO: DE J.T. ARAO SOURCE: E. PIPO JR.
Reference No.: CAR.9-2-CO789	
ION SLIP	REFERRAL / ACTION SLIP

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS QUALITY MANAGEMENT SYSTEM ABRA DISTRICT ENGINEERING OFFICE Bangued, Abra





DPWH-QMSP-51-05-Rev00



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CENTRAL OFFICE Bonifacio Drive, Port Area Manila

BAGONG PIL

October 3, 2023

MEMORANDUM

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

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403.81

DPWH-ABRA

Date: Code:

10.9.23

ATTENTION : Abra District Engineering Office Bangued, Abra **JOSELITO T. ARAO** District Engineer

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

P Structure, La Paz, Abra - - - **P150,000,000.00** Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting Infrastructure/ Facilities Construction of Naguillian Flood Control Flood Convergence and Alleviating Gaps Special Support Program -Sustainable Infrastructure Structure protecting Control Project Public

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.

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

2.3 mksa/AVS/RPBG/ERP







Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CENTRAL OFFICE Bonifacio Drive, Port Area Manila



October 3, 2023

MEMORANDUM

- TO : KHADAFFY D. TANGGOL Regional Director DPWH-CAR Engineer's Hill, Baguio City
- ATTENTION : JOSELITO T. ARAO District Engineer Abra District Engineering Office Bangued, Abra

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

----Structure, La Paz, Abra - - - #150,000,000.00 Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting Infrastructure/ Facilities Construction of Naguillian Flood Control Flood Convergence and Special Support Program - Sustainable Infrastructure Project Control Public

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.

in CAR 2.3 mksa/AVS/RPBG/ERP Unders EUGENJØ fighy for Regional Operations gions I, II, IX, X, XI, XII, and XIII IPO, JR.

Website: https://www.dpwh.gov.ph Tel. No(s).: 5304-3000 / (02) 165-02





CAR-164

P150,000,000.0	Total:		. ootootoootoo		Inctification.
	1		P150.000.000.00	Total:	
₽ 5,250,000.00	1	EAO	₱5,250,000.00	1	EAO
₱ 144,750,000.0	₽355,301.91/ I.m. ≠	CW1- Construction of Flood Mitigation Structure/ 407.40 l.m.	P144,750,000.00	₱ 117,611.69/, l.m.	CW1- Construction of Flood Mitigation Structure / 1230.745 l.m.
Estimated Cost	Unit Cost	Type of Work/ Physical Target	Allocation	Unit Cost	Physical Target
od Control	an Flood Control Floo	Construction of Naguillian Flood Control Flood Control Structure, La Paz, Abra	od Control	In Flood Control Flo	Construction of Naguillian Flood Control Flood Control Structure, La Paz, Abra.
- 3 Gaps (SIPAG) - Infrastructure/	ial Support Program . ure Project Alleviating ure protecting Public	Convergence and Special Support Program - Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting Public Infrastructure/ Facilities	- ig Gaps (SIPAG) - : Infrastructure/	al Support Program ire Project Alleviatin re protecting Public	Convergence and Special Support Program - Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting Public Infrastructure/ Facilities
		Project Description	Luolect D	1297000 ·)7LZ ·	UACS No.:300219101297000 . Project ID:P00740307LZ .
	As Modified			AS per GAA/Original	AS
Director T. ARAO FY 2023	CAR Regional neer JOSELITO he project under	This refers to the memorandum dated 28 July 2023 of DPWH CAR Regional Director KHADAFFY D. TANGGOL, endorsing the request of District Engineer JOSELITO T. ARAO of Abra District Engineering Office for the modification of the project under FY 2023 GAA, to wit;	ndum dated 28 Ju endorsing the req ing Office for the	trict Engineer	This refers t KHADAFFY of Abra Dis GAA, to wit;
			Secretary This Department	Secretary This Depa	

Y tion:

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. The increase in unit cost which resulted to the decrease in the physical target is due to the usage of a reinforced concrete dike type of flood mitigation structure with steel sheet piles consisting of 38.68% of the project direct cost. The steel sheet piles are necessary to prevent scouring and possible failure along the foundation of the proposed mitigation and to ensure over-all stability of the project area. Also, the huge/massive rock embankment consisting of 50.09% of the project cost contributed to the high unit cost of

P150,000,000.00

₱ 5,250,000.00

₱ 144,750,000.00

- .
- . The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW). The 407.40 l.m. physical target has been derived/computed reference to the evaluation made by the Bureau of Construction as per memorandum dated June 22, 2023. See attached Cross-Section Drawing of the Project Submitted by the District Engineer, and the Certificate of Reasonableness of Cost Estimates signed by the Regional Director.
- .

Website: https://www.dpwh.gov.ph Tel. No(s).: 5304-3000 / (02) 165-02







Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE SECRETARY Bonifacio Drive, Port Area Manila



August 15, 2023

MEMORANDUM

... MANUEL M. BONOAN

FOR

2 Secretary N. BONDAN APPROVED/BESARPROVED: MARIA CATALINA E. CABRAL, Ph.D., CESO I Undersecretary for Planning and Public-Private Partnership Services RECOMMENDING APPROVAL **REY PETER B. GILLE, D.M.** Assistant Secretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII, and XIII Based on our evaluation, the submitted request for modification of the said project is in order; henged approval hereof is recommended. - -L E Undersections I, II, IX, X, XI, XII, and XIII 20 & cop 0 UACS No.: 300219101297000 Project ID: P00740307LZ Page 2 of 2

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Department of Public Works and Highways Office of the Secretary WIN3E03190

2.3 mksa/MLS/AVS/AGC/ERP

Website: https://www.dpwh.gov.ph Tel. No(s).: 5304-3000 / (02) 165-02



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ISO 9001		1	2	

The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW). The 407.40 I.m. physical target has been derived/computed reference to the evaluation made by the Bureau of Construction See attached Cross-Section Drawing of the Project Submitted by the District Engineer, and the Certificate of Reasonableness of Cost Estimates signed by the Regional Director.

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The increase in unit cost which resulted to the decrease in the physical target is due to the usage of a reinforced concrete dike type of flood mitigation structure with steel sheet piles consisting of 38.68% of the project direct cost. The and to ensure over-all stability of the project area. the huge/massive rock embankment consisting of 50.09% of the project cost contributed to the high unit cost of

Justification: P150,000,000.00

Total:

Structure / 1230.745 l.m. EAO

₱ 117,611.69/

₱144,750,000.00

CW1- Construction of Flood Mitigation Structure/

₱ 355,301.91/

₱ 144,750,000.00

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₱ 5,250,000.00

Total:

P150,000,000.00

407.40 l.m. EAO

₱5,250,000.00

.m.

