

Programming Division Evaluation Sheet

| Cocale | Reviewed by Planning Service Recommended for Approval Remarks: | Project ID: P00727253LZ FOR SECRETARY MANUEL M. BONOAN OR | By: ALEX G. BOTE Opirector, Planning Service of Company of the C | E. Approving Authority as per D.O. 13, s. 2023, Guidelines on Modification of Allotment under the GAA E.1 Undersecretary for Operations | D.3 Certificate of Cost Reasonableness by RD Charge in targets with 157.05% increase in unit Cost. Reviewed by BOC dated September 22, 2023:1 amount from Php100,000,000.00 to Php98,121,072.74 and an excess amount of Php1,878,927.26 | D.1 Condition/s: % decrease in unit cost | 21 FUND S | B.1 ALLOWED as per the GAA Provisions B.2 NOT ALLOWED as per the GAA Provisions | _= | A.2.5 Change in Project Component/s Details A.2.5.1 Change in Targets Change in Scope of Work from | A.2.1 Typographical Error/s A.2.2 Change in Location (for <u>non-existent locations</u> only) A.2.3 Change in Station Limits A.2.4 Addition/Deletion of Word/s | A.1.1 Geographical Jurisdiction A.1.2 Approval of Authority to Bid/Implement A.2 PROJECT MODIFICATION/ADJUSTMENTS | ing Office: | bango | |
|--------|--|---|--|--|---|--|---------------------|--|----|--|--|--|------------------|----------------------------|--|
| | | Date: | CONSTANTE A. LLANES, JR., CESO III Assistant Secondary, Planning Sérvice | Allotment under | C dated September 22, 2023: reduced amount of Php1,878,927.26 | | Amount: 100,000,000 | | | 1. 10 No.: 77-187 7 | NOV 0 6 2023 | 102 - 00m0 | Date: 10/09/2023 | Appropriation: 100 000 000 | |



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

This refers to the memorandum dated 8 September 2023 of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, endorsing the request of District Engineer **JOSELITO T. ARAO** of **Abra District Engineering Office** for the **modification** of the project under FY 2023 GAA, to wit;

| As | As per GAA/Original | 2 | | As Modified | |
|---|---|--|--|--|--|
| | | | Project Description | | |
| Project ID:P00727253LZ | 5191000 53LZ | | | | |
| OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, | Properties Against tion of Flood Mitigat Principal River, | Major Floods, tion Facilities within | OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, | Properties Against N tion of Flood Mitigati Principal River, | Major Floods, tion Facilities within |
| Construction of Bangbangcag Flood Control, Bucay, Abra | ngcag Flood Contro | l, Bucay, Abra | Construction of Bangbangcag Flood Contro | ngcag Flood Control, | , Bucay, Abra |
| Type of Work/ Physical Target | Unit Cost | Allocation | Type of Work/ Physical Target | Unit Cost | Estimated Cost |
| CW1- Construction of Flood Mitigation Structure / 820.497 l.m. | ₱ 117,611.64/ l.m. | ₱ 96,500,000.00 | CW1- Construction of Flood Mitigation Structure/ 313.20 l.m. | ₱ 302,320.67 / | P 94,686,835.19 |
| EAO | ı | ₱ 3,500,000.00 | EA0 | ı | ₱ 3,434,237.55 |
| | | | felien b | Excess: | P1,878,927.26 |
| | Total: | P100,000,000.00 | 0.0 | Total: | P100,000,000.00 |
| Justification: | | | | | |
| The increase i concrete dike t usage of steel mitigation and | in unit cost which type of flood mitigal sheet piles is nece | The increase in unit cost which resulted to the decrease concrete dike type of flood mitigation structure with steel usage of steel sheet piles is necessary to prevent scour mitigation and ensure over-all stability of the project over-all stability over-all s | 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 49.21% 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 are | et is due to the use f 49.21% of the pro- along the foundati | sage of a reinforced sject direct cost. The find from the proposed |
| The huge/mas | sive rock embankm | The huge/massive rock embankment, and concrete pile cap and cut-off war project cost respectively also contributed to the high mit cost of the | The huge/massive rock embankment, and concrete pile cap and cut-off wall consisting of 42.35% and 3.64% of the | onsisting of 42.35% | and 3.64% of the |
| The derived ur reference to the | nit cost is based on | the approved Detailed | The derived unit cost is based on the approved Detailed Cost of the Project. The derived unit cost is based on the approved Detailed Cost of the Project. The derived unit cost is based on the approved Detailed Cost of the Project. The derived unit cost is based on the approved Detailed Cost of the Project. The derived unit cost is based on the approved Detailed Cost of the Project. | PA) and Program of | Works (POW) with |
| See attached Reasonablenes | Cross-Section Dra s of Cost Estimates | See attached Cross-Section Drawing of the Project Submittee Reasonableness of Cost Estimates signed by the Regional Director. | 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. | rict Engineer, and | the Certificate of |
| | | | | 1 | • |

