



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

June 22, 2023

**MEMORANDUM**


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

**ATTENTION :** **ALBERTO N. GAHID**  
District Engineer  
Mountain Province First District Engineering Office  
Bontoc, Mountain Province

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

1. OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers Construction of Caluttit-Pakkil Flood Control, Sta. **28 + 242 - Sta. 28 + 440** (LS) along Chico River, Bontoc, Mountain Province - - - **P80,000,000.00**

Please be reminded that all approved modifications **shall be posted in the DPWH website within five (5) days** from its approval. Failure to comply with this requirement shall be dealt with accordingly.

  
**EUGENIO R. PIPO, JR.**  
Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

2.3 mksa/AVS/RPBG/ERP



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

June 22, 2023

**MEMORANDUM**

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

**ATTENTION :** **ALBERTO N. GAHID**  
District Engineer  
Mountain Province First District Engineering Office  
Bontoc, Mountain Province

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

1. OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers Construction of Caluttit-Pakkil Flood Control, Sta. **28 + 242 - Sta. 28 + 440** (LS) along Chico River, Bontoc, Mountain Province - - - **₱80,000,000.00**

Please be reminded that all approved modifications **shall be posted in the DPWH website within five (5) days** from its approval. Failure to comply with this requirement shall be dealt with accordingly.

**EUGENIO R. PIPO, JR.**  
Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

2.3 mksa/AVS/RPBG/ERP  
8.



### Programming Division Evaluation Sheet

Name of Project:

Project ID: **P00726414LZ**

Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 350 - Sta. 28 + 850 (LS) along Chico River, Bontoc, Mountain Province

Appropriation: 80,000,000

Implementing Office: Mountain Province 1st District Engineering Office

Date: 04/19/2023

#### A. TYPE OF REQUEST

##### A.1 ☐ Change in Implementing Office/Operating Unit due to

- A.1.1 ☐ Geographical Jurisdiction  
A.1.2 ☐ Approval of Authority to Bid/Implement

##### A.2 ☒ PROJECT MODIFICATION/ADJUSTMENTS

- 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 \_\_\_\_\_ to \_\_\_\_\_

3

- 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  
A.2.5.6 ☒ Movement of Funds between Components

#### B. EVALUATION

- 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

- C.1 ☐ for issuance of SARO (☐Released ☐Unreleased)  
C.2 ☒ released thru GAAAO

Amount: 80,000,000

#### D. IMPACT:

- D.1 Condition/s: \_\_\_\_\_ % decrease in unit cost  
\_\_\_\_\_ 151.76 % Increase in unit cost  
\_\_\_\_\_ 60.40 % decrease in physical target  
\_\_\_\_\_ % increase in physical target

D.2 ☐ Additional Project ComponentD.3 ☒ Certificate of Cost Reasonableness by RDD.4 Remarks: The total Amount was reduced to **Php 79,757,000** (excess amount of Php 243,000 per review/evaluation of Bureau of Construction, through attached memorandum dated 26 April 2023.

#### E. Approving Authority as per D.O. 13, s. 2023, Guidelines on Modification of Allotment under the GAA

- E.1 ☐ Undersecretary for Operations  
E.2 ☒ Secretary

Evaluated By:

ALEX S. BOTE

Director, Planning Service

Noted By:

CONSTANTE A. LLANES, JR., CESO III

Assistant Secretary for Planning Service

#### ACTION SLIP

Project ID: **P00726414LZ**

Date: \_\_\_\_\_

FOR SECRETARY MANUEL M. BONOAN OR \_\_\_\_\_

REMARKS:

- ☒ Reviewed by Planning Service  
☐ Recommended for Approval  
☐ Remarks: \_\_\_\_\_

