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#### **Programming Division Evaluation Sheet**

0	Remarks:
	Reviewed by Planning Service  Recommended for Approval
Date:	FOR SECRETARY MANUEL M. BONOAN OR
	ACTION SLIP
CONSTANTE, A. LLANES, JR., CESO/III Assistant Secretary Planning Service	٥
a/11/21/	By:
	E.1 Undersecretary for Operations
f Allotment under	E. Approving Authority as per D.O. 13, s. 2023, Guidelines on Modification of Allotment under the GAA
t of <b>Php2,183,312.25</b>	from Php150,000,000.00 to Php147,816,687.75 and an excess amount of Php2,183,312.25
	D.2 Additional Project Component
	8'8
2	97.79 % increase in unit cost
5	2
	released thru GAAAO
Amount: 150,000,000	C.1 for issuance of SARO (□Released □Unreleased)
	3.2
	B.1 ALLOWED as per the GAA Provisions
	A.2.5.6 Movement of Funds between Components
	A.2.5.4 Change in Component Amount  A.2.5.4 Addition of Component (incl. EXC Component)
17620	A.2.5.1 Change in Project Component/s Details  A.2.5.1 Change in Targets
Control No. 13-1836	
8 × × × × × × × × × × × × × × × × × × ×	
NOV 0 6 7922	A.2.2 (Change in Location (for non-existent locations only)
	PROJEC
	A.1.2
	A.1.1
	A. TYPE OF REQUEST  A.1 Change in Implementing Office/Operating Unit due to
10,	Implementing Office: Abra District Engineering Office
Appropriation: 150,000.000	Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra
Project ID: <b>P00740308LZ</b>	Name of Project:



# Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYSYS

#### **OFFICE OF THE SECRETARY**



Bonifacio Drive, Port Area, Manila

October 5, 2023

#### MEMORANDUM

FOR --MANUEL M. BONOAN

Secretary

This Department

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; refers the memorandum dated œ September 2023 of DPWH CAR Regional

						Justification:
1	P150,000,000.00	Total:		P150,000,000.00	Total:	
	₱2,183,312.25	<b>O</b> Excess:	feter of c			
	P 5,173,584.06	Ţ	EAO	₱5,250,000.00	ľ	EAO
	P142,643,103.44	P 232,620.85/ l.m.	CW1- Construction of Flood Mitigation Structure/ <b>613.20</b> J.m.	P144,750,000.00	₱ 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
	itrol Structure, La	-Dagsian Flood Con	Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra	trol Structure, La	-Dagsian Flood Con	Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra
	ng Gaps (SIPAG) -	ıre Project Alleviatir ıre protecting cilities,	Sustainable Infrastructure Project Alleviating Flood Mitigation Structure protecting PublicInfrastructure/Facilities,	ng Gaps (SIPAG) -	re Project Alleviatir re protecting cilities,	Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting PublicInfrastructure/Facilities,
					1298000 08LZ	Project ID:P00740308LZ
			Project Description	Project D		
		As Modified		7	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 57.77% 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 mitigation and ensure over-all stability of the project area.

  The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 33.28% and 4.34% of the
- The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 33.28% and 4.34% 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.

Ab-c0-202310-01630 Website: https://www.dpwh.gov.ph Tel. No(s).: 5304-3000 / (02) 165-02



UACS No.: 300219101298000 Project ID: P00740308LZ

Page 2 of 2

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

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

ECOMMENDING APPROVAL:

Undersecretary for Planning MARIA CATALINA E. CABRAL, Ph.D., CESO I

and Public-Private Partnership Services

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

APPROVED/BESAPPROVES:

Secretar

MANUEL M. BONOAN

2.3 mksa/MLS/AVSRPBG/ERP

Department of Public Works and Highways
Office of the Secretary WIN3E03210

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

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# Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYSYS

### **OFFICE OF THE SECRETARY**

Bonifacio Drive, Port Area, Manila



October 5, 2023

#### MEMORANDUM

FOR MANUEL M. BONOAN

Secretary

This Department

**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 Q the memorandum dated 8 September 2023 of DPWH CAR Regional

					Justification:
P150,000,000.00	Total:		<b>P</b> 150,000,000.00	Total:	
₱2,183,312.25	Excess:				
₱ 5,173,584.06	1	EAO	₱5,250,000.00	1	EAO
P142,643,103.44	₱ <b>232,620.85</b> / l.m.	CW1- Construction of Flood Mitigation Structure/ <b>613.20</b> 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
trol Structure, La	-Dagsian Flood Cont	Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra	trol Structure, La	Dagsian Flood Con	Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra
ig Gaps (SIPAG) -	ire Project Alleviatin ire protecting silities,	Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting PublicInfrastructure/Facilities,	ig Gaps (SIPAG) -	re Project Alleviatir re protecting illities,	Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure protecting PublicInfrastructure/Facilities,
				1298000 18LZ	Project ID:P00740308LZ
		Project Description	Project D		
	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 57.77% 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 mitigation and ensure over-all stability of the project area.

- The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 33.28% and 4.34% 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



UACS No.: 300219101298000 Project ID: P00740308LZ

Page 2 of 2

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

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/SIGAPPROVES:

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Undersegre in CARCARE אנג אויס, אג. Aetary for Regional Operations Regions I, II, IX, X, XI, XII, and XIII

2.3 mksa/MLS/AVSRPBG/ERP



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

- total amount of P 1,400,000,000.00 Prepared by DPWH Abra District Engineering Office with the Request for Modification of Twelve (12) **Various Projects**
- H Major P00727254LZ - 002: Protect Lives and Properties Against River, Construction of Bangbangcag Flood Control, Bucay, Mitigation Facilities within Major River Basins and Principal Floods, Construction/Rehabilitation 옃
- Ņ Major River Basin, Barangay San Jose Sur, Manabo, Abra River, Construction of Flood Control Structure along Abra Mitigation Facilities within Major River Basins and Principal P00726387LZ - 002: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation
- ω Major Major River Basin, Barangay Palaquio, Bucay, Abra Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Abra P00726385LZ - 002: Protect Lives and Properties Against Floods, Construction/Rehabilitation of. Flood
- 4 Patagui-Dagsian Flood Control Structure, La Paz, Abra Alleviating Gaps (SIPAG) — Flood Mitig Protecting Public Infrastructure/Facilities, P00740308LZ (SIPAG) - Flood Mitigation Sustainable Infrastructure Construction of Structure Project
- Ģ Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Major Abra River Basin (Phase II), Barangay Caupasan, Danglas, P00726381LZ - 002: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood
- ġ protecting Public Infrastructure/Facilities, Construction of Palaquio Flood Control Structure, Bucay, Abra Alleviating P00740312LZ Gaps (SIPAG) -Sustainable Flood Mitigation Infrastructure Structure Project

- 7. 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 – K0427 + 023 – K0430 P00739551LZ -CONVERGENCE AND SPECIAL SUPPORT
- ထ္ 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 + P00739555LZ CONVERGENCE AND SPECIAL SUPPORT
- 9 Devices Along Abra-Ilocos Norte Rd - K0431 + 104 - K0432 PROGRAM, Special Road Fund — Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety P00739552LZ CONVERGENCE AND SPECIAL SUPPORT
- 10. 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 — K0432 + 058 — K0433 P00739553LZ + 460 CONVERGENCE AND SPECIAL SUPPORT
- 11. 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
- 12. 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 CONVERGENCE AND SPECIAL SUPPORT

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 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 Engineering Office,

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### SCOPE OF WORK OF PROJECT NO. 1:

The amount of **P100,000,000.00** (inclusive of EAO) for the **313.20 linear meter** Bangbangcag Flood Control Structure as submitted was reduced to **P98,121,072.74** (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.

100.00%	94,686,835.19	ס	GRAND TOTAL	
50.48%	47,802,204.46	ק	Bank and Slope Protection	Part I-B
0.52%	489,564.83	ס	Earthworks	Part I-A
43.88%	41,549,624.59	ס	Drainage and Slope Protection Structures	Part G-A
3.77%	3,571,046.34	٦	Bridge Construction	Part F
1.18%	1,116,882.37	ס	Other General Requirements	Part B
0.17%	157,512.60	ס	Facilities for the Engineer	Part A
PERCENT Weight (%)	AMOUNT (Total Cost)		DESCRIPTION	NO.