CW1- Construction of Flood Mitigation **Physical Target** Unit Cost

Allocation

Physical Target Type of Work/

Unit Cost

Estimated Cost

Construction of Naguillian Flood Control Flood Control Structure, La Paz, Abra Convergence and Special Support Program -Sustainable Infrastructure Project Alleviating Gaps (SIPAG) -Flood Mitigation Structure protecting Public Infrastructure/ Project ID:P00740307LZ UACS No.:300219101297000 Type of Work/ As per GAA/Original Project Description

Convergence and Special Support Program -Sustainable Infrastructure Project Alleviating Gaps (SIPAG) Flood Mitigation Structure protecting Public Infrastructure/ Facilities

As Modified

Construction of Naguillian Flood Control Flood Control Structure, La Paz, Abra

This refers to the memorandum dated 28 July 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL,** endorsing the request of District Engineer **JOSELITO T. ARAO** of **Abra District Engineering Office** for the **modification** of the project under FY 2023

FOR

...

This Department

Secretary

MANUEL M. BONOAN

MEMORANDUM

August 15, 2023

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Bonifacio Drive, Port Area Manila

BAGONG

à d • • . 2.3 mksa/MLS/AVS/AGC/ERP MANUEL APPROVED/BISAPPROVED: MARIA CATALINA E. CABRAL, Ph.D., CESO I Undersecretary for Planning and Public-Private Partnership Services RECOMMENDING APPROVAL: REY PETER B. GILLE, D.M. Assistant Secretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII, and XIII Based on our evaluation, the submitted request for modification of the said project is in order; hence approval hereof is recommended. • _ • NPONO W • • D **EUGENIUX, PIPO, JR.** Undersected any for Regional Operations in CM, Regions I, II, IX, X, XI, XII, and XIII UACS No.: 300219101297000 Project ID: P00740307LZ Page 2 of 2

CAR.1 TPIL/EFD/JWC/ABM KHADAFFYD. TANGGOL Regional Director KHADA

For the consideration of the Secretary.

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

Target	Physical	Project	UACS
1230.745 Lineal meters	Control Structure, La Paz, Abra	Construction of Naguillan Flood	P00740307LZ 300219101297000
407,400 lines! Mat	Construction of Naguillan Flood Control Structure, La Paz, Abra		As Modified

As per GAA/Original

We are respectfully forwarding the Memorandum dated July 24, 2023 from **District Engineer JOSELITO T. ARAO, Abra District Engineering Office**, regarding the above subject in the amount of **One Hundred Million Pesos (Php 100,000,000.00)** as

SUBJECT

: Request for the Modification of the Project: CONVERGENCE AND SPECIAL SUPPORT PROGRAM: Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities- Construction of Naguilian Flood

THRU FOR : MANUEL M. BONOAN Secretary

MEMORANDUM

July 28, 2023

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

: EUGENIO R. PIPO, JR.

Undersecretary for Regional Operations 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

July 28, 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: CONVERGENCE AND SPECIAL SUPPORT PROGRAM: Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities- Construction of Naguillan Flood Control Structure, La Paz, Abra

We are respectfully forwarding the Memorandum dated July 24, 2023 from **District Engineer JOSELITO T. ARAO, Abra District Engineering Office**, regarding the above subject in the amount of **One Hundred Million Pesos (Php 100,000,000.00)** as

407.400 Lineal Meters	1230.745 Lineal meters	Target
		Physical
Construction of Naguillan Flood Control Structure, La Paz, Abra	Construction of Naguillan Flood Control Structure, La Paz, Abra	Title
	300219101297000	UACS
	P00740307LZ	B
As Modified	As per GAA/Original	

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

For the consideration of the Secretary.

KHADAFFY b. T/ Regional Director **P. TANGGOL**

CAR. 1 TPIL/EFD/JWC/ABM





Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS **ABRA** DISTRICT ENGINEERING OFFICE

CORDILLERA ADMINISTRATIVE REGION Bangued, Abra



July 24, 2023

MEMORANDUM

- FOR : KHADAFFY D. TANGGOL Regional Director
- THRU : ANGELITA B. MABITAZAN Chief, Planning and Design Division
- SUBJECT ... Request for the Modification of the Project: CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities, Construction of Naguillan Flood Control Structure, La Paz, Abra

We are respectfully submitting for review and evaluation the above-mentioned subject for Modification, amounting to **One Hundred Fifty Million Pesos (Php 150,000,000.00)**, as indicated below:

Project Title: Project Title: Project Title: Construction of Naguillan Flood Control Structure, Construction of Naguillan Flood Control Structure, La Paz, Abra La Paz, Abra FROM 10

Physical Target: CW1 – **1230.745** Lineal meters

Physical Target: CW1 – **407.40** Lineal meters

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

District Engineer JOSELITO T. ARAO CAR.8.1 MJDJ/CLAR/JTA

Telefax: (074) 752-7734 Email Address: dpwh.abra@yahoo.com



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

June 26, 2023

MEMORANDUM

- TO : RD KHADAFFY D. TANGGOL DPWH - CAR Engineer's Hill, Baguio City
- ATTENTION : DE JOSELITO T. ARAO Abra District Engineering Office Bangued, Abra

Transmitted herewith is the result of evaluation by the Bureau of Construction (BOC) on the requests for Project Modification under FY 2023 GAA DPWH Infrastructure Program for the four (4) hereunder projects, to wit;

	PROJECT NAME	AMOUNT	BOC
<u>-</u>	1. Construction of Naguillan Flood Control Structure, La Paz, Abra	₽ 150,000,000.00	₱ 148,338,000.00
2.	2. Construction of Catacdegan Flood Control, Manabo, Abra	₱ 100,000,000.00	₽ 96,522,000.00
υ	 Installation of Road Safety Devices Along Abra-Ilocos Norte Rd - K0427 + 023 - K0430 + 967 	₱ 100,000,000.00	₽ 99,878,000.00
.4	 Installation of Road Safety Devices Along Abra-Ilocos Norte Rd - K0416 + 938 - K0426 + 392 	₱ 100,000,000.00	€ 99,072,000.00

Also attached are the original documents evaluated by the BOC.

For your appropriate action.

DIGENIO P -NO.

