MARIA CATALINA E. CABRAL, CESO I, Ph.D. Undersecretary for Planning and PPP Services	Project ID:     P00726381LZ     ACTION SLIP     Date:       FOR SECRETARY MANUEL M. BONOAN OR     Reviewed by Planning Service     Reviewed by Planning Service       Recommended for Approval     Recommended for Approval	Undersecretary for Operations Secretary ALEX 6, BOTE	<ul> <li>D.2 Additional Project Component</li> <li>D.3 Certificate of Cost Reasonableness by RD</li> <li>D.4 Remarks: Change in targets with 28.72% increase in unit Cost. Reviewed by BOC dated September 22, 2023: reduced amount from Php150,000,000.00 to Php147,338,088.15 and an excess amount of Php2,661,911.85</li> <li>E. Approving Authority as per D.O. 13, s. 2023, Guidelines on Modification of Allotment under</li> </ul>	0.1 1.1 1.2 1.1 1.1 1.2 1.1 1.2 1.	A.2.5.3       Change in Component Amount         A.2.5.4       Addition of Component (incl. EXC Component)         A.2.5.5       Deletion of Component (incl. EXC Component)         B.1       ✓         B.1       ✓         ALLOWED as per the GAA Provisions         B.2       NOT ALLOWED as per the GAA Provisions         C.       FUND SOURCE FY 2023 GAA, R.A. 11936	A.2 PROJECT MODIFICATION/ADJUSTMENTS          A.2.1       Typographical Error/s         A.2.1       Typographical Error/s         A.2.2       Change in Location (for non-existent locations only)         A.2.3       Change in Station Limits         A.2.4       Addition/Deletion of Word/s         A.2.5       Change in Project Component/s Details         A.2.5.1       Change in Targets         Change in Scope of Work       from	Danglas, Aura       Appropriation:         Ing Office:       Abra District Engineering Office       Date:         TYPE OF REOUEST       Change in Implementing Office/Operating Unit due to       Date:         A.1.1       Geographical Jurisdiction       Operating Unit due to         A.1.2       Approval of Authority to Bid/Implement       Division	Programming Division Evaluation Sheet Project ID: P00: Itrol Structure along Abra Major River Basin (Phase II), Barangay	
									<b>CAR-167</b> ՌՈԵ <sup>ջ (</sup>

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



October 5, 2023

#### MEMORANDUM

FOR ... This Department Secretary MANUEL M. BONOAN

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; This refers to the memorandum dated 8 September 2023 of DPWH CAR Regional

	1					Justification:	
	₱150,000,000.00	Total:		₱150,000,000.00	Total:		
U	₽2,661,911.85	Excess:	Jellen N.				
	P 5,156,833.09		EAO	₱5,250,000.00	Ē.	EAO	
	P 142,181,255.06	<b>₱ 151,385.49</b> / I.m.	CW1- Construction of Flood Mitigation Structure/ 939.20 l.m.	₱144,750,000.00	₱ 117,611.69/ l.m.	CW1- Construction of Flood Mitigation Structure / 1230.745l.m.	
	Estimated Cost	Unit Cost	Type of Work/ Physical Target	Allocation	Unit Cost	Type of Work/ Physical Target	
	ong Abra Major River nglas, Abra	Control Structure al ngay Caupasan, Dai	Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra	ng Abra Major River Jlas, Abra	ontrol Structure alo gay Caupasan, Dang	Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra	
	: Major Floods, ation Facilities within	d Properties Against ation of Flood Mitig: d Principal River,	OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River,	Major Floods, ion Facilities within	Properties Against I tion of Flood Mitigat Principal River,	002: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River,	
					5200000 \$1LZ	UACS No.:320102105200000 Project ID:P00726381LZ	
			escription	Project Description			
		As Modified		1	As per GAA/Original	As	

- . 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 80.12% of the project direct cost. The usage of steel sheet piles is necessary to prevent scouring and possible failure along the foundation of the proposed flood mitigation structure and ensure over-all stability of the project area.
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- The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 10.09% and 5.73% of the project cost respectively, also contributed to the high unit cost of the project. The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW) with reference to the evaluation made by the Bureau of Construction as per memorandum dated September 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 15410-2168Ne- NJ + 10- NH3/





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

Department of Public Works and Highways Office of the Secretary WIN3E03203 2.3 mksa/MLS/AVS/RPBG/ERP and Public-Private Partnership Services **REY PETER B. GILLE, D.M.** Assistant Secretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII, and XIII Secretar MANUEL M. BONOAN APPROVED/DISAPPROVED: Undersecretary for Planning MARIA CATALINA E. CABRAL, Ph.D., CESO I RECOMMENDING APPROVAL: Based on our evaluation, the submitted request for modification of the said project is in order; hence approval hereof is recommended. .....  $\hat{\tau}_{\mu}$ Ð Undersecretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII, and XIII

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UACS No.: 320102105200000 Project ID: P00726381LZ

Page 2 of 2

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



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Justification:

Total:

**P150,000,000.00** 

Total:

**P150,000,000.00** 

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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 80.12% of the project direct cost. The usage of steel sheet piles is necessary to prevent scouring and possible failure along the foundation of the proposed flood mitigation structure and ensure over-all stability of the project area. The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 10.09% and 5.73% of the project cost respectively, also contributed to the high unit cost of the project. The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW) with reference to the evaluation made by the Bureau of Construction as per memorandum dated September 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.