M-00-M200 - 11 122 Website: https://www.dpwh.gov.ph Tel. No(s).: 5304-3000 / (02) 165-02



UACS No.: 320102105191000 Project ID: P00727253LZ

Page 2 of 2

order; henge, 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

RECOMMENDING APPROVAL:

MARIA CATALINA E. CABRAL, Ph.D., CESO I

Undersecretary for Planning and Public-Private Partnership Services

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

APPROVED/BISAPPROVED:

MANUEL

BONOAN

2.3 mksa/MLS/AVSRPBG/ERP

Department of Public Works and Highways
Office of the Secretary

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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

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 8 September 2023 of DPWH CAR

| s: P1,878,927.26 l: P100,000,000.00 | | | | | |
|--|---|---|---|--|---|
| 1000000 | Total: | | P100,000,000.00 | Total: | |
| | Excess: | | | | |
| P 3,434,237.55 | Ī | EAO | ₱ 3,500,000.00 | 1 | EAO |
| P 94,686,835.19 | ₱ 302,320.67/ I.m. | CW1- Construction of Flood Mitigation Structure/ 313.20 l.m. | ₱ 96,500,000.00 | ₱ 117,611.64/ l.m. | CW1- Construction of Flood Mitigation Structure / 820.497 l.m. |
| Estimated Cost | Unit Cost | Type of Work/ Physical Target | Allocation | Unit Cost | Type of Work/ Physical Target |
| trol, Bucay, Abra | Ingcag Flood Cont | Construction of Bangbangcag Flood Control, Bucay, Abra | ıl, Bucay, Abra | ngcag Flood Contro | Construction of Bangbangcag Flood Control, Bucay, Abra |
| st Major Floods, gation Facilities within | l Properties Agains ition of Flood Mitig 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, tion Facilities within | Properties Against tion of Flood Mitiga Principal River, | OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, |
| | As Modified | Project Description | | As per GAA/Original 105191000 7253LZ | As per GAA UACS No.:320102105191000 Project ID:P00727253LZ |

- 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 49.21% 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 42.35% and 3.64% 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, 2823. 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.: 320102105191000 Project ID: P00727253LZ

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

REY PETEK 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/BISAPPROVED:

Undersection of Regional Operations in CAP, Regions I, II, IX, X, XI, XII, and XIII

2.3 mksa/MLS/AVSRPBG/ERP

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





September 25, 2023

MEMORANDUM

.. KHADAFFY D. TANGGOL

0

Regional Director DPWH-CAR

Engineer's Hill, Baguio City

ATTENTION: JOSELITO T. ARAO

District Engineer
Abra District Engineering Office Bangued, Abra

Transmitted herewith is the attached result of evaluation by the Bureau of Construction (BOC) on the request for the Project Modification of the Six (6) projects, listed hereunder, covered by FY 2023 GAA DPWH Infrastructure Program, to wit;

| Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Protecting Public Infrastructure/ Facilities, Construction of Palaquio Flood Control Structure, Rucay Abra |
|---|
| |
| of Hood Control Structure along Abra Major River Basin, (Phase II), Barangay Caupasan, Danglas, Abra |
| Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction |
| OO2: Protect Lives and Properties Against Major Floods, |
| Structur, La Paz, Abra |
| Flood Mitigation Structure Protecting Public Infrastructure/ |
| Sustainable Infrastructure Project Alleviating Gaps (SIPAG) — |
| Barangay Palaquio, Bucay, Abra |
| of Flood Control Structure along Ahra Major River Racin |
| Construction/Rehabilitation of Flood Mitigation Facilities |
| 002: Protect Lives and Properties Against Major Floods, |
| Barangay San Jose Sur, Manabo, Abra |
| of Flood Control Structure along Abra Major River Basin, |
| within Major River Basins and Principal River, Construction |
| Construction/Rehabilitation of Flood Mitigation Facilities |
| 002: Protect Lives and Properties Against Major Floods, |
| of Bangbangcag Flood Control, Bucay, Abra |
| within Major River Basins and Principal River, Construction |
| Construction/Rehabilitation of Flood Mitigation Facilities |
| 002: Protect Lives and Properties Against Major Floods, |
| Project Title |





Request for the Project Modification of the Six (6) projects under FY 2023 GAA DPWH Infrastructure Program

Page 2 of 2

For your appropriate action.