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





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

April 28, 2023

**MEMORANDUM**

**FOR : MANUEL M. BONOAN**  
Secretary  
This Department

This refers to the memorandum dated 22 March 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, endorsing the request of **District Engineer ALBERTO N. GAHID, Mountain Province First District Engineering Office**, for the **modification** of the project under FY 2023 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
<b>UACS No. 320102105233000</b> <b>Project ID: P00726414LZ</b>  OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 350 - Sta. 28 + 850 (LS) along Chico River, Bontoc, Mountain Province			OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 242 - Sta. 28 + 440</b> (LS) along Chico River, Bontoc, Mountain Province		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Flood Mitigation Structure/ 500.00 lineal meters	₱ 154,400.00/ lineal meters	₱ 77,200,000.00	CW1- Construction of Flood Mitigation Structure/ <b>198.00</b> lineal meters	₱ <b>388,714.672</b> / lineal meters	₱ 76,965,505.00
EAO	-	₱ 2,800,000.00	EAO	-	₱ 2,791,495.00
-	-	-	EXCESS	-	₱ 243,000.00
<b>Total:</b>		<b>₱ 80,000,000.00</b>	<b>Total:</b>		<b>₱ 80,000,000.00</b>

**Justification:**

The project is to be modified in view of the following:

- The change in station limits was needed to address the portions of the river bank that need immediate intervention to prevent flooding and bank collapse along the residential and agricultural area.
- The increase in unit cost for CW1 is due to the increase in height of the Reinforced Concrete flood mitigation structure based on the computed maximum flood level in the area. The construction of a spur dike to break the velocity of the river and the introduction of Structural Steel Sheet Piles to stabilize the soil underneath the river bed were also contributed to such increase in unit cost.
- The resulting estimated unit cost per lineal meter of Flood control excluding the Items Part B and Part C is Php333,152.93 as per the evaluation of the Bureau of Construction. Nonetheless, it is considered reasonable since the unit cost of items of work involved is within the range of the prevailing cost of the Department.

See also the attached evaluation of the Bureau of Construction on the unit cost of the project. Attached are the following supporting documents: Hydraulic & Hydrologic Analysis, Project Impact Analysis, Master Plan, Approved Program of Works (POW) with Detailed Unit Price Analysis (DUPA), Detailed Engineering Design (DED), Certificate of Availability of Funds (CAF), BP 202, Geotagged photos, Certificate of Reasonableness of Cost Estimates and GIS Map.

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




**ADOR G. CANLAS**

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

**RECOMMENDING APPROVAL:**



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



**EUGENIO R. PIHO, JR.**  
Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

**APPROVED/~~DISAPPROVED~~:**



**MANUEL M. BONOAN**  
Secretary

2.3 mksa/MLS/AVS/AGC/ERP

Department of Public Works and Highways  
Office of the Secretary



WIN3E03012





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

April 28, 2023

**MEMORANDUM**

**FOR : MANUEL M. BONOAN**  
Secretary  
This Department

This refers to the memorandum dated 22 March 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, endorsing the request of **District Engineer ALBERTO N. GAHID, Mountain Province First District Engineering Office**, for the **modification** of the project under FY 2023 GAA, to wit;

As per GAA/Original			As Modified		
Project Description					
<b>UACS No. 320102105233000</b> <b>Project ID: P00726414LZ</b>  OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 350 - Sta. 28 + 850 (LS) along Chico River, Bontoc, Mountain Province			OO2: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers  Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 242 - Sta. 28 + 440</b> (LS) along Chico River, Bontoc, Mountain Province		
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Construction of Flood Mitigation Structure/ 500.00 lineal meters	₱ 154,400.00/ lineal meters	₱ 77,200,000.00	CW1- Construction of Flood Mitigation Structure/ <b>198.00</b> lineal meters	₱ <b>388,714.672/</b> lineal meters	₱ 76,965,505.00
EAO	–	₱ 2,800,000.00	EAO	–	₱ 2,791,495.00
-	-	-	EXCESS	-	₱ 243,000.00
<b>Total:</b>		<b>₱ 80,000,000.00</b>	<b>Total:</b>		<b>₱ 80,000,000.00</b>

**Justification:**

The project is to be modified in view of the following:

- The change in station limits was needed to address the portions of the river bank that need immediate intervention to prevent flooding and bank collapse along the residential and agricultural area.
- The increase in unit cost for CW1 is due to the increase in height of the Reinforced Concrete flood mitigation structure based on the computed maximum flood level in the area. The construction of a spur dike to break the velocity of the river and the introduction of Structural Steel Sheet Piles to stabilize the soil underneath the river bed were also contributed to such increase in unit cost.
- The resulting estimated unit cost per lineal meter of Flood control excluding the Items Part B and Part C is Php333,152.93 as per the evaluation of the Bureau of Construction. Nonetheless, it is considered reasonable since the unit cost of items of work involved is within the range of the prevailing cost of the Department.

See also the attached evaluation of the Bureau of Construction on the unit cost of the project. Attached are the following supporting documents: Hydraulic & Hydrologic Analysis, Project Impact Analysis, Master Plan, Approved Program of Works (POW) with Detailed Unit Price Analysis (DUPA), Detailed Engineering Design (DED), Certificate of Availability of Funds (CAF), BP 202, Geotagged photos, Certificate of Reasonableness of Cost Estimates and GIS Map.


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

  
**ADOR G. CANLAS**

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

**RECOMMENDING APPROVAL:**

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

  
**EUGENIO R. PIPO, JR.**  
Undersecretary for Regional Operations  
in CAR, Regions I, II, IX, X, XI, XII, and XIII

  
**APPROVED/~~DISAPPROVED~~:**

  
**MANUEL M. BONOAN**  
Secretary

  
2.3 mksa/MLS/AVS/AGC/ERP





Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
**MOUNTAIN PROVINCE FIRST  
DISTRICT ENGINEERING OFFICE**  
CORDILLERA ADMINISTRATIVE REGION  
Bontoc, Mountain Province

DPWH-MPFDEO-RMU
Code No. <b>466</b>
Date/Time <b>MAR 21 2023</b>

March 20, 2023

**MEMORANDUM**

**FOR : KHADAFFY D. TANGGOL**  
Regional Director  
DPWH-CAR

**ATTENTION : ANGELITA B. MABITAZAN**  
Chief, Planning and Design Division

**SUBJECT : Submission of Requirements for FY 2023 Modification of the project under Flood Management Program – Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers – Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 - Sta. 28 + 440 (LS) along Chico River, Bontoc, Mountain Province**

We are submitting the requirements for the modification of the FY 2023 project "Flood Management Program – Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers – Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 - Sta. 28 + 440 (LS) along Chico River, Bontoc, Mountain Province" for your endorsement.

As per GAA/Original			As Modified		
Project Description					
<b>UACS No.</b> 320102105233000 <b>Project ID:</b> P00726414LZ OO2: Protect Lives and Properties Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers - Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 350 - Sta. 28 + 850</b> (LS) along Chico River, Bontoc, Mountain Province			OO2: Protect Lives and Properties Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers - Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 242 - Sta. 28 + 440</b> (LS) along Chico River, Bontoc, Mountain Province		
Physical Target	Unit Cost P ('000)	Allocation P ('000)	Physical Target	Unit Cost P ('000)	Estimated Cost P ('000)
CW1- Construction of Flood Mitigation Structure: <b>500</b> Lineal Meters (lm)	₱ <b>154.4</b> / Lineal Meters (lm)	₱ 77,200.00	CW1- Construction of Flood Mitigation Structure: <b>198</b> Lineal Meters (lm)	₱ <b>389.90</b> / Lineal Meters (lm)	₱ 77,200.00
ROW – ROW Acquisition	-		ROW – ROW Acquisition	-	
EAO	-	₱ 2,800.00	EAO	-	₱ 2,800.00
<b>Total:</b>		<b>₱ 80,000</b>	<b>Total:</b>		<b>₱ 80,000</b>