- CW1- Construction of **Physical Target** Flood Mitigation ₱ 117,611.69/
- Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Type of Work/ 1230.745l.m. Structure / EAO **Unit Cost** Ŀ.m. 1 ₱144,750,000.00 ₱5,250,000.00 Allocation Basin (Phase II), Barangay Caupasan, Danglas, Abra Construction of Flood Control Structure along Abra Major River 002: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, CW1- Construction of Flood Mitigation **Physical Target** Type of Work/ 939.20 l.m. Structure/ EAO ∎ 151,385.49/ Unit Cost 3 Excess: Ü ₱ 5,156,833.09 **P2,661,911.85** 142,181,255.06 **Estimated Cost**



#### MEMORANDUM

FOR ... Secretary MANUEL M. BONOAN

refers to the memorandum dated 8 September 2023 of DPWH CAR

This **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; Regional

This Department

UACS No.:320102105200000 Project ID:P00726381LZ

As per GAA/Original

Project Description

As Modified

Bonifacio Drive, Port Area, Manila

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYSYS

OFFICE OF THE SECRETARY



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.

**REY PETER B. GILLE, D.M.** Assistant Secretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII, and XIII

**RECOMMENDING APPROVAL:** 

MARIA CATALINA E. CABRAL, Ph.D., CESO I Undersecretary for Planning and Public-Private Partnership Services

APPROVED / DISAPPROVED: Ma K

Secretary Conoan

2.3 mksa/MLS/AVS/RPBG/ERP

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Underse in CAP EUGENIQ Reg 3 ary for Regional Operations ons I, II, IX, X, XI, XII, and XIII IPO, JR.



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

September 22, 2023

#### MEMORANDUM

- FOR . Undersecretary EUGENIO R. PIPO, JR. For Regional Operations in CAR, Region I, II, IX, X, XI, XII and XIII
- SUBJECT ... Request for Modification of Twelve (12) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P 1,400,000,000.00
- .... Abra Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, P00727254LZ – OO2: Protect Lives and Properties Against
- 2 P00726387LZ – OO2: Protect Lives and Properties Against Maior Floods, Construction/Rehabilitation of Flood Major River Basin, Barangay San Jose Sur, Manabo, Abra River, Mitigation Facilities within Major River Basins and Principal **Construction of Flood Control Structure along Abra**
- μ Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Abra Major River Basin, Barangay Palaquio, Bucay, Abra P00726385LZ – OO2: Protect Lives and Properties Against Major Floods, **Construction/Rehabilitation ç** Flood
- 4 Patagui-Dagsian Flood Control Structure, La Paz, Abra Alleviating Gaps (SIPAG) – Flood Mitigation Protecting Public Infrastructure/Facilities, Consi P00740308LZ L Sustainable Infrastructure **Construction** of Structure Project
- បុ Abra Mitigation Facilities within Major River Basins and Principal P00726381LZ – OO2: Protect Lives and Properties Against River, Construction of Flood Control Structure along Major Abra River Basin (Phase II), Barangay Caupasan, Danglas, Major Floods, **Construction/Rehabilitation** <u>0</u> Flood
- Ģ Alleviating Gaps (SIPAG) – Flood Mitigation structure protecting Public Infrastructure/Facilities, Construction of P00740312LZ Palaquio Flood Control Structure, Bucay, Abra 1 (SIPAG) - Flood Mitigation Sustainable Infrastructure Project

Request for Modification of Twowe (12) Various Projects Prepared by DPWH Abra District Engineering Office with the amount of P1,400,000,000.00 the (

Page **2** of **7** 

- 2 Devices Along Abra-Ilocos Norte Rd – K0427 + 023 – K0430 PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety P00739551LZ -+ 967 CONVERGENCE AND SPECIAL SUPPORT
- 0 PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Kalinga Rd – K0441 + 001.8 – K0449 + 943.0 P00739555LZ -CONVERGENCE AND SPECIAL SUPPORT
- 9 PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety P00739552LZ -Devices Along Abra-Ilocos Norte Rd – K0431 + 104 – K0432 + 050 CONVERGENCE AND SPECIAL SUPPORT
- **10** (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Ilocos Norte Rd – K0432 + 058 – K0433 P00739553LZ -PROGRAM, Special Road Fund – Motor Vehicle User's Charge + 460 CONVERGENCE AND SPECIAL SUPPORT
- 11. 066 PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Kalinga Rd – K0433 + 587 – K0440 + P00739554LZ -CONVERGENCE AND SPECIAL SUPPORT
- 5 P00739550LZ -+Devices Along Abra-Ilocos Norte Rd – K0416 + 938 – K0426 PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety 392 CONVERGENCE AND SPECIAL SUPPORT

submission of the lacking documents, through Memorandum dated August 08, 2023 (Annex "B"), however, twelve (12) projects of which were resubmitted by that Implementing Office on September 08, 2023 (Annex "C"). Likewise, six (6) of the projects (Project Nos. 7 to 12) were withdrawn due to necessary corrections on the Detailed Unit Price Analysis (DUPAs) per Memorandum dated September 20, 2023 (Annex "D") of the District Engineer, Abra District Forwarded herewith are the results of the review/evaluation for the six (6) projects (Project Nos. 1 to 6) out of fifteen (15) projects requested for modification which were referred to this Office per Memorandum dated August 02, 2023 **(Annex "A").** Please be informed that the aforementioned fifteen (15) projects were returned by this Office for compliance and Engineering Office, CAR