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

2.3 LDAM/AVS/RPBG/ERP



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

Manila

June 26, 2023

MEMORANDUM

- TO : RD KHADAFFY D. TANGGOL DPWH - CAR Engineer's Hill, Baguio City
- ATTENTION : DE JOSELITO T. ARAO Abra District Engineering Office Bangued, Abra

Transmitted herewith is the result of evaluation by the Bureau of Construction (BOC) on the requests for Project Modification under FY 2023 GAA DPWH Infrastructure Program for the four (4) hereunder projects, to wit;

	PROJECT NAME	AMOUNT	BOC
	 Construction of Naguillan Flood Control Structure, La Paz, Abra 	₱ 150,000,000.00	₽ 148,338,000.00
2	2. Construction of Catacdegan Flood Control, Manabo, Abra	₽ 100,000,000.00	₱ 96,522,000.00
မ	 Installation of Road Safety Devices Along Abra-Ilocos Norte Rd - K0427 + 023 - K0430 + 967 	₱ 100,000,000.00	₽ 99,878,000.00
4.	 Installation of Road Safety Devices Along Abra-Ilocos Norte Rd - K0416 + 938 - K0426 + 392 	₱ 100,000,000.00	₽ 99,072,000.00

Also attached are the original documents evaluated by the BOC.

For your appropriate action.

EUGENIGIR. PIPO, JR. Undersecretary for Regional Operations in CAR Regions I, II, IX, X, XI, XII and XIII 2.3 LDAM/AVS/RPBG/ERP



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CENTRAL OFFICE Bonifacio Drive, Port Area, Manila

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June 05, 2023

MEMORANDUM

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--ARISTARCO M. DOROY Office of the Director, Bureau of Construction Officer-in-Charge This Department

Referred herewith is a Project Modification request of **DPWH District Engineer JOSELITO T. ARAO, Abra District Engineering Office,** under FY 2023 GAA, to wit:

			1	T
4	ω	2		Item No.
P00739550LZ	P00739551LZ	P00726859LZ	P00740307LZ	Project ID
Installation of Road Safety Devices Along Abra-Ilocos Norte Rd – K0416 + 400 – K0426 + 500	Installation of Road Safety Devices Along Abra-Ilocos Norte Rd – K0427 + 000 – K0431 + 100	Construction of Catacdegan Flood Control, Manabo, Abra	Construction of Nauillian Flood Control Structure, La Paz, Abra	Project Description (As per GAA)
100,000,000.00	100,000,000.00	100,000,000.00	150,000,000.00	Amount (Php)

Attached for your reference are the Program of Works (POWs), Detailed Unit Price Analysis (DUPA), Project Plans, Certificate of Reasonableness of Cost Estimates and Geotagged Photos, etc.

For your evaluation, comments, and/or recommendations.

EUGENIA R PIPO, JR. Undersecretary for Regional Operations in CAR, Regions F, II, IX, X, XI, XII and XIII

3.5 JFF/ECL/AGC/ERP

10/28

	R				
	 A. Not Within a 'No Build Zone' A. Tree Cutting Permit (If Appli C. CNC/ECC/EIA (EMB) 10. Social Clearance (not within a Decli 11. Certificate of Reasonableness (for P 12. Project Details a. POW b. DUPA c. Plans c. Plans 1. Coverpage 3. Cross Section Sho 13. Certificate of Local Government Unit 			Project ID Project All scation : Php 150,000 1. M odilication Request Form 2. All s 3. Ce intificate of Availability of Funds 4. Su inponting Data & Analysis A. Road Condition (RB/A Late	Implemet, thing Office : Project No une/Location :
Checked by:	 In Nor Wilmin a 'No Build Zone" (MGB) In Tree Cutting Permit (If Applicable-EMB) In Tree Cutting Permit (If Applicable-EMB) In Coverpage In Coverpage<td>a. District Engineer b. Construction and Maintenance Division Chiefs / Clearance a. District Engineer b. LGU onmental Clearances</td><td> b. Traffic Volume Capacity Ratio (for Widening Projects) c. Bridge Condition (BMS Latest Official Database) d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges and Flood Control Projects) e. RSM Forms (for Road Slips) f. Project Impact Analysis (for Flood Control Projects) g. Master Plan (for Flood Control Projects) g. Master Plan (for Flood Control Projects) a. Hard Copy b. Electronic Copy c. Plotted in the GIS Map </td><td>: P00740307LZ UACS Code : 300219101297000 illication Request Form : illicate of Availability of Funds orting Data & Analysis : </td><td>CHECKLIST PROJECT MODIFICATION Abra District Engineering Office CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities , Construction of Naguillan Flood Control Structure, La Paz, Abra</td>	a. District Engineer b. Construction and Maintenance Division Chiefs / Clearance a. District Engineer b. LGU onmental Clearances	 b. Traffic Volume Capacity Ratio (for Widening Projects) c. Bridge Condition (BMS Latest Official Database) d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges and Flood Control Projects) e. RSM Forms (for Road Slips) f. Project Impact Analysis (for Flood Control Projects) g. Master Plan (for Flood Control Projects) g. Master Plan (for Flood Control Projects) a. Hard Copy b. Electronic Copy c. Plotted in the GIS Map 	: P00740307LZ UACS Code : 300219101297000 illication Request Form : illicate of Availability of Funds orting Data & Analysis :	CHECKLIST PROJECT MODIFICATION Abra District Engineering Office CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities , Construction of Naguillan Flood Control Structure, La Paz, Abra

ERLINDA F. BOLIENTE Engineer III Chief, Planning Section

100.00%	P 143,145,881.63	9	GRAND TOTAL	
39.14%	56,028,761.28	RS P	ballik and slope Protection Works	rait 1-b
0.92%	1,312,997.74	P	Edit/IWORKS	
51.91%	74,326,910.81	Works P	Eathering and slope Protection Works	
7.05%	10,085,522.96			>
0.0070	-/ //		Bridge Construction	Part F
0 000	1 224 480 54	ס	Other General Requirements	Part B
0.12%	167,208.30	P	Facilities for the Engineer	Part A
PERCENT Weight (%)	AMOUNT (Total Cost)		DESCRIPTION	NO.

June 22, 2023

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

CENTRAL OFFICE Manila

MEMORANDUM

FOR

- : Undersecretary EUGENIO R. PIPO, JR.
- For Regional Operations in CAR, Regions I, II, IX, X, XI, XII and XIII
- Subject ... Request for the Approval for Modification of the Projects: 1. SIPAG - Construction of Naguillan Flood Control Structure, La
- Paz, Abra
- ωŅ
- 002 Construction of Catacdegan Flood Control, Manabo, Abra CSSP Installation of Road Safety Devices along Abra Ilocos Norte Rd.- KO427+000 KO431+100 to KO427+023 KO430+967
- 4 CSSP - Installation of Road Safety Devices along Abra – Ilocos Norte Rd.–KO416+400 – KO426+500 to KO416+938 – K0426+392

evaluation, comments and/or recommendations relative to the request ion mountains of the above-enumerated projects. Hereunder are the results of the evaluation made by this This has reference to your memorandum dated June 5, 2023, requesting this Office for evaluation, comments and/or recommendations relative to the request for Modification of

Project No. 1

or manpower, equipment, unit prices of materials, utilization of no. of hours of equipment/manpower and rental rate of equipment. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and Detailed Engineering Design plans duly approved by the District Engineer, Abra District Engineering Office, CAR. The amount equivalent to Php150,000,000.00 for 402.80 Im of flood control structures as submitted were reduced to Php148,338,000.00 due to the corrections on the utilization

SCOPE OF WORK

ification-CAR-AbraDEO Page 2 of 5

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Cost per lineal meter of F.C. (exclude Part A & B)	
11	
Php141,754,192.79 402.80 l.m.	
11	
Php351,922.03/I.m.	