Cost per linear meter of Flood = Mitigation Structure

P 94,686,835.19 313.20 lin. m.

H

P 302,320.67 /lin. m.

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. The cost per linear meter of P302,320.67 as modified is due to the design requirements as

### SCOPE OF WORK OF PROJECT NO. 2:

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. The amount of P150,000,000.00 (inclusive of EAO) for the 494.00 linear meter Flood

Page **4** of **7** 

M         DESCRIPTION         AMOUNT (Total Cost)         PERCENT Weight (%)           A         Facilities for the Engineer         P         167,208.30         0.12%           B         Other General Requirements         P         1,486,100.39         1.05%           Bridge Construction         P         6,942,406.94         4.89%           Drainage and Slope Protection         P         49,150,369.05         34.63%           A         Earthworks         P         849,199.31         0.60%           B         Bank and Slope Protection         P         83,345,209.36         58.72%           GRAND TOTAL         P         141,940,493.36         100.00%					
DESCRIPTIONAMOUNT (Total Cost)PER (Total Cost)PER (Total Cost)Facilities for the EngineerP 167,208.30WeigOther General RequirementsP 1,486,100.39P 1,486,100.39Bridge ConstructionP 6,942,406.94P 6,942,406.94Drainage and Slope ProtectionP 49,150,369.05P 849,150,369.05EarthworksP 83,345,209.36P 83,345,209.36	100.00%	141,940,493.36	ס־	GRAND TOTAL	
DESCRIPTIONAMOUNT (Total Cost)PERFacilities for the EngineerP167,208.30WeigOther General RequirementsP1,486,100.39Bridge ConstructionP6,942,406.94Drainage and Slope Protection StructuresP49,150,369.05PEarthworksP849,199.31	58.72%	83,345,209.36	٦	Bank and Slope Protection	Part I-B
DESCRIPTIONAMOUNT (Total Cost)PERFacilities for the EngineerP 167,208.30WeigOther General RequirementsP 1,486,100.39Bridge ConstructionP 6,942,406.94Drainage and Slope ProtectionP 49,150,369.05	0.60%	849,199.31	ט	Earthworks	Part I-A
PERCEIPTION PERCEIPTION PERCEIPTION PERCEIPTION PAMOUNT (Total Cost) Weigh Other General Requirements P 1,486,100.39 Bridge Construction P 6,942,406.94	34.63%	49,150,369.05	ס	Drainage and Slope Protection Structures	Part G-A
PERCEIPTION  PERCEIPTION  PAMOUNT (Total Cost)  Pacilities for the Engineer  Other General Requirements  Page 1,486,100.39	4.89%	6,942,406.94	ס	Bridge Construction	Part F
PERCEIPTION  PERCEIPTION  Facilities for the Engineer  P 167,208.30	1.05%	1,486,100.39	ס	Other General Requirements	Part B
DESCRIPTION AMOUNT (Total Cost)	0.12%	167,208.30	P	Facilities for the Engineer	Part A
	PERCENT Weight (%)	AMOUNT (Total Cost)		DESCRIPTION	NO.

Cost per linear meter of Flood Mitigation Structure

P 141,940,493.36 494.00 lin. m.

= P 287,328.93 /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	٦	167,208,30	0.12%
Part B	Other General Requirements	ס	1,528,743.47	1.07%
Part I-A	Earthworks	D	1,129,594.88	0.79%
Part I-B	Part I-B   Bank and Slope Protection Works	Р	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

Page **5** of **7** 

100.00%	142,842,255.02	Р	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	ď	Bridge Construction	Part F

Cost per linear meter of Flood = Mitigation Structure

P 142,842,255.02 460.00 lin. m.

11

P 310,526.64 /lin. m.