Request for Modification of Tweiner (12) Various Projects Prepared by DPWH Abremistrict Engineering Office with the task mount of P1,400,000,000.00

Page **3** of **7** 

## SCOPE OF WORK OF PROJECT NO. 1:

Likewise, the items of work and corresponding quantities were based on the Approved Program of Works (POWs) and Detailed Engineering Design plans duly approved by the District Engineer, DPWH - Abra DEO. (inclusive of EAO) due to the corrections made on the quantities and unit cost of materials Bangbangcag Flood Control Structure as submitted was reduced to P98,121,072.74 The amount of P100,000,000.00 (inclusive of EAO) for the 313.20 linear meter

100.00%	94,686,835.19	GRAND TOTAL	GRANI	
50,48%	47,802,204.46	Part I-B Bank and Slope Protection P	-B Bank ar	Part I-
0.52%	489,564.83	yrks P	-A Earthworks	Part I-A
43.88%	41,549,624.59	Drainage and Slope Protection P Structures		Part G-A
3.77%	3,571,046.34	Bridge Construction P		Part F
1.18%	1,116,882.37	Other General Requirements P		Part B
0.17%	157,512.60	Facilities for the Engineer P		Part A
PERCENT Weight (%)	AMOUNT (Total Cost)	DESCRIPTION	. 3	ITEM

Mitigation Structure Cost per linear meter of Flood II P 94,686,835.19 313.20 lin. m. 11 P 302,320.67 /lin. m.

The cost per linear meter of **P302,320.67** as modified is due to the design requirements as reflected in the duly approved plans considering all items of work from Parts A to I-B. The estimated cost per linear meter includes the use of a considerable amount of 21,971.88 cubic meter of Hand-laid Rock Embankment and 4,698.00 meters of Steel Sheet Piles, which account to 43.88% and 31.59% respectively, or an aggregate amount of **75.47%** of the total project cost. Hence, it is considered reasonable as the Unit Costs of the pay items of work involved are within the range of the prevailing cost of the Department.

## SCOPE OF WORK OF PROJECT NO. 2:

The amount of **P150,000,000.00** (inclusive of EAO) for the **494.00 linear meter** Flood Control Structure in Barangay San Jose Sur, Manabo as submitted was reduced to **P147,088,594.16** (inclusive of EAO) due to the corrections made on the quantities and unit cost of materials. Likewise, the items of work and corresponding quantities were based on the Approved Program of Works (POWs) and Detailed Engineering Design plans duly approved by the District Engineer, DPWH - Abra DEO.

Request for Modification of Twelve (12) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,400,000,000.00

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ITEM	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
Part A	Facilities for the Engineer	P 167,208.30	0.12%
Part B	Other General Requirements	P 1,486,100.39	1.05%
Part F	Bridge Construction	P 6,942,406.94	4.89%
Part G-A	Drainage and Slope Protection Structures	P 49,150,369.05	34.63%
Part I-A	Earthworks	P 849,199.31	0.60%
Part I-B	Bank and Slope Protection	P 83,345,209.36	58.72%
	GRAND TOTAL	P 141,940,493.36	100.00%
Cost per linear me Mitigation Structure	Cost per linear meter of Flood = <u>P 141,940,493.36</u> Mitigation Structure 494.00 lin. m.	<u>93.36</u> = P 287,328.93 /lin. m. m.	93 /lin. m.

are within the range of the prevailing cost of the Department. cost. Hence, it is considered reasonable as the Unit Costs of the pay items of work involved to 34.63% and 33.61% respectively, or an aggregate amount of 68.24% of the total project meter of Hand-laid Rock Embankment and 7,410.00 meters of Steel Sheet Piles, which account estimated cost per linear meter includes the use of a considerable amount of 49,868.32 cubic reflected in the duly approved plans considering all items of work from Parts A to I-B. The The cost per linear meter of P287,328.93 as modified is due to the design requirements as

### SCOPE OF WORK OF PROJECT NO. 3

due to the corrections in the price of reinforcing steel for item 404 and gravel for item 405 & 1712(2). 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, DPWH Abra DEO. meter of flood control as submitted were reduced to P148,023,062.20 (inclusive of EAO) The amount equivalent to P150,000,000.00 (inclusive of EAO) for the 460.00 linear

ITEM	DESCRIPTION		AMOUNT	PERCENT
NO.			(Total Cost)	Weight (%)
Part A	Facilities for the Engineer	ס	167,208,30	0.12%
Part B	Other General Requirements	ס	1,528,743.47	1.07%
Part I-A	Part I-A Earthworks	ס	1,129,594.88	0.79%
Part I-B	Part I-B Bank and Slope Protection Works	ס	71,183,439.97	49.83%

Request for Modification of Twelve (12) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,400,000,000.00

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Page 5 of 7

100.00%	142,842,255.02	q	GRAND TOTAL	
44.51%	63,581,173.51	q	Part G-A Bank and Slope Protection	Part G-A
3.68%	5,252,094.89	<b>q</b> .	Bridge Construction	Part F

Mitigation Structure Cost per linear meter of Flood ü P 142,842,255.02 460.00 lin. m. 11 P 310,526.64 /lin. m.