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

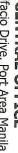
2.3 mksa/AVS/RPBG/ERP

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





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





September 25, 2023

MEMORANDUM

0 KHADAFFY D. TANGGOL

Regional Director DPWH-CAR

Engineer's Hill, Baguio City

ATTENTION: JOSELITO T. ARAO

District Engineer
Abra District Engineering Office
Bangued, Abra

Transmitted herewith is the attached result of evaluation by the Bureau of Construction (BOC) on the request for the Project Modification of the Six (6) projects, listed hereunder, covered by FY 2023 GAA DPWH Infrastructure Program, to wit;

| Project ID OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra. 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, Barangay San Jose Sur, Manabo, Abra. 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, Barangay Palaguio, Bucay, Abra. Sustainable Infrastructure Protecting Public Infrastructure/ Facilities, Construction of Flood Mitigation Facilities within Major River Basins and Principal River, Construction Structure, La Paz, Abra. OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Structure, La Paz, Abra. OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Mitigation Facilities within Major River Basins, Danglas, Abra. Sustainable Infrastructure Protecting Public Infrastructure/ Facilities, Construction of Palaguio Flood Control Structure/ Facilities within Major River Basins and Principal River, Construction Facilities within Major River Basins, Facilities Major Flood Facilities within Major River Basins and Principal Ri | | | | |
|--|----------------|--|-------------|-----|
| Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra. 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, Barangay San Jose Sur, Manabo, Abra. OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Mitigation Structure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Project Alleviating Gaps (SIPAG) – Flood Mitigation of Patagui-Dagsian Flood Control Structure, La Paz, Abra. 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. | 100,000,000.00 | Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Protecting Public Infrastructure/ Facilities, Construction of Palaquio Flood Control Structure, Bucay, Abra | P00740312LZ | |
| Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Properties Against Major Floods, within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra. 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, Barangay San Jose Sur, Manabo, Abra. 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, Barangay Palaquio, Bucay, Abra. Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Protecting Public Infrastructure/ Facilities, Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra. | 150,000,000.00 | 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 | P00726381LZ | ណ៍ |
| OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra. 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, Barangay San Jose Sur, Manabo, Abra. 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, Barangay Palaquio, Bucay, Abra | 150,000,000.00 | Sustainable Infrastructure Project Alleviating Gaps (SIPAG) – Flood Mitigation Structure Protecting Public Infrastructure/ Facilities, Construction of Patagui-Dagsian Flood Control Structur, La Paz, Abra | P00740308LZ | 4. |
| OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra. 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, Barangay San Jose Sur, Manabo, Abra | 150,000,000.00 | 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, Barangay Palaquio, Bucay, Abra | P00726385LZ | ω |
| OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra | 150,000,000.00 | 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, Barangay San Jose Sur, Manabo, Abra | P00726387LZ | 2. |
| Project Title | 100,000,000.00 | OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, Abra | P00727254LZ | i. |
| | Amount (Php) | Project Title | Project ID | No. |



Request for the Project Modification of the Six (6) projects under FY 2023 GAA DPWH Infrastructure Program

Page 2 of 2

For your appropriate action.

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

ISO 9001



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



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 Request for Modification of Twelve (12) Various Projects
 Prepared by DPWH Abra District Engineering Office with the
- Major Floods, Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control, Bucay, P00727253LZ - OO2: Protect Lives and Properties Against Major Floods, Construction/Rehabilitation of Flood
- Ņ 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, Barangay San Jose Sur, Manabo, Abra P00726387LZ - OO2: Protect Lives and Properties Against
- W 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, Barangay Palaquio, Bucay, Abra P00726385LZ - 002: Protect Lives and Properties Against
- 4 P00740308LZ - Sustainable Infrastructure Project Alleviating Gaps (SIPAG) - Flood Mitigation Structure Protecting Public Infrastructure/Facilities, Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra
- **O**I 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 Maior Floods, Construction/Rehabilitation of Flood
- 9 Alleviating Gaps (SIPAG) – Flood Mitigation Structure protecting Public Infrastructure/Facilities, Construction of Palaquio Flood Control Structure, Bucay, Abra P00740312LZ Sustainable Infrastructure Project

216/3 NI (6) Green tolders

- 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
- 00 943.0 P00739555LZ - 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 – K0441 + 001.8 – K0449 +
- 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. P00739553LZ 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 . CONVERGENCE AND SPECIAL SUPPORT
- 11. 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 – K0433 + 587 – K0440 +
- PROGRAM, Special Road Fund Motor Vehicle User's Charge (MVUC) as per R.A. 11239, Installation of Road Safety P00739550LZ -Devices Along Abra-Ilocos Norte Rd - K0416 + 938 - K0426 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, CAR.