The estimated cost of **P310,526.64 per** linear meter for the Construction of Flood Control 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 kg/m, which accounts to 98.81% of the total project cost. involves the provisions of concrete slope protection and steel sheet piles, L=6.0m at 60.0

### SCOPE OF WORK OF PROJECT NO. 4:

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 **613.20 linear meter** of protection dike as submitted were reduced to **P147,816,687.50** (inclusive of EAO) due to

100.00%	P 142,643,103.44	P	GRAND TOTAL	
34.49%	49,192,599.99	٥	Bank and Slope Protection	Part G-A
4.50%	6,413,898.05	P	Bridge Construction	Part F
59.07%	84,257,346.84	ס	Bank and Slope Protection Works	Part I-B
0.80%	1,137,137.21	٥	Earthworks	Part I-A
1.03%	1,474,913.04	P	Other General Requirements	Part B
0.12%	167,208.30	P	Facilities for the Engineer	Part A
PERCENT Weight (%)	AMOUNT (Total Cost)		DESCRIPTION	NO.

Cost per linear meter of Flood = Mitigation Structure

P 142,643,103.44

= P 232,620.85 /lin. m.

613.20 lin. m.

The estimated cost of **P232,620.85** per linear meter for the Construction of Patagui-Dagsian 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 concrete slope protection and steel sheet piles, L = 6.0m at 60.0 kg/m, which accounts to **98.85%** of the total project cost.

### SCOPE OF WORK OF PROJECT NO. 5:

The amount equivalent to **P150,000,000.00** (inclusive of EAO) for **939.20 linear meter** of 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.

100.00%	P 142,181,255.07	P	GRAND TOTAL	
10.46%	14,867,004.95	ס	Part G-A Bank and Slope Protection	Part G-A
5.94%	8,438,891.71	٦	Bridge Construction	Part F
81.26%	115,541,235.31	Р	Bank and Slope Protection Works	Part I-B
1.76%	2,504,288.08	P	Earthworks	Part I-A
0.47%	662,626.72	ס	Other General Requirements	Part B
0.12%	167,208.30	P	Facilities for the Engineer	Part A
Weight (%)	(Total Cost)			NO.
PERCENT	AMOUNT		DESCRIPTION	ITEM

Cost per linear meter of Flood = Mitigation Structure

P 142,181,255.07 939.20 lin. m.

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P 151,385.49 /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. The estimated cost of P151,385.49 per linear meter for the Construction of Flood Control

## SCOPE OF WORK FOR PROJECT NO. 6:

The amount of **P100,000,000.00** (inclusive of EAO) for the **295.20 linear meters** Palaquio Flood Control Structure, as submitted, was reduced to **P98,525,851.98** (inclusive of EAO) 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.

ITEM	DESCRIPTION		AMOUNT	PERCENT
NO.			(Total Cost)	Weight (%)
Part A	Facilities for the Engineer	ס־	157,512.60	0.17%
Part B	Other General Requirements	Р	1,008,118.59	1.06%

Page 7 of 7

100.00%	P 95,077,331.23	ס	GRAND TOTAL	
47.90%	45,541,319.44	٥	Part I-B Bank and Slope Protection	Part I-B
0.48%	458,286.00	Р	Part I-A Earthworks	Part I-A
45.81%	43,559,247.87	ס־	Drainage and Slope Protection Structures	Part G-A
4.58%	4,352,846.72	ס	Bridge Construction	Part F

Mitigation Structure Cost per linear meter of Flood 11

P 95,077,331.23 295.20 lin. m.

> П P 322,077.68 /lin. m.

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 project construction such as large volume of hand laid rock embankment (23,034.59 cubic meters), concrete slope protection (1,845 cubic meters) and provision of steel sheet piles (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 Department.

Office - CAR. (Annex "E"). Please be informed that the resulting cost for Project Nos. 1 to 6 were based on the submitted 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

For the Undersecretary's information.

#### ALLAN S. BORROMEO, CESO III Director, Bureau of Construction

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

OIC JTS CBC ATA RTO PPL MVG JML

Parcy

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



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



August 8, 2023

MEMORANDUM

District Engineer JOSELITO T. ARAO

70

DPWH Abra District Engineering Office

Bangued, Abra

SUBJECT 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:

	PROJECT TITLE		AMOUNT
i.	<b>P00727254LZ</b> - Construction of Flood Control Structure along Abra Major River Basin, Paga, Malabbaga, La Paz, Abra	ס	100,000,000.00
5	<b>P00727253LZ</b> - Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control	٦	100,000,000.00
·ω	<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	٥	150,000,000.00
4.	<b>P00726385LZ</b> – Construction of Flood Control Structure along Abra Major River Basin, Barangay Palaquiao, Bucay Abra	70	150,000,000.00
ណុ	<b>P00740308LZ</b> – Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure protecting Public Infrastructure/Facilities, Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra	Р	150,000,000.00
6	<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	יסי	150,000,000.00