**ALBERTO N. GAHID**  
District Engineer

CAR 18.1 JSA/ACG/ECT/ANG





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

March 22, 2023

**MEMORANDUM**

**FOR : MANUEL M. BONOAN**  
Secretary

**THRU : EUGENIO R. PIPO, JR.**  
Undersecretary for Regional Operations  
CAR, Regions I, II, IX, X, XI, XII and XIII

**SUBJECT : Request for Modification of the Project: 002: Protect Lives and Properties - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers - Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 350 - Sta. 28 + 850 (LS) along Chico River, Bontoc, Mountain Province**

We are respectfully forwarding the Memorandum dated March 20, 2023 from District Engineer Alberto N. Gahid, Mountain Province First District Engineering Office, regarding the modification of the above project in the amount of **Eighty Million Pesos (Php 80,000,000.00)**, as indicated below:

	FROM	TO
Project ID	P00726414LZ	
Project Title	Construction of Caluttit-Pakkil Flood Control, <b>Sta. 28 + 350 - Sta. 28 + 850</b> (LS) along Chico River, Bontoc, Mountain Province	Construction of Caluttit-Pakkil Flood Control, <b>Sta. 28 + 242 - Sta. 28 + 440</b> (LS) along Chico River, Bontoc, Mountain Province
Type of Work	Construction of Flood Mitigation Structure	Construction of Flood Mitigation Structure
Physical Target	<b>500</b> Lineal Meters	<b>198</b> Lineal Meters

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

For the consideration of the Secretary.

  
**KHADAFFY D. TANGGOL**  
Regional Director

CAR.1 MGB/EFD/JWC/ABM



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

April 26, 2023

**MEMORANDUM**

**FOR : Undersecretary EUGENIO R. PIPO, JR.**  
For Regional Operations in CAR, Regions I, II, IX, X, XI, XII & XIII

**SUBJECT : Request for Approval of Modification of Flood Management Program – Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 – Sta. 28+440 (LS) along Chico River, Bontoc, Mountain Province under FY 2023 GAA**

Forwarded herewith is the result of the review/evaluation for the above-mentioned project, which was referred to this office per memorandum dated April 12, 2023 (**Annex A**).

The total amount of **P80,000,000.00** (inclusive of EAO) for the construction of **198.00 l.m.** Caluttit-Pakkil Flood Control, Bontoc, Mountain Province as submitted was reduced to **P79,757,000.00** (inclusive of EAO) due to corrections made on the productivity output, utilization of labor & equipment, and unit price of material. Likewise, the items of work and corresponding quantities were based on the proposed approved Program of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Mountain Province 1<sup>st</sup> District Engineering Office.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
Part B	Other General Requirements	P 1,756,479.38	2.28%
Part C	Earthworks	P 9,244,330.08	12.01%
Part G	Drainage and Slope Protection Structures	P 65,964,280.87	85.71%
	<b>GRAND TOTAL</b>	<b>P 76,965,090.32</b>	<b>100.00%</b>

Cost per lineal meter of F.C. =  $\frac{P65,964,280.87}{198.00 \text{ l.m.}}$  = P333,152.93/l.m.  
(exclude Part B & C)

The estimated cost of **P333,152.93** per lineal meter is due to the design requirements as per approved plans, which include construction of reinforced concrete flood mitigation structure (H = 8m), gabion structure, and steel sheet piles at 48.00 kg/m (L = 6m), which accounts to **85.71%** of the total project cost, since these are the major items of work for the project. 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.

PCD 496/1

For the Undersecretary's information and reference.



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

Cc: Undersecretary MAXIMO L. CARVAJAL, for Information Management and Technical Services

6.1.1 RTO/VJS/CBC/JTS/MIP  
042623 memo modification MP1  
Ref. No. BOC- 6.1-109-4663/6.1.1-94-02



April 26, 2023

## MEMORANDUM

**FOR : Undersecretary EUGENIO R. PIPO, JR.**  
For Regional Operations in CAR, Regions I, II, IX, X, XI, XII & XIII

**SUBJECT : Request for Approval of Modification of Flood Management Program – Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 – Sta. 28+440 (LS) along Chico River, Bontoc, Mountain Province under FY 2023 GAA**

Forwarded herewith is the result of the review/evaluation for the above-mentioned project, which was referred to this office per memorandum dated April 12, 2023 (**Annex A**).