Cost of Bank and Slope Protection

Cost per lineal meter of F.C. (Part G-A & I-B only)
= <u>Php130,355,672.09</u> 402.80 l.m.
11
Php323,623.81/I.m.

The estimated cost of **Php351,922.03** per lineal meter for the Construction of Naguillan Flood Control Structure, La Paz, Abra is due to the design requirements as reflected in the massive volume of hand laid rock embankment of 4.00m to 6.59m in height at **51.90%** of sheet piles, L = 6.0m at 60 kg/m) which accounts to **39.14%** of the total project cost, and Bank & Slope Protection (concrete slope protection and steel coupled with recent price escalation and hauling of construction materials at 47.00 km away

(Part A, B, F, and I-A are excluded)

If Facilities for the Engineer, Other General Requirements, Bridge Construction and Earthworks are excluded in the computation, the resulting cost is only **Php323,623.81** per lineal 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 equivalent to **Php100,000,000.00** for 269.60 lm of flood control structures as submitted were reduced to **Php96,522,000.00** due to the corrections on the utilization of manpower, equipment, unit prices of materials, utilization of no. of hours of equipment/manpower and rental rate of equipment. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and Detailed Engineering Design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

		ATTAIN.		
NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	σ	157 512 00	(a)
		-	10,010,00	0.1/%
Part B	Other General Requirements	ס	1.090.605 24	1 170/
		T		0/ 77.7
raitr	Bridge Construction	P	14,686,673.63	15.77%
Part G-A	Drainage and Slope Protection Structure D	0	ייין גיון אין	
		-	C4.000,100,00	39.03%
Part I-A	Earthworks	σ	751 010 53	VULL O
		T		0.2770
rait 1-D	Bank and Slope Protection Works	ס	40,598,874.83	43 500%
	GRAND TOTAL	,		1010010
		τ	P 93,143,244.68	100.00%

SCOPE OF WORK

ification-CAR-AbraDEO Page 3 of 5

Cost per lineal meter of F.C. (exclude Part A & B) = Php91,895,126.44 269.60 l.m. 11 Php340,857.29/I.m.

Cost of Bank and Slope Protection

(Part G-A & I-B only) Cost per lineal meter of F.C. = <u>Php76,956,533,28</u> 269.60 l.m. H Php285,447.08/I.m.

The estimated cost of **Php340,857.29** per lineal meter for the Construction of Catacdegan Flood Control Structure, Manabo, Abra is due to the design requirements as reflected in the massive volume of hand laid rock embankment with 4.00m to 6.00m in height at **38.93%** of the total project cost, and Bank & Slope Protection (concrete slope protection and steel piles, L = 6.0m at 60 kg/m) which accounts to **43.58%** of the total project cost, cost, and hauling of construction materials at 35.00 km away

(Part A, B, F, and I-A are excluded)

involved are within the range of the prevailing cost of the Department. If Facilities for the Engineer, Other General Requirements, Bridge Construction and Earthworks are excluded in the computation, the resulting cost is only **Php285,447.08** per linear meter, hence it is considered reasonable as the Unit Costs of the items of work

Project No. 3

The amount equivalent to **P100,000,000.00** for 660 meter of installation of safety devices as submitted was reduced to **P99,878,000.00** due to the corrections on the utilization of manpower and unit prices of materials. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

NO. DESCRIPTION		UNT	PERCENT
	(Ioral Cost)	COSC	Weight (%)
P racillues for the Engineer	q	659,802.38	7089 U
Part B Other General Requirements	7		010010
		08.695,605	0.53%
Prait In Miscellaneous Structures p	P	95,212,260.65	08 700%
P P	P 96,31	96,381,632.84	100.00%
Cost per meter of Guardrail = p85 747 071 10			

P85,747,971.49 660 meters

11

P129,921.17/meter

The estimated cost of **Php129,921.17** per meter for the Installation of Road Safety Devices along Abra – Ilocos Norte Rd.–KO416+400 – KO426+500 to KO416+938 – Meter (2 lanes at 3.35m/lane), concrete subbase course, 0.28m thick PCC pavement at 6.7 Solar LED Streetlights (240 watts Solar Streetlight, Aluminum alloy, 18V 90W mono solar panel, 12V 60W 5600-600LM Philip, battery etc..) and introduction of new Double Roller Safety Barrier System (Rotating Barrel Ø 345mm x 240 mm, Main Post Ø 139.8 mm x2.2 m

P67,818,850.18 522 meters

P129,921.17/meter

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	p	659,802.38	0 600%
Part B	Other General Requirements	2		0, 60,0
rait D	Uther General Requirements	9	504,743.43	0.53%
Part C	Earthworks	ס	61,762.20	0.06%
Part E	Surface Courses	ס	458.517 57	700V O
-				0.7070
Part F	Bridge Construction	P	2,569,417.71	2.69%
Part H	Miscellaneous Structures	ס	91,349,848.23	95.55%
	GRAND TOTAL	ס	95,604,091.53	2000 001
Cost per me	Cost per meter of Guardrail	-	20/004/021.33	100.00%

The amount equivalent to **P100,000,000.00** for 522 meter of installation of safety devices as submitted was reduced to **P99,072,000.00** due to the corrections on the utilization of manpower and unit prices of materials. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

The estimated cost of **P129,921.17** per meter for the Installation of Road Safety Devices along Abra – Ilocos Norte Rd.- KO427+000 – KO431+100 to KO427+023 – KO430+967 to mono solar panel, 12V 60W 5600-600LM Philip, battery etc..) and introduction of new Double Roller Safety Barrier System (Rotating Barrel Ø 345mm x 240 mm, Main Post Ø 139.8 mm x2.2 m x 4.5 mm thk., Intermediate Post Ø 139.8 mm x 0.72 m x 4.5 mm thk., Frame Rail 100 mm x 80 mm x 3.2 mm thk., etc..) which accounts to **9.82%** and **88.97%**, respectively, of the total project cost 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

ification-CAR-AbraDEO Page 4 of 5

lification-CAR-AbraDEO Page 5 of 5

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x 4.5 mm thk., Intermediate Post \emptyset 139.8 mm x 0.72 m x 4.5 mm thk., Frame Rail 100 mm x 80 mm x 3.2 mm thk. Etc.) which accounts to **24.61%** and **70.94%**, respectively, of the total project cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

For the Undersecretary's information.