Structure Along Major Abra River Basin, Barangay Palaquio, Bucay, Abra is due to the design requirements as reflected in the approved design plans and DUPA wherein the scope of works involves the provisions of concrete slope protection and steel sheet piles, L = 6.0m at 60.0 The estimated cost of P310,526.64 per linear meter for the Construction of Flood Control kg/m, which accounts to **98.81%** of the total project cost.

## SCOPE OF WORK OF PROJECT NO. 4:

Programs of Works (POW) and Detailed Engineering Design plans duly approved by the District Engineer, DPWH Abra DEO. Likewise, The amount equivalent to **P150,000,000.00** (inclusive of EAO) for **613.20 linear meter** of protection dike as submitted were reduced to **P147,816,687.50** (inclusive of EAO) due to the corrections in the price of reinforcing steel for item 404 and gravel for item 405 & 1712(2). the items of works and corresponding quantities were based in the submitted

100.00%	P 142,643,103.44	ס	GRAND TOTAL	
34.49%	49,192,599.99	P	Bank and Slope Protection	Part G-A
4.50%	6,413,898.05	P	Bridge Construction	Part F
59.07%	84,257,346.84	P	Bank and Slope Protection Works	Part I-B
0.80%	1,137,137.21	P	Earthworks	Part I-A
1.03%	1,474,913.04	P	Other General Requirements	Part B
0.12%	167,208.30	ס	Facilities for the Engineer	Part A
PERCENT Weight (%)	AMOUNT (Total Cost)		DESCRIPTION	ITEM

Mitigation Structure Cost per linear meter of Flood Ш

P 142,643,103.44 613.20 lin. m. Ш P 232,620.85 /lin. m.

Flood Control Structure, La Paz, Abra is due to the design requirements as reflected in the approved design plans and DUPA wherein the scope of works involves the provisions of 98.85% of the total project cost. concrete slope protection and steel sheet piles, Flood Control Structure, La Paz, Abra The estimated cost of P232,620.85 per linear meter for the Construction of Patagui-Dagsian Ē 6.0m at 60.0 kg/m, which accounts to

Request for Modification of Two (12) Various Projects Prepared by DPWH Ab the t. District Engineering Office with amount of P1,400,000,000.00

Page **6** of **7** 

## SCOPE OF WORK OF PROJECT NO, 5:

floodway as submitted were reduced to **P147,338,088.15** (inclusive of EAO) due to the corrections in the price of reinforcing steel for item 404 and gravel for item 405 & 1712(2). 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, DPWH Abra DEO. The amount equivalent to P150,000,000.00 (inclusive of EAO) for 939.20 linear meter of

ITEM	DESCRIPTION		AMOUNT	PERCENT
NO.			(Total Cost)	Weight (%)
Part A	Facilities for the Engineer	Ρ	167,208.30	0.12%
Part B	Other General Requirements	P	662,626.72	0.47%
Part I-A	Earthworks	ס	2,504,288.08	1.76%
Part I-B	Bank and Slope Protection Works	ס	115,541,235.31	81.26%
Part F	Bridge Construction	ס	8,438,891.71	5.94%
Part G-A	Bank and Slope Protection	ס	14,867,004.95	10.46%
	GRAND TOTAL	P	142,181,255.07	100.00%
Cost per li	Cost per linear meter of Flood = <u>P 142,181,255.07</u>	5.07	= P 151,385.49 /lin. m.	19 /lin. m.

The estimated cost of P151,385.49 per linear meter for the Construction of Flood Control Mitigation Structure <u>142,181,255.07</u> 939.20 lin. m.

Structure Along Major Abra River basin (Phase II), Barangay Caupasan, Danglas, Abra is due to the design requirements as reflected in the approved design plans and DUPA wherein the scope of works involves the provisions of concrete slope protection and steel sheet piles, L =6.0m at 60.0 kg/m, which accounts to 99.42% of the total project cost.

# SCOPE OF WORK FOR PROJECT NO. 6:

due to corrections made on the pay item quantities, quantity of materials components, and materials unit prices. Likewise, the items of work and corresponding quantities were based on the proposed Program of Works (POW) and Detailed Engineering Design Plan duly approved by the District Engineer, DPWH Abra District Engineering Office. Flood Control Structure, as submitted, was reduced to P98,525,851.98 (inclusive of EAO) The amount of P100,000,000.00 (inclusive of EAO) for the 295.20 linear meters Palaquio

1.06%	1,008,118.59	uirements	Other General Requirements	Part B
0.17%	157,512.60	ngineer	Facilities for the Engineer	Part A
PERCENT Weight (%)	AMOUNT (Total Cost)	DESCRIPTION	DESCR	ITEM

Request for Modification of Tv<sup>-1</sup>'e (12) Various Projects Prepared by DPWH Abr- District Engineering Office with the 1 amount of P1,400,000,000.00

Page 7 of 7

P 322,077.68 /lin. m.	81	= <u>P 95,077,331.23</u> 295.20 lin. m.	ter of Flood	Cost per linear me Mitigation Structure
100.00%	P 95,077,331.23	q	<b>GRAND TOTAL</b>	
47.90%	45,541,319.44	tion	Part I-B Bank and Slope Protection	Part I-B
0.48%	458,286.00	ס	Earthworks	Part I-A
45.81%	43,559,247.87	otection	Drainage and Slope Protection Structures	Part G-A
4.58%	4,352,846.72	٩	Bridge Construction	Part F