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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.

| 7 | | | | |
|----------|--|---|---------------|------------|
| HEM | DESCRIPTION | | AMOUNT | PERCENT |
| NO. | | | (Total Cost) | Weight (%) |
| Part A | Facilities for the Engineer | P | 157,512.60 | 0.17% |
| Part B | Other General Requirements | 0 | 1,116,882.37 | 1.18% |
| Part F | Bridge Construction | ס | 3,571,046.34 | 3.77% |
| Part G-A | Drainage and Slope Protection Structures | ס | 41,549,624.59 | 43.88% |
| Part I-A | Earthworks | Р | 489,564.83 | 0.52% |
| Part I-B | Bank and Slope Protection | P | 47,802,204.46 | 50.48% |
| | GRAND TOTAL | P | 94,686,835.19 | 100.00% |

Cost per linear meter of Flood = Mitigation Structure

P 94,686,835.19 313.20 lin. m.

= 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.

Page 4 of 7

| 100.00% | 141,940,493.36 | 70 | GRAND TOTAL | |
|--------------------|------------------------|----|--|----------|
| 58.72% | 83,345,209.36 | ס | Bank and Slope Protection | Part I-B |
| 0.60% | 849,199.31 | ס | Earthworks | Part I-A |
| 34.63% | 49,150,369.05 | ס | Drainage and Slope Protection Structures | Part G-A |
| 4.89% | 6,942,406.94 | P | Bridge Construction | Part F |
| 1.05% | 1,486,100.39 | ס | Other General Requirements | Part B |
| 0.12% | 167,208.30 | ס | 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 estimated cost per linear meter includes the use of a considerable amount of 49,868.32 cubic meter of Hand-laid Rock Embankment and 7,410.00 meters of Steel Sheet Piles, which account 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

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. due to the corrections in the price of reinforcing steel for item 404 and gravel for item 405 & 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

| TEM | DESCRIPTION | | AMOUNT | PERCENT |
|----------|--|---|---------------|------------|
| NO. | | | (Total Cost) | Weight (%) |
| Part A | Facilities for the Engineer | ס | 167,208,30 | 0.12% |
| Part B | Other General Requirements | Р | 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 I welve (12) Various Projects Prepared by DPWH Apra District Engineering Office with the total amount of P1,400,000,000.00

Page 5 of 7

| 100.00% | 142,842,255.02 | P | GRAND TOTAL | |
|---------|----------------|----------|---------------------------|----------|
| 44.51% | 63,581,173.51 | P | Bank and Slope Protection | Part G-A |
| 3.68% | 5,252,094.89 | م | Bridge Construction | Part F |

Cost per linear meter of Flood = Mitigation Structure

P 142,842,255.02 460.00 lin. m.

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

SCOPE OF WORK OF PROJECT NO. 4:

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). 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.

| 1000 000 | VV CULCIVICVE O | 0 | GRAND TOTAL | |
|------------|-----------------|---|---------------------------------|----------|
| 34.49% | 49,192,599.99 | ס | Bank and Slope Protection | Part G-A |
| 4.50% | 6,413,898.05 | ъ | Bridge Construction | Part F |
| 59.07% | 84,257,346.84 | Ъ | Bank and Slope Protection Works | Part I-B |
| 0.80% | 1,137,137.21 | Р | 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 |
| Weight (%) | (Total Cost) | | | NO. |
| PERCENT | AMOUNT | | DESCRIPTION | ITEM |

Cost per linear meter of Flood Mitigation Structure P 142,643,103.44 613.20 lin. m. 11 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 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. The estimated cost of P232,620.85 per linear meter for the Construction of Patagui-Dagsian

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

Mitigation Structure Cost per linear meter of Flood 11 P 142,181,255.07 939.20 lin. m.

11

P 151,385.49 /lin. m.

The estimated cost of **P151,385.49** per linear meter for the Construction of Flood Control 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:

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.

| NO.(Total Cost)Weight (%)Part AFacilities for the EngineerP 157,512.600.17%Part BOther General RequirementsP 1,008,118.591.06% | ITEM | DESCRIPTION | | AMOUNT | PERCENT |
|--|--------|-----------------------------|---|---|------------|
| P 157,512.60 Other General Requirements P 1,008,118.59 | NO. | - | | (Total Cost) | Weight (%) |
| Other General Requirements P 1,008,118.59 | | | | - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 | 0101911010 |
| Other General Requirements P 1,008,118.59 | | Facilities for the Engineer | ס | 157,512.60 | 0.17% |
| Other General Requirements P 1,008,118.59 | | | | | |
| | Part B | Other General Requirements | ס | 1,008,118.59 | 1.06% |

| 100.00% | P 95,077,331.23 | P | GRAND TOTAL | |
|---------|-----------------|----|--|----------|
| 47.90% | 45,541,319.44 | P | Part I-B Bank and Slope Protection | Part I-B |
| 0.48% | 458,286.00 | P | Part I-A Earthworks | Part I-A |
| 45.81% | 43,559,247.87 | 70 | Drainage and Slope Protection Structures | Part G-A |
| 4.58% | 4,352,846.72 | P | Bridge Construction | Part F |

Mitigation Structure Cost per linear meter of Flood 11

P 95,077,331.23 295.20 lin. m.