The total amount of **P80,000,000.00** (inclusive of EAO) for the construction of **198.00 l.m.** Caluttit-Pakkil Flood Control, Bontoc, Mountain Province as submitted was reduced to **P79,757,000.00** (inclusive of EAO) due to corrections made on the productivity output, utilization of labor & equipment, and unit price of material. Likewise, the items of work and corresponding quantities were based on the proposed approved Program of Works (POW) and detailed engineering design plans duly approved by the District Engineer, Mountain Province 1<sup>st</sup> District Engineering Office.

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)	PERCENT Weight (%)
Part B	Other General Requirements	P 1,756,479.38	2.28%
Part C	Earthworks	P 9,244,330.08	12.01%
Part G	Drainage and Slope Protection Structures	P 65,964,280.87	85.71%
	<b>GRAND TOTAL</b>	<b>P 76,965,090.32</b>	<b>100.00%</b>

Cost per lineal meter of F.C. =  $\frac{P65,964,280.87}{198.00 \text{ l.m.}}$  = P333,152.93/l.m.  
(exclude Part B & C)

The estimated cost of **P333,152.93** per lineal meter is due to the design requirements as per approved plans, which include construction of reinforced concrete flood mitigation structure (H = 8m), gabion structure, and steel sheet piles at 48.00 kg/m (L = 6m), which accounts to **85.71%** of the total project cost, since these are the major items of work for the project. 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.

For the Undersecretary's information and reference.



**ARISTARCO M. DOROY**

OIC-Director, Bureau of Construction

Cc: Undersecretary MAXIMO L. CARVAJAL, for Information Management and Technical Services

 OIC-Asst. Dir. MIP – ON LEAVE

JTS – 

CBC – 

VJS – 

RTO – 

6.1.1 RTO/VJS/CBC/JTS/MIP

042623 memo modification MP1

Ref. No. BOC- 6.1-109-4663/6.1.1-94-02



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

April 12, 2023

**MEMORANDUM**

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



Referred herewith is a Project Modification request of **DPWH District Engineer ALBERTO N. GAHID, Mountain Province 1<sup>st</sup> District Engineering Office**, under FY 2023 GAA, to wit:

Item No.	Project ID	Project Description (As Modified)	Amount (Php)
1	P00726414LZ	Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 – Sta. 28 + 440 (LS) along Chico River, Bontoc, Mountain Province	80,000,000.00

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

For your evaluation, comments, and/or recommendations.

**EUGENIO R. PIPO, JR.**

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

3.5 JFF/ECL/AGC/ERP

4





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

April 12, 2023

**MEMORANDUM**

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

Referred herewith is a Project Modification request of **DPWH District Engineer ALBERTO N. GAHID, Mountain Province 1<sup>st</sup> District Engineering Office**, under FY 2023 GAA, to wit:

Item No.	Project ID	Project Description (As Modified)	Amount (Php)
1	P00726414LZ	Construction of Caluttit-Pakkil Flood Control, Sta. 28 + 242 – Sta. 28 + 440 (LS) along Chico River, Bontoc, Mountain Province	80,000,000.00

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

For your evaluation, comments, and/or recommendations.