(4,428 linear meters) which accounts to 45.81%, 18.02%, and 29.88% respectively or an aggregate total of **93.71%** of the total project cost. 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 The estimated cost of **P322,077.68** per linear meter is due to the design requirements as reflected in the approved design considering all items of work from Part A to I-B. The said unit cost per linear meter includes the provision of three (3) major scope of works of the Department. meters), concrete slope protection (1,845 cubic meters) and provision of steel sheet piles project construction such as large volume of hand laid rock embankment (23,034.59 cubic

Office - CAR. (Annex "E"). canvassed prices from three (3) suppliers of Steel Sheet Piles (Type II) and Reinforcing Steel Bar Grade 40, as provided and certified by the District Engineer, Abra District Engineering Please be informed that the resulting cost for Project Nos. 1 to 6 were based on the submitted

æ ATA MVG ALLAN S. BORROMEO, CESO III Director, Bureau of Construction For the Undersecretary's information. UnderSecretary ADOR G. CANLAS, for Technical Services and Information Management Service (IMS) Regional Director KHADAFFY D. TANGGOL, DPWH Cordillera Administrative Region (CAR) District Engineer JOSELITO T. ARAO, DPWH-Abra District Engineering Office Asst. Dir. MIP R

6.1.1 MVG/JML/PPL/RTO/ATA/CBC/JTS/MIP 09222023\_Modification Abra 12 Proj (Evaluated) BOC Ref. No.: 6.1-188-9299 PCD Ref. No.: 6.1.1-348-02 pier

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CENTRAL OFFICE Manila

SVILLETTO EXEDVE

10-14.0 - 12.40 TE E MO. 294-0

August 8, 2023

#### MEMORANDUM

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- 88 DPWH Abra District Engineering Office **District Engineer JOSELITO T. ARAO** Bangued, Abra
- SUBJECT 11.11 Request for Modification of Fifteen (15) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,700,000,000.00

Returned herewith are the fifteen (15) project modification requests which were referred to this Office for review/evaluation by Undersecretary Eugenio R. Pipo, Jr. through a memorandum dated August 2, 2023 (Annex "A"), to wit:

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<b>P00726381LZ</b> – OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra	<b>P00740308LZ</b> – Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure protecting Public Infrastructure/Facilities, Construction of Patagui-Dagslan Flood Control Structure, La Paz, Abra	<b>P00726385LZ</b> – Construction of Flood Control Structure along Abra Major River Basin, Barangay Palaquiao, Bucay Abra	<b>P00726387LZ</b> - Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Abra Major River Basin	<b>P00727253LZ</b> - Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control	<b>P00727254LZ</b> - Construction of Flood Control Structure along Abra Major River Basin, Paga, Malabbaga, La Paz, Abra	PROJECT TITLE
סי	ס	ס	ס	ס	ס	
150,000,000.00	150,000,000.00	150,000,000.00	150,000,000.00	100,000,000.00	100,000,000.00	AMOUNT

Request for Modification of Fifteen (15) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,700,000,000.00

Page 2 of 4

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e on of filigation s Against bra bra bra bra bra bra bra bra	P 1,700,000,000.00	GRAND TOTAL AMOUNT	-
ORT     OR     OR     OR     OR     P     I       P     P     P     P     I     I		PROGRAM, Special Road Fund Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Ilocos Norte Rd K0416 + 400 K0426 + 500	
		15. PO0739550LZ - CONVERGENCE AND SPECIAL, SUPPORT	5
ORT     P     P     Inst       P     P     P     P		Safety Devices Along Abra-Kalinga Rd – K0425 + 500 – K0432 + 600	
DRT     P     P     P		12112	
O VRT V V VRT V VRT V V V V		14. P00739554LZ - CONVERGENCE AND SPECIAL , SUPPORT	14
OR     OR     OR     RT     tion st       P     P     P     P		Safety Devices Along Abra-Ilocos Norte Rd – K0432 + 000 – K0433 + 650	
NRT     P     P     P		PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239. Installation of Road	
OO     P     P       VRT     P     P		13. PO0739553LZ - CONVERGENCE AND SPECIAL , SUPPORT	13
DO     VRT     OO     VRT     tion       P     P     P     P		K0432 + 000	
NRT     P       NRT     P       NRT     P		Charge (MVUC) as per R.A. 11239, Installation of Road	
NRT     P     P       NRT     P     P		PROGRAM, Specia	
ORT P P ORT P		12. PO0739552LZ - CONVERGENCE AND SPECIAL , SUPPORT	12
DO RT P P P		K0450 + 000	
NRT P P		Charge (MVUC) as per R.A. 11239, Installation of Road	1000
NRT P P		_	
RT P P P		11. PO0739555LZ - CONVERGENCE AND SPECIAL ,SUPPORT	Ħ
RT tion P P		Safety Devices Along Abra-Ilocos Norte Rd – K0427 + 000 – K0431 + 100	
RT tion P P		Charge (MVUC) as per R.A. 11239, Installation of Road	
RT tion P P tion P			Ę
tion P P		Construction of Malabbaga Flood Control, La Paz, Abra	5
linst P		Facilities within Major River Basins and Principal River,	
linst P		Maior Floods, Construction/Rehabilitation of Flood Mitigation	5
tion P		P0072686112 - 002: Protect Lives and Properties Against	٥
inst P		Facilities within Major River Basins and Principal River,	
inst P			
		P00726858LZ - 002: Protect Lives and Properties Against	
		Palanujo Flood Control Structure, Bucay, Abra	
		Alleviating Gaps (SIPAG) – Flood Mitigation Structure	
σ	P 100,000,000.00	P00740312LZ – Sustainable Infrastructure Project	7.