> 11 T 322,077.68 /lin. m.

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. The estimated cost of P322,077.68 per linear meter is due to the design requirements as

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

the Undersecretary's information.

ALLAN S. BORROMEO, CESO III
Director, Buyeau of Construction

cs: 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

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

70

District Engineer JOSELITO T. ARAO 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:

| P00726381LZ – 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 | 5. P00740308LZ — Sustainable Infrastructure Project Alleviating Gaps (SIPAG) — Flood Mitigation Structure protecting Public Infrastructure/Facilities, Construction of Patagui-Dagsian Flood Control Structure, La Paz, Abra | P00726385LZ – Construction of Flood Control Structure along Abra Major River Basin, Barangay Palaquiao, Bucay Abra | P00726387L2 - Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Flood Control Structure along Abra Major River Basin | P00727253LZ - Construction/Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal River, Construction of Bangbangcag Flood Control | P00727254LZ - Construction of Flood Control Structure along Abra Major River Basin, Paga, Malabbaga, La Paz, Abra | PROJECT TITLE |
|--|--|--|--|---|---|---------------|
| Lives and Properties Agains bilitation of Flood Mitigatio ns and Principal River, ructure along Abra Major | frastructure Project Mitigation Structure -acilities, Construction of tructure, La Paz, Abra | of Flood Control Structure Irangay Palaquiao, Bucay | ehabilitation of Flood River Basins and Principal trol Structure along Abra | ehabilitation of Flood River Basins and Principal cag Flood Control | f Flood Control Structure ga, Malabbaga, La Paz, | |
| יי כ | T | 70 | J | 70 | 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 | THUMOMA |

Request for Modification of Fifteen (15) Various Projects Prepared by DPWH Abra District Engineering Office with

Page 2 of 4

| P 1,700,000,000.00 | GRAND TOTAL AMOUNT | |
|--------------------|--|-----|
| 1 | 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 | į. |
| 100 000 000 00 | K0432 + 600 | 3 |
| | Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Ahra-Kalinga Rd – K0425 + 500 – | |
| 100,000,000.00 | 14. P00739554LZ - CONVERGENCE AND SPECIAL ,SUPPORT P PROGRAM. Special Road Fund - Motor Vehicle User's | 14 |
| | - | |
| | Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Tlocos Norte Rd - K0432 + 000 - | |
| 100,000,000.00 | PROGRAM, Special Road Fund - Motor Vehicle User's | C |
| | _ | 1 |
| | Safety Devices Along Abra-Ilocos Norte Rd – K0431 + 100 – | |
| | PROGRAM, Special Road Fund - Motor Vehicle User's | |
| 100,000,000.00 | | 12. |
| | Safety Devices Along Abra-Llocos Norte Rd = KU432 + 600 = K0450 + 000 | |
| | g | |
| 3 | | |
| 100,000,000.00 | - | |
| | K0431 + 100 | |
| | Charge (MVUC) as per R.A. 11239, Installation of Road Safety Devices Along Abra-Tiones Norte Rd – K0427 + 000 – | |
| | | |
| 100,000,000.00 | - | 10. |
| | Construction of Malabbaga Flood Control, La Paz, Abra | |
| | | |
| 100,000,000.00 | _ | 9 |
| | Construction of Bull Flood Control, La Paz, Abra | |
| | Major Floods, Construction/Rehabilitation of Flood Militage within Major Biver Basins and Principal River. | |
| 100,000,000.00 | | Ċ |
| | Palaguio Flood Control Structure, Bucay, Abra | |
| | Alleviating Gaps (SIPAG) – Flood Mitigation Structure | |
| 100,000,000.00 | | 7. |
| | Training in the control of the contr | |

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;
- 2 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;
- è The programmed quantities of Steel Sheet Pile in project no. 7 were with the station limits indicated in the approved plans, please rectify; 7 were found inconsistent
- 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;
- U 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;
- ·~! 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 afforementioned D.O. for project nos. 10 & 15;
- 00 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;
- 0.01 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;
- 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.;

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 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 BORROMEO