  
**EUGENIO R. PIHO, JR.**

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

3.5 JFF/ECL/AGC/ERP



## Tables for Modification Request Form

A. GENERAL					
<b>1. REGION</b> Cordillera Administrative Region		<b>2. DEO</b> Mountain Province First District Engineering Office		<b>3. LEGISLATIVE DISTRICT</b> MOUNTAIN PROVINCE (LONE DISTRICT)	
B. ORIGINAL PROJECT			C. PROPOSED REVISED PROJECT		
<b>4. UACS (Unified Account Code Structure as defined in GAA)</b> 320102105233000					
<b>5. Project Id</b> P00726414LZ					
<b>6. Project Category</b> OO2: Protect Lives and Properties					
<b>7. Sub-Program (P/A/P)</b> Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers					
<b>8. Operating Unit</b> Central Office			<b>18. Operating Unit (Change subject to DBM approval)</b> Central Office		
<b>9. Type of Work (Enter Details for all Components below)</b>			<b>19. Type of Work (Enter Details for all Components below)</b>		
Component ID	Type of Work		Component ID	Type of Work	
CW1	Construction of Flood Mitigation Structure		CW1	Construction of Flood Mitigation Structure	
<b>10. PROJECT DESCRIPTION (as recorded in GAA)</b> Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 350 - Sta. 28 + 850</b> (LS) along Chico River, Bontoc, Mountain Province			<b>20. PROJECT DESCRIPTION (of the revised project)</b> Construction of Caluttit-Pakkil Flood Control, Sta. <b>28 + 242 - Sta. 28 + 440</b> (LS) along Chico River, Bontoc, Mountain Province		
<b>11. ALLOTMENT (P'000) (as recorded in GAA)</b> 80,000			<b>21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment)</b> 80,000		<b>22. CAF (To be obtained from Financial Management office)</b> <input checked="" type="checkbox"/> YES
<b>12. PHYSICAL TARGET (Enter Details for all Components below)</b>			<b>23. PHYSICAL TARGET (Enter Details for all Components below)</b>		
Component ID	Target	Target Unit	Component ID	Target	Target Unit
CW1	500	Lineal Meters (lm)	CW1	<b>198</b>	Lineal Meters (lm)
<b>13. UNIT COST (Enter Details for all Components below)</b>			<b>24. UNIT COST (Enter Details for all Components below)</b>		
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	77,200.000	154.400	CW1	<b>76,965,505.00</b>	<b>388.714672</b>
EAO	2,800.000		EAO	<b>2,791,495.00</b>	
-	-	-	EXCESS	<b>243,000.00</b>	

## Tables for Modification Request Form

<b>14. PROJECT WORK LOCATION</b> (Must be defined in strict accordance with DO 65 Series 2014)				<b>25. PROJECT WORK LOCATION</b> (Must be defined in strict accordance with DO 65 Series 2014. Also complete "ANNEX A" for National Road projects under OO-1)			
Start X	120.97998	End X	17.09155	Start X	120.9793	End X	17.08912
Start Y	120.9793	End Y	17.08885	Start Y	120.97944	End Y	17.09055
<b>15. ROAD CLASSIFICATION</b> (if applicable) N/A				<b>26. ROAD CLASSIFICATION</b> (if applicable) N/A			
<b>16. IMPLEMENTING OFFICE</b> (Record the Implementing Office of the original project) Mountain Province First District Engineering Office				<b>27. IMPLEMENTING OFFICE</b> (Record the Implementing Office of the proposed revised project) Mountain Province First District Engineering Office			
<b>17. PROJECT IMPLEMENTATION PLAN (PIP)</b>				<b>28. PROJECT IMPLEMENTATION PLAN (PIP)</b>			
Planned Start Date		Planned End Date		Planned Start Date		Planned End Date	
05/8/2023		12/18/2023		05/8/2023		12/18/2023	
<b>29. OVERLAP?</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				<b>30. UNDER WARRANTY?</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			