Page 3 of 4

Request for Modification of Fifteen (15) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,700,000,000.00

In order to facilitate the review/evaluation of the said request, please comply with the noted

H The station limits in the section details sheets for Dike A and B were inconsistent with the station limits indicated in the cross section sheets for project no. 7;

comments and submit the following lacking documents, to wit:

- $\mathbf{N}$ The quantities for cut and fill in the cross section sheets does not coincide with the values used in the computation of quantities sheet for project no. 7;
- ω The programmed quantities of Steel Sheet Pile in project no. 7 were found inconsistent with the station limits indicated in the approved plans, please rectify;
- 4 Incorporate in Pay Item No. 1712 (2), Concrete Slope Protection, the necessary reinforcing steel bars, weep holes (PVC), filter cloth, and granular filter instead of a separate Pay Item No. 517 (1)b, Drain Pipe for project nos. 1 to 9;
- ŷ Rectify the quantity computation of reinforcing steel bars and steel sheet piles, i.e., ensure that the correct unit weights as indicated in the approved plan were used in the calculations for project nos. 1 to 9;
- <u>б</u> The quantity in pay items A.1.1 (6), A.1.1 (15) and A.1.2 (6) in Itemized Breakdown of Program of Works (POW), were found inconsistent with the Summary of Quantities reflected in the Detailed Engineering Design Plans for project nos. 10 to 12;
- 2 (D.O.) No. 26, Series of 2023, *Revised DPWH Standard Specification for Item 624 – Roadway Lighting*. The concrete footing and reinforcing steel bars will be measured and paid for as provided under item 405 and 404 respectively, as stipulated in the aforementioned D.O. for project nos. 10 & 15; The pay item for Solar LED Streetlight must be in accordance with the Department Order
- တ္ The provided canvassed prices/quotations for the materials were inconsistent with the utilized prices used in the program in pay items for Solar LED Streetlights for project no. 10 & 15 and Double Roller Safety Barrier System for project nos. 10 to 15;
- 9 Provide calculation/derivation for the unit quantity of materials in pay item for Double Roller Safety Barrier System for project nos. 10 to 15;
- 10. Three (3) canvassed prices from various suppliers as supporting documents for the unit cost used for reinforcing steel bars, steel sheet piles, cement, boulders, aggregates, etc., and are to be supported with Certification signed by the head of the Implementing Office;
- 11. Provide computations for utilized dry operated rental rates as per D.O. 63, Series of 2022 with supporting canvasses/price reference for fuel and lubricant;
- 12. Include the calculation/derivation and necessary justifications for construction duration adopted in all projects in accordance with the existing D.O.;

Request for Modification of Fifteen (15) Various Projects Prepared by DPWH Abra District Engineering Office with the total amount of P1,700,000,000.00

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Page 4 of 4

- 13. Duly signed updated Hauling Cost Analysis reflecting the material sources, terrain and road condition and station limits to determine the reasonableness of the unit cost of materials for each pay item involved, if there's any; and
- 14. Provide electronic file copy (compact disc) of the Approved Budget for the Contract following the standard format per D.O. 163, Series of 2015, also known as the *Standard Forms of Program of Works (POW), Approved Budget for the Contract (DUPA), and Detailed Unit Price Analysis (DUPA).*

For the District Engineer's information and appropriate action.

8 ALLAN S. BORROMEO Director, Bureau of Construction Director,

Undersecretary ADOR G. CANLAS, for Information Management and Technical Services Undersecretary EUGENIO R. PIPO, JR., for Regional Operations in CAR, Region I, II, IX, X, XI, XII and XIII Regional Director KHADAFFY D. TANGGOL, DPWH Cordillera Administrative Region (CAR)

6.1.1 JML/MVG/ECS/PPL/ATA/CBC/JTS/MIP 08082023\_Modification Abra 15 Proj (Returned) BOC Ref. No.: 6.1-188-9299 PCD Ref. No.: 6.1.1-348-02



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



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



September 8, 2023

#### MEMORANDUM

- FOR : MANUEL M. BONOAN Secretary
- THRU : EUGENIO R. PIPO, JR. Undersecretary for Regional Operations in CAR, Regions I, II, IX, X, XI, XII and XIII
- SUBJECT ..... **Request for the Modification of the Project: ORGANIZATIONAL OUTCOME 2 : Protect Lives and Properties Against Major Floods -**Basin (Phase II), Barangay Caupasan, Danglas, Abra Mitigation Facilities within Major River Basins and Principal Rivers Flood Management Program - Construction/ Rehabilitation of Flood **Construction of Flood Control Structure along Abra Major River**

in the amount of **One Hundred Fifty Million Pesos ( Php 147,338,088.15** , as indicated We are respectfully forwarding the Memorandum dated September 7, 2023 from District Engineer JOSELITO T. ARAO, Abra District Engineering Office, of the above project

939.200 Lineal meters	1230.745 Lineal meters	Physical Target
	320102105200000	UACS
	Project ID P00726381LZ	Project ID
As Modified	As per GAA/Original	

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

For the consideration of the Secretary.