Director, Bureau of Construction

Undersdoretary ADOR G. CANLAS, for Information Management and Technical Services
Undersdoretary EUGENIO R. PIPO, JR., for Regional Operations in CAR, Region I, II, DK, 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 9, 2023

MEMORANDUM

FOR : MANUEL M. BONOAN

Secretary

IHRU : 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 - Flood Management Program - Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers - Construction of Bangbangcag Flood Control, Bucay, 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 Million Pesos (I Php 98,121,072.74), as indicated below:

| 313.200 Lineal meters | 820,497 Lineal meters | Physical Target |
|------------------------------|------------------------------|--------------------|
| | 320102105191000 | UACS |
| | Project ID P00727253LZ | 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.

Regional Directo KHADAF TANGGOL

CAR.1 TPIL/EFD/JWC/ABM





Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DISTRICT ENGINEERING OFFICE ABRA





September 7, 2023

MEMORANDUM

FOR KHADAFFY D. TANGGOL

Regional Director

THRU : ANGELITA B. MABITAZAN

Chief, Planning and Design Division

SUBJECT --

Request for the Modification of the Project: ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties Against Major Floods - Flood Management Program - Construction/ Maintenance of

Flood Mitigation Structures and Drainage Systems, Construction of Bangbangcag Flood Control, Bucay, Abra

We are respectfully submitting for review and evaluation the above-mentioned subject for Modification, amounting to **One Hundred Million Pesos ((Php 98,121,072.74)** as indicated below:

FROM

Project Title:

Construction of Bangbangcag Flood Control,

Bucay, Abra

Physical Target: CW1 – **820.497** Lineal meters

Project Title: Construction of Bangbangcag Flood Control, Bucay, Abra

Physical Target: CW1 - **313.2** Lineal meters

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

JOSELITO ARAO

District Engineer

CAR.8.1 MJDJ/CLAR/JTA

CHECKLIST PROJECT MODIFICATION

| 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 Facility within Major River Basins and Principal Rivers, Construction of Bangbangcag Flood |
|---|--|
| Project ID Project Allocation | : P007272531Z UACS Code : 320102105191000 : Php 100,000,000.00 |
| 1. Modification Request Form 2. AIP 3. Certificate of Availability of Funds | uest Form |
| 4. Supporting Data & Analysis A. a. Road Condition (RE A. b. Traffic Volume Cap | poorling Data & Analysis a. Road Condition (RBIA Latest Official Database) b. Traffic Volume Capacity Ratio (for Widening Projects) |
| | c. Bridge Condition (BMS Latest Official Database) d. Hydraulic & Hydrologic Analysis (for New/Replacement Bridges and Flood Control Projects) e. RSM Forms (for Road Slips) f. Project Impact Analysis (for Flood Control Projects) g. Master Plan (for Flood Control Projects) |
| 6. Geotagged Photos a. Hard Copy b. Electronic Copy c. Plotted in the GI | lagged Photos a. Hard Copy b. Electronic Copy c. Plotted in the GIS Map |
| | d. District Engineer b. Construction and Maintenance Division Chiefs I Clearance a. District Engineer b. LGU Tonmental Clearances a. Not Within a "No Build Zone" (MGB) |
| 9. Environmental C | onmental Clearances a. Not Within a "No Build Zone" (MGB) b. Tree Cutting Permit (If Applicable-EMB) c. CNC/ECC/EIA (EMB) |
| 12. 1. 0. | Social Clearance (not within a Declared Heritage/Cultural Site-NCCA) Certificate of Reasonableness (for Projects with Changes in Unit Cost) Project Details a. POW b. DUPA c. Plans c. Plans 2. Summary of Quantities 3. Cross Section Showing Changes (if Applicable) a. Materials Source Map |
| 13. Certificate of Loc | Certificate of Local Government Unit |

Checked by:

ERUND F. DOLIENTE
Exgineer III
Chief, Planning Section

| | | MODIFICATION | Luchaear I oi iii | | |
|--|--|---|--|---|---|
| | | A. G | A. GENERAL | Total Control of the | |
| 1. REGION Cordillera Administrative Region | | 2. DEO Abra District Engineering Office | Office | 3. LEGISLATIVE D Abra Lone District | DISTRICT |
| В. (| ORIGINAL PROJECT | | C. PROPOSED | OSED REVISED PROJECT | |
| 4. UACS (Unified Account Code Structure as defined in GAA) 320102105191000 | t Code Structure as defined | in GAA) | | | |
| 5. Project Id P00727253LZ | | | | | |
| 6. Project Category | and Properties | | | | |
| 7. Sub-Program (P/A/P) | /P) | | To Take Brains | Tring Divers | |
| Construction/ Rehabi | litation of Flood Mitig | gation Facilities wit | Construction/Rehabilitation of Flood Mitigation Facilities within Major river basins and rimcpararives | THE THEORY PRIVATE | |
| 8. Operating Unit | | | 18. Operating Unit (Change subject to DBM approval) Central Office | ge subject to DBM approval) | |
| 9. Type of Work (Ente | 9. Type of Work (Enter Details for all Components below) | s below) | 19. Type of Work (Enter Details for all Components below) | Details for all Components be | elow) |
| Component ID | Type of Work | | Component ID | Type of Work | |
| CW1 | Construction of Fl Structure | Flood Mitigation | CW1 | Construction of Flood Structure | 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 a Construction of Bangbangeag | 10. PROJECT DESCRIPTION (as recorded in GAA) Construction of Bangbangeag Flood Contro | ecorded in GAA) Flood Control, Bucay, Abra | 20. PROJECT DESCRIPTION (of the revised project) Construction of Bangbangcag Flood Control, | | Bucay, Abra |
| 11. ALLOTMENT (P'C | 11. ALLOTIMENT (P'000) (as recorded in GAA) 100000 | | 21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment) 100000 | | 22. CAF (To be obtained from Financial Management office) ☐YES |
| 12. PHYSICAL TARGI | 12. PHYSICAL TARGET (Enter Details for all Components below) | nponents below) | 23. PHYSICAL TARGET (Enter Details | Enter Details for all Components below) | ents below) |
| Component ID | Target | Target Unit | Component ID | Target | Target Unit |
| CW1 | 820.497 | Lineal Meters (lm) | CW1 | 313.20 | Lineal Meters (lm) |
| 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. |
| 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 | s below) | 24. UNIT COST (Enter De | (Enter Details for all Components below | w) |
| 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 | 96500 | 117.61164 | CW1 | 94686.83520 | 302.32067 |
| EAO | 3500 | Click here to enter text. | EAO | 3434.23755 | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | PHYSICAL RESERVED | 1878.92726 | Click here to enter text. |
| Click here to enter text. | Click here to enter text. | Click here to enter | Click here to enter text. | Click here to enter text. | Click here to enter text. |

| | Modificati | Modification reduces: | click here to enter text. | Click here to enter text. |
|---|---|---|--|---|
| Jick here to enter text. Click here to enter text. | ter text. Click here to enter | Click here to enter us.v. | | to swirt accordance with |
| 14. PROJECT WORK LOCATION (Must be defined in strict | ust be defined in strict | 25. PROJECT WORK LOCATION (Must be defined in Stitu according to DO 65 Series 2014. Also complete "ANNEX A" for National Road | ATION (Must be defined applete "ANNEX A" for | r National Road |
| Click here to enter text. | | Click here to enter text. | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 190 738 | End X 120.737 | Start X 120.738 | End X | 120.757 |
| 17 7628 | End Y 17.567 | Start Y 17.5638 | End Y | 17.567 |
| Start Y 11.3030 15 POAD CLASSIFICATION (if applicable) | | 26. ROAD CLASSIFICATION (if applicable) | ON (if applicable) | |
| Choose an item. | | | E Based the Implet | nenting Office of the |
| 16. IMPLEMENTING OFFICE (Record the Implementing Office of the | rd the Implementing Office of t | | FICE (Record the Impler | |
| original projecti | е | Abra District Engineering Unice | ring Office | |
| Abra District Linguisters Abra District Linguisters (PIP) | PLAN (PIP) | 28. PROJECT IMPLEMENTATION PLAN (PIP) | NTATION PLAN (PIP | |
| 17. PROJECT IMPLEMENTATION | | Chart Date | Planned End Date | d Date |
| Planned Start Date | Planned End Date | Planned Start Date | July 6, 2024 | 34 |
| October 2, 2023 | July 6, 2024 | OCCUPIED AP? | 30. UNDER | 30. UNDER WARRANTY? |
| | | NO □ YES | ⊠ NO | □YES |
| | D. ATTACHI | ATTACHMENTS & JUSTIFICATIONS | | |
| 31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects) ☑ NO ☐ YES ☐ N/A | ATTACHED? (For Flood Cor | trol Projects) | | |
| 32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum or a power | (Explain in detail in Bullet poin | it format; minimum o: 2 po | | f wainforced |
| • The increase in u concrete dike ty cost. The steel sl proposed mitiga | mit cost which resulted t pe of flood mitigation str heet piles are necessary to tion and ensure over-all on nassive rock embankmen | The increase in unit cost which resulted to the decrease in the physical larger is the concrete dike type of flood mitigation structure with steel sheet piles consisting of 49.21% 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 42.35% of the project cost contributed to the high unit | s consisting of 49.21 s consisting of 49.21 sible failure along th he project cost contr | % of the project direct e foundation of the ibuted to the high unit |
| cost of the project. The derived unit of | it cost is based on the ap | The derived unit cost is based on the approved Detailed Unit Price Analysis (DUPA) and Program of W | , Analysis (DUPA) a astruction as per me | nd Program of Works morandum dated |
| (POW) with referen September 22, 2023 | 2023. | L. Besisot Submitted by t | he District Engineer | , and the Certificate of |
| • See attached Concerns Reasonablenes | s of Cost Estimates signe | See attached Cross-Section Brawing of the English See attached Cross-Section Brawing of the Regional Director. | 3.00 | |
| | | | | |
| | | | | |
| 33. PHOTOS SUBMITTED | | | | |
| □NO ⊠YES | | | | |
| 34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED | ED PROJECT WORK LOCA | TION SUBMITTED | | |
| □NO ⊠YES | | | | |