**D. ATTACHMENTS & JUSTIFICATIONS**

<b>31. PROJECT IMPACT ANALYSIS ATTACHED?</b> (For Flood Control Projects) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A
<b>32. TECHNICAL JUSTIFICATION</b> (Explain in detail in Bullet point format; minimum of 2 points) <p><i>Change in Station Limits in the Project Description and Decrease in physical target for CW1 - Construction of Flood Mitigation Structure from 500 Lineal Meters to 198 Lineal Meters due to the following:</i></p> <ul style="list-style-type: none"> <li><i>The change in station limits was needed to address the portions of the river bank that need immediate intervention to prevent flooding and bank collapse along the residential and agricultural area.</i></li> <li><i>The increase in unit cost for CW1 is due to the increase in height of the Reinforced Concrete flood mitigation structure based on the computed maximum flood level in the area. The construction of spur dike to break the velocity of the river and introduction of Structural Steel Sheet Piles to stabilize the soil underneath the river bed were also contributed in such increase in unit cost.</i></li> <li><i>The increase in prices of fuel and other petroleum products greatly affects the prices of construction materials and equipment rental rates used in the preparation of detailed estimates of the proposed project which also contributed to the variance in unit cost thereon causing a decrease in the length of the proposed flood mitigation structure.</i></li> <li><i>The resulting estimated unit cost per lineal meter of Flood control excluding the Items Part B and Part C is Php333,152.93 as per the evaluation of the Bureau of Construction. Nonetheless, it is considered reasonable since the unit cost of items of work involved is within the range of the prevailing cost of the Department.</i></li> </ul> <p><i>See also the attached evaluation of the Bureau of Construction on the unit cost of the project. Attached are the following supporting documents: Hydraulic &amp; Hydrologic Analysis, Project Impact Analysis, Master Plan, Approved Program of Works (POW) with Detailed Unit Price Analysis (DUPA), Detailed Engineering Design (DED), Certificate of Availability of Funds (CAF), BP 202, Geotagged photos, Certificate of Reasonableness of Cost Estimates and GIS Map.</i></p>
<b>33. PHOTOS SUBMITTED</b> <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES
<b>34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED</b> <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES



## Tables for Modification Request Form

35. PREPARED BY:			
Name:	 JULIE S. AMRANGEB	Position:	Engineer II
Office:	Planning and Design Section	Date:	
36. REVIEWED BY DISTRICT OFFICE (If Required)		38. REVIEWED BY REGIONAL OFFICE	
Name:	 ARTEMIO C. GUISALA	Name:	 ANGELITA B. MABITAZAN
Position:	Chief, Planning and Design Section	Position:	 Chief, Planning and Design Division
Date:		Date:	
37. RECOMMENDED BY DISTRICT OFFICE (If Required)		39. RECOMMENDED BY REGIONAL OFFICE	
Name:	 ALBERTO N. GAHID	Name:	 KHADAFF D. TANGGOL
Position:	District Engineer	Position:	Regional Director
Date:		Date:	

## Tables for Modification Request Form

UACS (Unified Account Code Structure as defined in GAA)

320102105233000

Project Id

P00726414LZ

### 40. DPWH OFFICE OF THE UNDERSECRETARIES FOR OPERATIONS

Primary Reason for Request (based on Category of Modification): (choose one)

Category A	Category B	Category C	Category D	Impact
<input type="checkbox"/> Typographical error on Project Description	<input type="checkbox"/> Overlapping Sections <input type="checkbox"/> Change in Station Limits <input type="checkbox"/> Change in Physical Target	<input type="checkbox"/> No such Barangay <input type="checkbox"/> No such City or Municipality	<input type="checkbox"/> Change in (IO), requiring a change in the (OU)	<input type="checkbox"/> No change or decrease in unit cost <input type="checkbox"/> 20% or less increase in unit cost <input type="checkbox"/> > 20% increase in unit cost

Reviewed by Office of the Undersecretary for Operations

Name:	Engr. MANUEL L. SINGSON	Engr. ANTONIO V. SOBREVÍÑAS, JR.
Signature		
Position:	Project Manager I	Project Manager II
Date:	3/2/23	3/23/23

### 41. DPWH PLANNING SERVICE

<b>Category of Modification</b> (please check the appropriate)	<input type="checkbox"/> Category A – Typographical Error <input type="checkbox"/> Category B – Change in Station Limits <input type="checkbox"/> Category C – Change in Location, due to non-existing location <input type="checkbox"/> Category D – Change in Operating Unit (requires DBM approval) <input type="checkbox"/> Modification does not comply with DBM Categories
---	--

Reviewed by Planning Service

Name:	ANNA ANDREA M. NOCHE	Name:	PETER PAUL R. CORTEZ
Signature		Signature:	
Position:	Regional Coordinator	Position:	OIC - Chief of Programming Division
Date:	05.03.23	Date:	