ARISTARCO M. DOROY OIC-Director, Bureau of Construction L

cc: Undersecretary MA. CATALINA E. CABRAL, PhD., CESO I, Planning and Public Partnership Services Undersecretary MAXIMO L. CARVAJAL, For Information Management and Technical Services OIC-Asst. Secretary REY PETER B. GILLE, For Regional Operations in CAR, Regions I, II, IX, XI, XII and XIII OIC-Asst. Secretary MEDMIER G. MALIG, For Information Management and Technical Services

6.1.1 RIC/CBC/JTS 06192023 Memo Modification-CAR-AbraDEO Ref. No. BOC- 6.1-409-6977/DoTs#6.1.1-226-04

June 22, 2023

MEMORANDUM

- FOR
- : Undersecretary EUGENIO R. PIPO, JR. For Regional Operations in CAR, Regions I, II, IX, X, XI, XII and XIII
- Subject ...
- Request for the Approval for Modification of the Projects: 1. SIPAG Construction of Naguillan Flood Control Structure, La
- ώŅ Paz, Abra 002 - Construction of Catacdegan Flood Control, Manabo, Abra CSSP - Installation of Road Safety Devices along Abra – Ilocos Norte Rd.- KO427+000 – KO431+100 to KO427+023 –
- 4. CSSP - Installation of Road Safety Devices along Abra – Ilocos Norte Rd.–KO416+400 – KO426+500 to KO416+938 – K0426+392

evaluation, comments and/or recommendations relative to the request for Modification or the above-enumerated projects. Hereunder are the results of the evaluation made by this This has reference to your memorandum dated June 5, 2023, requesting this Office for evaluation, comments and/or recommendations relative to the request for Modification of

Project No. 1

of manpower, equipment, unit prices of materials, utilization of no. of hours of equipment/manpower and rental rate of equipment. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and Detailed Engineering Design plans duly approved by the District Engineer, Abra District Engineering Office, CAR. The amount equivalent to Php150,000,000.00 for 402.80 Im of flood control structures as submitted were reduced to Php148,338,000.00 due to the corrections on the utilization

		A 1 1 1 1		
ITEM	DESCRIPTION		AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	U	167 702 701	101 Differen
		7	107,208.30	0.12%
Part B	Other General Requirements	ס	1,224,480.54	0.86%
Part F	Bridge Construction	P	10,085,522.96	7.05%
Part G-A	Drainage and Slope Protection Works	70	74,326,910.81	51.91%
Part I-A	Earthworks	σ	1,312,997.74	0.92%
Part I-B	Bank and Slope Protection Works	P	56,028,761.28	39.14%
	GRAND TOTAL	J	P 143,145,881.63	100.00%

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Cost per lineal meter of F.C. (exclude Part A & B)

11

Php141,754,192.79 = Php351,922.03/I.m. 402.80 I.m.

Cost of Bank and Slope Protection

Cost per lineal meter of F.C. (Part G-A & I-B only) = <u>Php130,355,672.09</u> 402.80 l.m. II Php323,623.81/I.m

The estimated cost of **Php351,922.03** per lineal meter for the Construction of Naguillan Flood Control Structure, La Paz, Abra is due to the design requirements as reflected in the approved design plans wherein the scope of works involves provisions of cut-off wall, massive volume of hand laid rock embankment of 4.00m to 6.59m in height at **51.90%** of the total project cost, and Bank & Slope Protection (concrete slope protection and steel sheet piles, L = 6.0m at 60 kg/m) which accounts to **39.14%** of the total project cost, coupled with recent price escalation and hauling of construction materials at 47.00 km away from the project.

(Part A, B, F, and I-A are excluded)

If Facilities for the Engineer, Other General Requirements, Bridge Construction and Earthworks are excluded in the computation, the resulting cost is only **Php323,623.81** per lineal 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

V The for an ULL

The amount equivalent to **Php100,000,000.00** for 269.60 Im of flood control structures as submitted were reduced to **Php96,522,000.00** due to the corrections on the utilization of manpower, equipment, unit prices of materials, utilization of no. of hours of equipment/manpower and rental rate of equipment. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and Detailed Engineering Design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

		APA		
ITEM	DESCRIPTION		AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	0	157.513.00	0 170/
		T		0.1/70
Part B	Other General Requirements	σ	1,090,605.24	1.17%
Part F	Bridge Construction	σ	14,686,673.63	15.77%
Dart C-A				
Part G-A	Drainage and Slope Protection Structure	σ	36,357,658.45	39.03%
Part T-A	Earthworke	1		
Part 1-A	Eartnworks	70	251,919.53	0.27%
Part I-B	Bank and Slope Protection Works	P	40,598,874.83	43.59%
	GRAND TOTAL	7	93,143,244.68	100.00%

SCOPE OF WORK

Vification-CAR-AbraDEO Page 3 of 5

Cost per lineal meter of F.C. (exclude Part A & B) 11

Php91,895,126.44 269.60 l.m. II Php340,857.29/l.m.

Cost of Bank and Slope Protection

Cost per lineal meter of F.C. (Part G-A & I-B only) = <u>Php76,956,533.28</u> 269.60 l.m. П Php285,447.08/I.m.

The estimated cost of **Php340,857.29** per lineal meter for the Construction of Catacdegan Flood Control Structure, Manabo, Abra is due to the design requirements as reflected in the approved design plans wherein the scope of works involves provisions of cut-off wall, massive volume of hand laid rock embankment with 4.00m to 6.00m in height at **38.93%** of the total project cost, and Bank & Slope Protection (concrete slope protection and steel sheet piles, L = 6.0m at 60 kg/m) which accounts to **43.58%** of the total project cost, coupled with recent price escalation and hauling of construction materials at 35.00 km away from the project.