Page 2 of 4

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GRAND TOTAL AMOUNT	PROGRAM, Special Road Fund – Motor Vehicle User's 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	P00739554LZ - CONVERGENCE AND SPECIAL ,SUPPORT PROGRAM, Special Road Fund – Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Kalinga Rd – K0425 + 500 – K0432 + 600	<b>P00739553LZ</b> - CONVERGENCE AND SPECIAL ,SUPPORT 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 – K0432 + 000 – K0433 + 650	P00739552LZ - CONVERGENCE AND SPECIAL ,SUPPORT 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 – K0431 + 100 – K0432 + 000	<b>P00739555LZ</b> - CONVERGENCE AND SPECIAL ,SUPPORT 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 – K0432 + 600 – K0450 + 000	P00739551LZ - CONVERGENCE AND SPECIAL ,SUPPORT 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 - K0427 + 000 - K0431 + 100	<b>P00726861LZ</b> – OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Malabbaga Flood Control, La Paz, Abra	<b>P00726858LZ</b> – OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Buli Flood Control, La Paz, Abra	<b>P00740312LZ</b> – Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure protecting Public Infrastructure/facilities, Construction of Palaquio Flood Control Structure, Bucay, Abra
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1,700,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00

In order to facilitate the review/evaluation of the said request, please comply with the noted comments and submit the following lacking documents, to wit:

- 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;
- '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;
- 'n 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;
- 9 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;
- 7 The pay item for Solar LED Streetlight must be in accordance with the Department Order (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 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;
- Include the calculation/derivation and necessary justifications for construction duration adopted in all projects in accordance with the existing D.O.;

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.

ALLAN'S HORROMEO

Director, Bureau of Construction

R Undersdoretary ADOR G. CANLAS, for Information Management and Technical Services
Undersdoretary 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: CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure Projects

Alleviating Gaps (SIPAG) - SIPAG - Flood Mitigation Structures protecting Public Infrastructures/Facilities - Construction of Infrastructures/Facilities Construction

Patagui-Dagsian Flood Control Structure, La Paz, Abra

We are respectfully forwarding the Memorandum dated September 7, 2023 from District Engineer JOSELITO T. ARAO, Abra District Engineering Office. of the above project in the amount of **One Hundred Fifty Million Pesos (Php 147,816,687.50)** as indicated below:

	As per GAA/Original	As Modified
Project ID	Project ID P00740308LZ	
UACS	300219101298000	
Physical Target	<b>1,230.745</b> Lineal meters	613.400 Lineal meters

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

For the consideration of the Secretary.

Regional Director ,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



September 7, 2023

MEMORANDUM

FOR : KHADAFFY D. TANGGOL

Regional Director

THE L : ANGELITA B. MABITAZAN

Chief, Planning and Design Division

SUBJECT Request for the Modification of the Project: CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure

Patagui-Dagsian Flood Control Structure, La Paz, Abra protecting Public Infrastructures/Facilities, Construction of **Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures** 

We are respectfully submitting for review and evaluation Pesos (Php 147,816,687.50) as Modification, amounting to One Hundred Fifty Million Pesos (Php 147,816,687.50) as indicated halow:

Project Title:

Project Title:

Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra

Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra

**1230.745** Lineal meters Physical Target:

CW1 - **613.40** Lineal meters Physical Target:

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

JOSELITO T. ARAO

District Englineer

CAR.8.1 MJDJ/CLAR/JTA

#### CHECKLIST PROJECT MODIFICATION

 10. Social Clearance (not within a Declared Heritage/Cultural Site-NCCA)
 11. Certificate of Reasonableness (for Projects with Changes in Unit Cost) Project Allocation Project ID Implementing Office
Project Name/Location 11. Certificate of Reasonableness (for Projects with Changes in Unit Cost) 12. Project Details 9. Environmental Clearances 2. AIP 8. ROW Clearance 7. Certificate of No Overlapping 5. BP 202 4. Supporting Data & Analysis 3. Certificate of Availability of Funds Modification Request Form d. Materials Source Map K Ş Geotagged Photos V/ b. Traffic Volume Capacity Ratio (for Widening Projects) b. DUPA a. POW b. LGU b. Tree Cutting Permit (If Applicable-EMB) c. CNC/ECC/EIA (EMB) a. Not Within a "No Build Zone" (MGB) a. District Engineer b. Construction and Maintenance Division Chiefs c. Plotted in the GIS Map c. Plans a. District Engineer b. Electronic Copy 9. Master Plan (for Flood Control Projects) a. Hard Copy a. Road Condition (RBIA Latest Official Database) d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges and Flood Control Projects) c. Bridge Condition (BMS Latest Official Database) Project Impact Analysis (for Flood Control Projects) RSM Forms (for Road Slips)  $olimits_{oldsymbol{A}}
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oli$ 1. Coverpage 2. Summary of Quantities .. .. Php 150,000,000.00 Abra District Engineering Office

CONVERGENCE AND SPECIAL SUPPORT PROGRAM - Sustainable Infrastructure Projects
Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public
Infrastructures/Facilities , Construction of Patagui-Dagsian Flood Control Structure, La P00740308LZ Paz, Abra **UACS** Code 300219101298000

Checked by:

13. Certificate of Local Government Unit

ERLINDATE. DOLIENTE
Engineer III
Chief, Planning Section

#### **Modification Request Form**

117 (116)	13. UNIT COST (Enter Details for all Components below)  24. UNIT COST (Enter Details for all Components below)	Click here to enter text. Click here to enter text. Choose an item. Click here to enter text. Choose an item.	${ m EAO}$ Click here to enter text. Choose an item. ${ m EAO}$	CW1 1230.745 Lineal Meters CW1 613.20 Lineal Meters (lm)	Component ID Target Target Unit Component ID Target Target Unit	12. PHYSICAL TARGET (Enter Details for all Components below) 23. PHYSICAL TARGET (Enter Details for all Components below)	11. ALLOTMENT (P'000) (as recorded in GAA)  (P'000) (Equal to, or lower than GAA allotment)  150000  21. REVISED ESTIMATED COST (To be obtained from Financial Management office)  150000  150000	<ul> <li>10. PROJECT DESCRIPTION (as recorded in GAA)</li> <li>20. PROJECT DESCRIPTION (of the revised project)</li> <li>Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra</li> </ul>	Click here to enter text. Choose an item.	Click here to enter text. Choose an item.	EAO Choose an item. EAO Choose an item.	CW1 Construction of Flood Mitigation CW1 Construction of Flood Mitigation Structure	Component ID Type of Work Component ID Type of Work	9. Type of Work (Enter Details for all Components below)  19. Type of Work (Enter Details for all Components below)	8. Operating Unit (Change subject to DBM approval)  Central Office  Central Office	7. Sub-Program (P/A/P) Sustainable Infrastructure Projects Alleviating Gaps (SIPAG) - Flood Mitigation Structures protecting Public Infrastructures/Facilities	Convergence and Special Support Program	6. Project Category	5. Project Id P00740308LZ	4. UACS (Unified Account Code Structure as defined in GAA) 300219101298000	B. ORIGINAL PROJECT  C. PROPOSED REVISED PROJECT	1. REGION       2. DEO       3. LEGISLATIVE DISTRICT         Cordillera Administrative Region       Abra District Engineering Office       Abra Lone District	A.	
44.30° 111	Component ID Component Cost Target Unit Cost Component ID Component Cost Target Unit Cost (P'000) (P'000/Target Unit) (P'000) (P'000/Target Unit)	(Enter Details for all Components below)  Component Cost Target Unit Cost (P'000) (P'000/Target Unit)  Center Details for all Components below)  Component ID Component Cost (P'000) (P'000) (P'000) (P'000)	Click here to enter text. Choose an item. Click here to enter text. Click here to enter text. Choose an item.  Choose an item. Click here to enter text. Click here to enter text. Choose an item. Choose an item. Click here to enter text. Choose an item. C	Click here to enter text. Choose an item. EAO Click here to enter text. Choose an item.  NIT COST (Enter Details for all Components below)  Component Cost (P'000)  Choose an item. EAO Click here to enter text. Choose an item.	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1447=0 117 C1160 CWT		COST (Enter Details for all Components below)	Click here to enter text. Choose an item. Click here to enter text. Click here to enter text. Click here to enter text.	Click here to enter text. Choose an item. EAO Click here to enter text.	I 1230.745  Lineal Moters (lm)  Click here to enter text. Choose an item. EAO  Click here to enter text. Choose an item. Click here to enter text. Choose an item. Click here to enter text.	Soment ID     Target     Target Unit     Component ID     Target       1230.745     Lineal Meters (Im)     CW1     613.20       Click here to enter text.     Choose an item.     EAO     Click here to enter text.       VIT COST (Enter Details for all Components below)     24. UNIT COST (Enter Details for all Components below)	HYSICAL TARGET (Enter Details for all Components below)  Target  Target Unit  Component ID  Target  Lineal Meters (Im)  Click here to enter text.	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#### **Modification Request Form**