| | 35. PREPARED B | 35. PREPARED BY: | |
|-----------|--|------------------|---|
| | Much | Position: | James |
| Name: | | Date: | Click here to enter a date. |
| Office: | THE RESERVE TO SERVE THE PROPERTY OF THE PROPE | | |
| oc BEVIE | 26 REVIEWED BY DISTRICT OFFICE (If Required) | | 38. REVIEWED BY REGIONAL OFFICE |
| SO. NEVIL | | Nama. | 100 T |
| Name: | | Name: | A A A SHITH IN THE RESERVE OF THE SHIP OF |
| Position: | Chief, Planning and Design Section | Position: | Chef, Planning and Jesign Division |
| 2 | | Date: | |
| MMODED FC | 27 BECOMMENDED BY DISTRICT OFFICE (If Required) | | 39. RECOMINENDED BY REGIONAL OFFICE |
| Name: | JOSELITO NARAO | Name: | KHADAFO, TANGGOL |
| Position: | District Angineer | Position: | Regional Director |
| Date: | | Date: | |

| A Category B Category C Category D Impact Connical Coverlapping Sections Consumer in (10), and Barangay Contange in (10), and Barangay Contange in (10), and Consumer in Station Consumer in Station Consumer in Physical Consumer in Physical Project Manuel L. SINGSON Engr. ANTONIO V. SOBREVIÑAS, JR. Engr. MANUEL L. SINGSON Engr. ANTONIO V. SOBREVIÑAS, JR. | | J 9 9 | | 7 () 20 | |
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| A Category B Category C Category D Impact Change in Color Change in (10), Cost Cost | Chief of Programming Division | Position: | inator | CAR-Regional Coord | Position: |
| A Category B Category C Category C Category D Impact Change in (10), Change in Station Change in Physical Target Reviewed by Office of the Undersecretary for Operations Engr. MANUEL L. SINGSON Engr. MANUEL L. SINGSON Engr. MANUEL L. SINGSON Project Manager I Project Manager I Category B - Change in Station Limits Category B - Change in Station Limits Category B - Change in Derating Unit (requires DBM approval) Modification does not comply with DBM Categories Reviewed by Planning Service Name: Peter Paul R. Cortez | the Kank | Signature: | | Anden | Signature |
| A Category B Category C Category C Category D Impact Change in Physical Change in Station Limits Reviewed by Office of the Undersecretary for Operations Engr. MANUEL L. SINGSON Engr. ANTONIO V. SOBREVIÑAS, JR. Category A — Typographical Error Category B — Change in Station Limits of Modification Category D — Change in Operating Unit (requires DBM approval) Modification does not comply with DBM Categories Reviewed by Planning Service | PETER PAUL R. CORTEZ | Name: | CHE | NNA ANDREA M. NO | Name: |
| A Category B Category C Category D Impact Overlapping Sections No such City or Limits Change in Physical Target No such City or Municipality No | Service | d by Planning | Reviewe | | |
| A Category B Category C Category D Impact Overlapping Sections No such requiring a change in (10), cost Change in Physical Target Target Engr. MANUEL L. SINGSON Project Manager III Project Manager II Project Manager III Project Manager II Project Manager III Project Manager III | mits due to non-existing location Unit (requires DBM approval) DBM Categories | ographical Error ange in Station Liange in Location, ange in Operatin ange in Operatin s not comply with | jory A – Typ jory B – Cha jory C – Cha jory D – Cha fication doea | | Category of Modification (please check the appropriate) |
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| A Category B Category C Category D Impact | | rangay City or ality | | | ☐ Typographical error on Project Description |
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