(Part A, B, F, and I-A are excluded)

If Facilities for the Engineer, Other General Requirements, Bridge Construction and Earthworks are excluded in the computation, the resulting cost is only **Php285,447.08** per linear 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. 3

The amount equivalent to **P100,000,000.00** for 660 meter of installation of safety devices as submitted was reduced to **P99,878,000.00** due to the corrections on the utilization of manpower and unit prices of materials. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

	SCOPE OF WORK	OF WO	RK	
ITEM	DESCRIPTION		AMOUNT (Total Cost)	PERCENT
			(ISCAL COSC)	vveight (%)
Part A	Facilities for the Engineer	ס	659.807 38	0 600/
510	24			0.0070
railo	Uther General Requirements	P	509,569.80	7025 U
5				0, 77, 0
Part H	Miscellaneous Structures	ס	95,212,260.65	98.79%
	GRAND TOTAL	ס	VO LEY 182 40	
				100100 /0

Cost per meter of Guardrail

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P85,747,971.49 660 meters

11

P129,921.17/meter

The estimated cost of **Php129,921.17** per meter for the Installation of Road Safety Devices along Abra – Ilocos Norte Rd.–KO416+400 – KO426+500 to KO416+938 – KO426+392 to be made of aggregate subbase course, 0.28m thick PCC pavement at 6.7 meter (2 lanes at 3.35m/lane), concrete shoulder to be made of 2.00 meters wide bothside, Solar LED Streetlights (240 watts Solar Streetlight, Aluminum alloy, 18V 90W mono solar panel, 12V 60W 5600-600LM Philip, battery etc..) and introduction of new Double Roller Safety Barrier System (Rotating Barrel Ø 345mm x 240 mm, Main Post Ø 139.8 mm x2.2 m

522 meters

Cost

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	P	659,802.38	%009 U
-			Compoline.	0.0270
Part B	Other General Requirements	ס	504,743.43	0.53%
Part C	Earthworks	P	61,762.20	0.06%
Part E	Surface Courses	P	458,517.57	0 48%
				0.1070
Part F	Bridge Construction	P	2,569,417.71	2.69%
Part H	Miscellaneous Structures	ס	91,349,848.23	95.55%
	GRAND TOTAL	0	95,604,091.53	100.00%

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The amount equivalent to **P100,000,000.00** for 522 meter of installation of safety devices as submitted was reduced to **P99,072,000.00** due to the corrections on the utilization of manpower and unit prices of materials. Likewise, the items of works and corresponding quantities were based in the submitted Programs of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Abra District Engineering Office, CAR.

The estimated cost of **P129,921.17** per meter for the Installation of Road Safety Devices along Abra – Ilocos Norte Rd.- KO427+000 – KO431+100 to KO427+023 – KO430+967 to be made of Solar LED Streetlights (240 watts Solar Streetlight, Aluminum alloy, 18V 90W mono solar panel, 12V 60W 5600-600LM Philip, battery etc..) and introduction of new Double Roller Safety Barrier System (Rotating Barrel Ø 345mm x 240 mm, Main Post Ø 139.8 mm x2.2 m x 4.5 mm thk., Intermediate Post Ø 139.8 mm x 0.72 m x 4.5 mm thk., Frame Rail 100 mm x 80 mm x 3.2 mm thk., etc..) which accounts to **9.82%** and **88.97%**, respectively, of the total project cost 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

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x 4.5 mm thk., Intermediate Post Ø 139.8 mm x 0.72 m x 4.5 mm thk., Frame Rail 100 mm x 80 mm x 3.2 mm thk. Etc.) which accounts to **24.61%** and **70.94%**, respectively, of the total project cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

For the Undersecretary's information.

ARISTARCO M. DOROY OFC-Director, Bureau of Construction U

cc: Undersecretary MA, CATALINA E, CABRAL, PhD., CESO I, Planning and Public Partnership Services Undersecretary MAXIMO L. CARVAJAL, For Information Management and Technical Services OIC-Asst. Secretary REY PETER B. GILLE, For Regional Operations in CAR, Regions I, II, IX, XI, XII and XIII OIC-Asst. Secretary MEDMIER G. MALIG, For Information Management and Technical Services

OIC-Asst.Dir. MIP JTS G CBC -& RIC - §

6.1.1 RIC/CBC/JTS 06192023 Memo Modification-CAR-AbraDEO Ref. No. BOC- 6.1-409-6977/DoTs#6.1.1-226-04



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CENTRAL OFFICE Bonifacio Drive, Port Area, Manila

June 05, 2023

MEMORANDUM

TO : ARISTARCO M. DOROY Office of the Director, Bureau of Construction Officer-in-Charge This Department



Referred herewith is a Project Modification request of **DPWH District Engineer JOSELITO T. ARAO, Abra District Engineering Office,** under FY 2023 GAA, to wit:

Item No.	Project ID	Project Description (As per GAA)	Amount (Php)
н	P00740307LZ	Construction of Nauillian Flood Control Structure, La Paz, Abra	150,000,000.00
2	P00726859LZ	Construction of Catacdegan Flood Control, Manabo, Abra	100,000,000.00
ω	P00739551LZ \re	Installation of Road Safety Devices Along Abra-Ilocos Norte Rd – K0427 + 000 – 1/10 K0431 + 100	100,000,000.00
4	P00739550LZ	Installation of Road Safety Devices Along Abra-Ilocos Norte Rd – K0416 + 400 – K0426 + 500	100,000,000.00

Attached for your reference are the Program of Works (POWs), Detailed Unit Price Analysis (DUPA), Project Plans, Certificate of Reasonableness of Cost Estimates and Geotagged Photos, etc.

For your evaluation, comments, and/or recommendations.