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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.
14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014)  Click here to enter text.	25. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014. Also complete "ANNEX A" for National Road in rejects under OO-10	ATION (Must be defined plete "ANNEX A" for	in strict accordance with National Road
	Click here to enter text.		
<b>Start X</b> 120.677 <b>End X</b> 120.671	<b>Start X</b> 120.677	End X	120.671
<b>Start Y</b> 17.6618 <b>End Y</b> 17.6605	<b>Start Y</b> 17.6618	End Y	17.6605
15. ROAD CLASSIFICATION (if applicable)	26. ROAD CLASSIFICATION (if applicable)	N (if applicable)	
Choose an item.	Choose an item.		
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Abra District Engineering Office	the 27. IMPLEMENTING OFFICE (Record the Implementin proposed revised project)  Abra District Engineering Office	ICE (Record the Implement of the Impleme	nting Office of the
17. PROJECT IMPLEMENTATION PLAN (PIP)	28. PROJECT IMPLEMENTATION PLAN (PIP)	TATION PLAN (PIP)	
Planned Start Date Planned End Date October 9, 2023 Tuly 23, 2024	Planned Start Date	Planned End Date	<b>Date</b>
	29. OVERLAP?	30. UNDER WARRANTY?	ARRANTY?
D. ATTACHN	ATTACHMENTS & JUSTIFICATIONS		
■ NO	rol Projects)		
32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points)	format; minimum of 2 points)		
<ul> <li>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 57.77% 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.</li> <li>Also, the huge/massive rock embankment consisting of 33.28% of the project cost contributed to the high unit cost of the project.</li> <li>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.</li> <li>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.</li> </ul>	the decrease in the physical taure with steel sheet piles coprevent scouring and possible bility of the project area. Sonsisting of 33.28% of the proved Detailed Unit Price Anade by the Bureau of Construed by the Bureau of Construence by the Regional Director.	arget is due to the usisiting of 57.77% of failure along the fouroject cost contribute object (DUPA) and Protion as per memoran strict Engineer, and t	age of a reinforced the project direct ndation of the d to the high unit ogram of Works idum dated he Certificate of
ютоѕ sub			
□NO ⊠YES			
34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED  □NO ⊠YES	A SUBMITTED		

#### **Modification Request Form**

	35. PI	35. PREPARED BY:	
Name:	MELGIE S D. JAVIER	Position:	ENGINEER II
Office:	Abra District Engineering Office	Date:	Click here to enter a date.
36. REVIE	36. REVIEWED BY DISTRICT OFFICE (If Required)		38. REVIEWED BY REGIONAL OFFICE
Name:	CHONA LUIS A RAMOS	Name:	ANGELITATIONABITAZAN
Position:	Chief, Planning and Design Section	Position:	Chief, Planning and Design Division
Date:	,	Date:	
37. RECOMN	37. RECOMMENDED BY DISTRICT OFFICE (If Required)		39. RECOMMENDED BY REGIONAL OFFICE
Name:	JOSEIATO NRAO	Name:	KHADAFA D. TANGGOL
Position:	District Ungineer	Position:	Regional Director
Date:		Date:	