KHAL D. TANGGOL

CAR.1 TPIL/EFD/JWC/ABM

Regional Director

Website: https://www.dpwh.gov.ph © Tel. Nos.: (074) 444-8838 / 444-6460





Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ABRA



ABRA DISTRICT ENGINEERING OFFICE CORDILLERA ADMINISTRATIVE REGION Bangued, Abra

September 7, 2023

#### MEMORANDUM

- FOR : KHADAFFY D. TANGGOL
- Regional Director
- **THRU** : ANGELITA B. MABITAZAN Chief, Planning and Design Division
- SUBJECT .. **OUTCOME 2 : Protect Lives and Properties Against Major Floods -Flood Management Program - Construction/ Maintenance of Request for the Modification of the Project: ORGANIZATIONAL** of Flood Control Structure along Abra Major River Basin (Phase Flood Mitigation Structures and Drainage Systems, Construction II), Barangay Caupasan, Danglas, Abra

We are respectfully submitting for review and evaluation and transition review and evaluation review and the second second se

**FROM** Project Title: Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra

Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay

Project Title:

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Caupasan, Danglas, Abra

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

Physical Target: CW1 – <mark>939.20</mark> Lineal meters

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

District Englineer JOSELITO T. ARAO

CAR.8.1 MJDJ/CLAR/JTA

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

Chief, Plann F. BOLIENTE

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	13. Certf				-			12. Proje	11. Certi	10. Socic		K	2/19	9. Envir	Ŀ,		8. ROW			7. Certi	$\square$	$\left[\right]$		6. Geo	5. BP 202			NY4			N/A
Checked by:	13. Certificate of Local Government Unit	<ul> <li>d. Materials Source Map</li> </ul>	2. Summary of Quantities	🖂 1. Coverpage	c. Plans	b. DUPA	a. POW	Project Details	Certificate of Reasonableness (for Projects with Changes in Unit Cost )	10. Social Clearance (not within a Declared Herttage/Cuttural Stre-NCCA )	C. CNC/ECC/EIA (EMB)	b. Tree Cutting Permit (If Applicable-EMB)	a. Not Within a "No Build Zone" (MGB )	Environmental Clearances	b. LGU	a. District Engineer	ROW Clearance	b. Construction and Maintenance Division Chiefs	a. District Engineer	Certificate of No Overlapping	c. Plotted in the GIS Map	b. Electronic Copy	a. Hard Copy	Geotagged Photos	02	g. Master Plan (for Flood Control Projects )	f. Project Impact Analysis (for Flood Control Projects)	e. RSM Forms (for Road Slips)	d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges -	c. Bridge Condition (BMS Latest Official Database)	b. Traffic Volume Capacity Ratio (for Widening Projects)

CHECKLIST PROJECT MODIFICATION

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Implementing Office Project Name/Location

.. .. Abra District Engineering Office ORGANIZATIONAL OUTCOME 2 : Protect Lives and Properties Against Major Floods -Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers, Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra

		BL- 170 000 000 00
UACS Code : 320102105200000	UACS Code	P00726381LZ

**Project Allocation** Project ID

**1. Modification Request Form** • •

990 2. AIP

### 3. Certificate of Availability of Funds

- 4. Supporting Data & Analysis
- a. Road Condition (RBIA Latest Official Database)
   b. Traffic Volume Capacity Ratio (for Widening Pro city Ratio (for Widening Proi
- and Flood Control Projects )

54 540 57		Modificatio	Modification Request Form		
		A. 0	GENERAL		
1. REGION		2. DEO Abra District Engineering Office	g Office	3. LEGISLATIVE	DISTRICT
B. (	INAL PROJECT			C. PROPOSED REVISED PROJE	JECT
4. UACS (Unified Accoun 320102105200000	UACS (Unified Account Code Structure as defined in GAA) 20102105200000	d in GAA)			
<b>5. Project ld</b> P00726381LZ					
6. Project Category 002: Protect Lives a	and Properties				
7. Sub-Program (P/A/P)	/P)				
<b>Construction/ Rehabi</b>	litation of Flood Miti	gation Facilities wi	Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers	and Principal Rivers	
8. Operating Unit			18. Operating Unit (Change subject to DBM approval)	nge subject to DBM approv:	al)
Central Office			Central Office	• • •	
Component ID Type of Work	Type of Work		Component ID	Type of Work	
CW1	Construction of Flood Mitigation Structure	lood Mitigation	CW1	Construction of Flood Structure	od Mitigation
EAO	Choose an item.		EAO	Choose an item.	
Click here to enter text.	Choose an item.		Click here to enter text.	Choose an item.	
Click here to enter text.	Choose an item.		Click here to enter text.	Choose an item.	
10. PROJECT DESCRIPTION (as recorded in GAA) Construction of Flood Control Structure along Abra Major River Basin (Phase II), Barangay Caupasan, Danglas, Abra	<b>PTION</b> (as recorded in GA d Control Structure : II), Barangay Caupai	.A) along Abra Major san, Danglas,	20. PROJECT DESCRIPTION (of the revised project) Construction of Flood Control Structure along Abra M Basin (Phase II), Barangay Caupasan, Danglas, Abra	<b>ON</b> (of the revised project Control Structure alor ngay Caupasan, Dang	) 1g Abra Major River Jas, Abra
<b>11. ALLOTMENT (P'000)</b> (as recorded in GAA) 150000	<b>00)</b> (as recorded in GAA)		21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 150000		22. CAF (To be obtained from Financial Management office) □YES
12. PHYSICAL TARGET (Enter Details for all Components below)	T (Enter Details for all Cor	nponents below)	23. PHYSICAL TARGET (Enter Details for all Components below)	Enter Details for all Compo	nents below)
Component ID	Target	Target Unit	Component ID	Target	Target Unit
CW1	1230.745	Lineal Meters (lm)	CW1	939.20	Lineal Meters (Im)
EAO	Click here to enter text.	Choose an item.	EAO	Click here to enter text.	Choose an item.
Click here to enter text.	Click here to enter text.	Choose an item.	Click here to enter text.	Click here to enter text.	Choose an item.
13. UNIT COST (Enter Details for all Components below)	Details for all Components	s below)	24. UNIT COST (Enter Details for all Components below)	ails for all Components bel	ow)
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)	Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)
CW1	144750	117.61169	CW1	142181.25506	151.38549
EAO	5250	Click here to enter text.	EAO	5156.83309	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	PHYSICAL RESERVE	2661,91185	Click here to enter text.