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

3.5 JFF/ECL/AGC/ERP

EAO		CW1	Component ID	13. UNIT COST (Enter Details for all Components below)	Cick nere to enter text.					ARGE	11. ALLOTMENT (P'000) (as recorded in GAA)	Construction of Naguillan Flood Control Structure, Paz, Abra	10. PROJECT DESCRIPTION (as recorded in GAA)	Click here to enter text.	Click here to enter text.	EAO	CWI	Component ID	9. Type of Work (Enter Details for all Components below)	8. Operating Unit Central Office	7. Sub-Program (P/A/P) Sustainable Infrastructur Infrastructures/Pacilities	6. Project Category Convergence and S ₁	5. Project Id P00740307LZ	4. UACS (Unified Accord 300219101297000 /		1. REGION Cordillera Administrative Region		
5250 1	/ DOLLEY	144750	Component Cost (P'000)	etails for all Component	Click here to enter text.	UNCK here to enter text.	Click here to enter text.	1230.745	larget	(Enter Details for all Co	00) (as recorded in GAA	uillan Flood Contro	PTION (as recorded in ((hoose an item.	Choose an item.	Choose an item.	Construction of Structure	Type of Work	er Details for all Compor		A/P) weture Projects Alle littles ,	6. Project Category Convergence and Special Support Program		 UACS (Unified Account Code Structure as defined in GAA) 300219101297000 / 	B. ORIGINAL PROJECT	ve Region >		
Click here to enter text.	111.01109	117 GT160	Target Unit Cost	s below)	Choose an item.	Choose an item.	Choose an item.	Lineal Meters (lm) ~	Target Unit	all Components below)		d Structure, La	244)				Construction of Flood Mitigation Structure		vents below)		viating Caps (SIP)	-		efined in GAA)		2. DEO Abra District Engineering Office		Modifica
EAO	CWI	CWD-1	Component ID	24. UNIT COST (Enter Details for all Components	Click here to enter text.	Click here to enter text.	EAO	CWI	Component ID	23. PHYSICAL TARGET (Enter Details	21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 150000 /	Construction of Naguillan Flood Control Structure, La Paz, Abra /		Click hore to anter tout	Click here to enter lost.	EA0	CWI	Component ID	19. Type of Work (Enter Details for all Compon	18. Operating Unit (Change subject to DBM ap Central Office 、	7. Sub-Program (P/A/P) Sustainable Infrastructure Projects Alleviating Caps (SIPAG) - Flood Mitigation Structures Infrastructures/Facilities ,				G 5	eering Office	A. GENERAL	Modification Request Form
5250	144750	(00074)	Component Cost	tails for all Components	Click here to enter text	Click here to enter text	Click here to enter text	407.40	Target	(Enter Details for all Com		illan Flood Control	Ghoese an item.	CHOOSE MU MENT.	Chouse on Day	Choose an item.	Construction of Structure	Type of Work	er Details for all Compor	hange subject to DBM aj	protecting				PROPOSED REVISED	3. LEGISLATIVE Abra Lone District		3
Click here to enter text.	355.30191	(P'000/Target Unit)		belo	rt. Choose an item.	d. Choose an item.	kt. Choose an item,	Lineal Meters (Im)	Target Unit	nponents below)	22. CAF (To be obtained from Financial Management office) □ YES	oject) Structure, La Paz,					Flood Mitigation		nents helow)	pproval)	Public				OPROJECT	3. LEGISLATIVE DISTRICT Abra Lone District		

		Modificat	iviodification Request Form	1	
Click here to enter text. Cli	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter te	xt. Click here to enter text
Click here to enter text. Cli	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter ter	ξā.
14. PROJECT WORK LOCATION (Must be defined in strid	ATION (Must be de	fined in strict	25. PROJECT WIDEK I		
accordance with DO 65 Series 2014) Click here to enter text.	2014)		DO 65 Series 2014, Also complete "ANNEX A"	OCATION (Must be defined or or plete "ANNEX A"	ned in strict accordance with for National Road
			Click here to enter text.		
Start X 120.639	End X	120.635	Start X 120.639	End X	190 695
Start Y 17.6415	End Y	17.6388	Start Y 17 6415		120.000
15. ROAD CLASSIFICATION (if applicable)	N (If applicable)		6		17.6388
			Choose an item.	fairear in the second	
AD. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Abra District Engineering Office	DE (Record the Imple g Office	menting Office of the	27. IMPLEMENTING OFFICE (Record the Implementing Office of the proposed revised project)	FICE (Record the Impler	nenting Office of the
17. PROJECT IMPLEMENTATION PLAN (PIP)	ATION PLAN (PIP		Abra District Engineering Office	ring Office	
Planned Start Date	Planned End Date	nd Date	and the second sec	MIATION PLAN (PIP)	
August 1, 2023	May 22, 2024	124	August 1, 2023	Planned End	l Date
				202 trait 202	-
			29. OVERLAP?	30. UNDER V	VARRANTVO
*		D. ATTACHMEN	29. OVERLAP? NO YES TS & JUSTIFICATIONS	30. UNDER WARRANTY?	VARRANTY?
31. PROJECT IMPACT ANALYSIS ATTACHED? [For Flood Control Projects]	VSIS ATTACHED	D. ATTACHMEN	OVERLAP?	30. UNDER V ⊠ NO	VARRANTY?
31. PROJECT IMPACT ANAI NO VES 32. TECHNICAL JUSTIFICAT	.YSIS ATTACHED	D. ATTACHMEN	29. OVERLAP? NO PYES IS & JUSTIFICATIONS ojects) t; minimum of 2 points:	30. UNDER V 凶 NO	VARRANTY?
OJECT	VSIS ATTACHED:	D. ATTACHMEN [For Flood Control P.	29. OVERLAP? NO VES IS & JUSTIFICATIONS ojects) t; minimum of 2 points}	30. UNDER V 区 NO	VARRANTY?
 31. PROJECT IMPACT ANAI ➢ NO □ YES 32. TECHNICAL JUSTIFICATI • The increase i concrete dike cost. The stee proposed miti • Also, the huge cost of the pro 	VSIS ATTACHED; UN/A ON (Explain in deta ON (Explain in deta on unit cost which type of flood mit sheet piles are n gation and ensur /massive rock en ject.	D. ATTACHMEN (For Flood Controf Pe) (For Flood Controf Pe) Tresulted to the d igation structure ecessary to preve e over-all stability bankment consis	29. OVERLAP? 30. UNDER WARRANTY? NO YES NO YES IMPACT ANALYSIS ATTACHED? [For Flood Control Projects] Impact analysis attached control Projects] Impact analysis attached control Projects] L JUSTIFICATION [Explain in detail in Bullet point format; minimum of 2 points] Impact and ensure over a second control project is due to the usage of a reinforced concrete dike type of flood mitigation structure with steel sheet piles consisting of 38.68% of the project direct proposed mitigation and ensure over-all stability of the project area. Also, the huge/massive rock embankment consisting of 50.09% of the project cost contributed to the high mit	30. UNDER V NO Arget is due to the us sisting of 38.68% of failure along the fou	VARRANTY? VES ves ves ves ves ves ves ves ves
31. PROJECT IMPACT ANAI ⊠ NO □ YES 32. TECHNICAL JUSTIFICATI • The increase i concrete dike cost. The steel proposed miti Also, the huge cost of the pro • The derived u (POW) with re 2023.	VSIS ATTACHED; UN/A ON (Explain in deta n unit cost which type of flood min sheet piles are n gation and ensur fation and ensur /massive rock en ject. uit cost is based	D. ATTACHMEN (For Flood Control P) (For Flood Control P) Tesultet point forma 1 in Bullet point forma 1 in Bullet point forma igntion structure accessary to preve accessary t	29. OVERLAP? 30. UNDER V NO YES NO IMPACT AMALYSIS ATTACHED? [For Flood Control Projects] Impact analysis attached? Impact analysis YES N/A AL JUSTIFICATION [Explain in detail in Bullet point format: minimum of 2 points] Impact areas in unit cost which resulted to the decrease in the physical target is due to the use concrete dike type of flood mitigation structure with steel sheet piles consisting of 38.68% of proposed mitigation and ensure over-all stability of the project area. Also, the huge/massive rock embankment consisting of 50.09% of the project cost contributed for the project. The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Proposed 2023.	30. UNDER V ⊠ NO № NO No No No No No No No No No No	VARRANITY? VES ves ves ves ves ves ves ves ves
31. PROJECT IMPACT ANAI ⊠ NO □ YES 32. TECHNICAL JUSTIFICATI • The increase i concrete dike cost. The steel proposed miti. • Also, the huge cost of the pro The derived u (POW) with re 2023. • See attached C Reasonablenes	VSIS ATTACHED; N/SIS ATTACHED; N/A ON (Explain in detain n unit cost which type of flood min sheet piles are n gation and ensur fact, ject, it cost is based ference to the ev ference to the ev fors-Section Dra	D. ATTACHMEN For Flood Control P For Flood Control P For Stand to the d igation structure ecessary to preve e over-all stability bankment consis ou the approved J aluation made by aluation made by the Proje	29. OVERLAP? 30. UNDER WARRANTY? NO YES NO YES IMPACT AMALYSIS ATTACHED? (For Flood Control Projects) NO YES VES N/A AL JUSTIFICATION (Explain In detail in Bullet point format; minimum of 2 points) The increase in unit cost which resulted to the decrease in the physical target is due to the usage of a reinforc cost. The steel sheet piles are necessary to prevent scouring and possible failure along the foundation of the project area. Also, the huge/massive rock embankment consisting of 50.09% of the project cost contributed to the high null cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works 2023. See attached Cross-Section Drawing of the Project Submitted by the District Engineer, and the Certificate of Reasonableness of Cost Estimates signed by the Regional Director.	30. UNDER V 30. UNDER V 30. NO NO NO NO NO NO NO NO NO NO	UARRANITY? □ YES age of a reinforced the project direct ndation of the 1 to the high unit dum dated June 26 dum dated June 26
31. PROJECT IMPACT ANAI ⊠ NO □ YES 32. TECHNICAL JUSTIFICATI • The increase i concrete dike cost. The steel proposed miti • Also, the huge cost of the pro • The derived u (POW) with rx 2023. • See attached C Reasonablenes	VSIS ATTACHED; IN/A ON (Explain in deta on unit cost which type of flood mit sheet piles are n gation and ensur /massive rock en ject. it cost is based ference to the ev ross-Section Dra s of Cost Estima	D. ATTACHMEN For Flood Control point form in Bullet point form resulted to the d igntion structure ecessary to preve e over-all stability ubankment consis aluation made by aluation made by the signed by the	29. OVERLAP? NO VES D. ATTACHMENTS & JUSTIFICATIONS IMPACT ANALYSIS ATTACHED? [For Flood Control Projects] VES N/A AL JUSTIFICATION [Explain in detail in Bullet point format; minimum of 2 points] The increase in unit cost which resulted to the decrease in the physical to concrete dike type of flood mitigation structure with steel sheet piles con proposed mitigation and ensure over-all stability of the project area. Also, the hage/massive rock embankment consisting of 50.09% of the pro- proposed mitigation and ensure over-all stability of the project area. The derived unit cost is based on the approved Detailed Unit Price Anal (POW) with reference to the evaluation made by the Bureau of Construc See attached Cross-Section Drawing of the Project Submitted by the Dist Reasonableness of Cost Estimates signed by the Regional Director.	30. UNDERV NO No arget is due to the us sisting of 38.68% of failure along the fou pject cost contribute pject cost contribute visis (DUPA) and Pr tion as per memoran tion as per memoran tion the transformed the	VARRANTY? □ YES age of a reinforced the project direct ndation of the d to the high mit d to the high mit dum dated June 26, he Certificate of
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	· 35.	35. PREPARED BY:	
Name:	MELGIEWYES D. JAVIER	Position:	ENGINEER H
Office:	Abra District Engineering Office	Date:	Click here to enter a date.
36. REVIE	36. REVIEWED BY DISTRIC OFFICE (If Required)		38. REVIEWED BY REGIONAL OFFICE
Name:	CHONA LUISA A. RAMOS	Name:	ANGELITARAABITAZAN
Position:	Chief, Planning and Design Section	Position:	Chief, Planning and Design Division
Date:	_	Date:	
37. RECOMIN	37. RECOMMENDED BY DISTRICT OFFICE (If Required)		39. RECOMMENDED BY REGIONAL OFFICE
Name:	JOSEI MOTANAO	Name:	KHADAFEY DANGOL
Position:	District Lingineer	Position:	Regional Director
Date:		Date:	

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UACS (Unified Acc 300219101297000 Project Id P0074030717	UACS (Unified Account Code Structure as defined in GAA) 300219101297000 Project Id	fined in GAA)		
	40. DPWH OFFICE OF THE UNDERSECRETARIES FOD ODED ATTOMS	OF THE UNDERSEC	RETARTES FOR ON	EDATTONC
Primary Reason	Primary Reason for Request (based on Category of Modification): (choose one)	on Category of Mo	dification): (choose	one)
Category A	Category B	Category C	Category D	Impact
Typographical error on Project Description	 Overlapping Sections Change in Station Limits Change in Physical Target 	 No such Barangay No such City or Municipality 	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
	Reviewed by O	ffice of the Unders	Reviewed by Office of the Undersecretary for Operations	tions
Name:	Engr. MANUEL L SINGSON	SON	Engr. ANTONIO	Engr. ANTONIO V. SOBREVIÑAS, JR.
Signature	6		N	R
Position:	Project Manager I		Project Manager II	TH I
Date:	alpha		1/8	8/10-123
	41	41. DPWH PLANNING SERVICE	3 SERVICE	
Category of Modification (please check the appropriate)		 Category A – Typographical Error Category B – Change in Station Limits / tavg ets Category C – Change in Location, due to non-exist Category D – Change in Operating Unit (requires D Modification does not comply with DBM Categories 	Category A – Typographical Error Category B – Change in Station Limits $/4_{avg}$ ets Category C – Change in Location, due to non-existing location Category D – Change in Operating Unit (requires DBM approval) Modification does not comply with DBM Categories	ocation approval)
	Re	Reviewed by Planning Service	ig Service	
Name: A	ANNA ANDREA M. NOCHE	E Name:	PETER PAUL R. CORTEZ	NRTEZ
Signature	Andrew	Signature:	the the	
Position:	CAR-Regional Coordinator	or Position:	Chief of Programming Division	ning Division

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