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Modification Form Version 01-2023

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Click here to enter text. Click here to enter text.	enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text. Click here to enter text.	enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014)	Must be defi	ned in strict		ATION (Must be defined plete "ANNEX A" for	in strict accordance with National Road
Click here to enter text.			Dick here to enter text.		
Start X 120.663957	End X	120.663309	Start X 120.663957	End X	120.663309
Start Y 17.687606	End Y	17.687061	Start Y 17.687606	End Y	17.687061
<b>15. ROAD CLASSIFICATION</b> (if applicable) Choose an item.	olicable)	2	26. ROAD CLASSIFICATION (if applicable) Choose an item.	ON (if applicable)	
<b>16. IMPLEMENTING OFFICE</b> (Record the Implementing Office of the original project) Abra District Engineering Office	ord the Imple Ce	ementing Office of the	<b>27. IMPLEMENTING OFFICE</b> (Record the Implementing Office of the proposed revised project) Abra District Engineering Office	ICE (Record the Impleme ing Office	nting Office of the
<b>17. PROJECT IMPLEMENTATION PLAN (PIP)</b>	I PLAN (PII	9	28. PROJECT IMPLEMENTATION PLAN (PIP)	ITATION PLAN (PIP)	
Planned Start Date October 2, 2023	Planned End Date July 23, 2024	ind Date 024	Planned Start Date October 2, 2023	Planned End Date July 23, 2024	Date
			29. OVERLAP?	30. UNDER WARRANTY? ⊠ NO ☐ YES	/ARRANTY? □ YES
		D. ATTACHMEN	D. ATTACHMENTS & JUSTIFICATIONS		
31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects)	ATTACHE	D? (Far Fload Control P	rojects)		
32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points)	Explain in de	tail in Bullet point form	nat; minimum of 2 points}		
<ul> <li>The increase in uni concrete dike type cost. The steel shee proposed mitigatio</li> <li>Also, the huge/mas</li> </ul>	iit cost wh e of flood j eet piles ar on and en ussive rock	iich resulted to the nitigation structur e necessary to prev sure over-all stabili . embankment cons	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 80.12% 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 ensure over-all stability of the project area. Also, the huge/massive rock embankment consisting of 10.09% of the project cost contributed to the high unit cost of the project.	target is due to the u nsisting of 80.12% o e failure along the for roject cost contribut	sage of a reinforced f the project direct undation of the ed to the high unit
• The derived unit co (POW) with reference September 22, 2023.	cost is bas ence to th 23.	ed on the approve e evaluation made	The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of Works (POW) with reference to the evaluation made by the Bureau of Construction as per memorandum dated September 22, 2023.	alysis (DUPA) and P uction as per memora	rogram of Works ndum dated
• See attached Cros Reasonableness o	s-Section f Cost Est	Drawing of the Pre imates signed by t	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.	istrict Engineer, and	the Certificate of
33. PHOTOS SUBMITTED					

Modification Form Version 01-2023

34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED □NO ⊠YES

	JA 35. P	35. PREPARED BY:	
Name:	MELGIE SES D. JAVIER	Position:	ENGINEER II
Office:	Abra District Engineering Office	Date:	Click here to enter a date.
36. REVIEWE	36. REVIEWED BY DISTRICT OFFICE (If Required)		38. REVEWED BY REGIONAL OFFICE
Name:	CHONA LUNA A. RAMOS	Name:	ANGELITA DMABITAZAN
Position:	Chief, Planning and Design Section	Position:	Chief, Planning and Design Division
Date:	)	Date:	
<b>37. RECOMMEN</b>	37. RECOMMENDED BY DISTRIC OFFICE (If Required)		39. RECOMMINDED BY REGIONAL OFFICE
Name:	JOSELITO ARAO	Name:	KHADA PE
Position:	District Wagineer	Position:	Regional Director
Date:		Date:	

### **Modification Request Form**

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