

|                                                                                                            |  |                       |                                         |
|------------------------------------------------------------------------------------------------------------|--|-----------------------|-----------------------------------------|
| P/A/P 1 (001, 002, CSSP, LP):                                                                              |  | Appropriation Source: | FY 2024 GAA                             |
| ORGANIZATIONAL OUTCOME 2 : Protect Lives and Properties Against Major Floods                               |  | UACS:                 | 320102106473000                         |
| P/A/P 2 (Program):                                                                                         |  | Project ID:           | P00825144LZ                             |
| Flood Management Program                                                                                   |  | Region:               | Region V                                |
| P/A/P 3 (Sub-Program):                                                                                     |  | Implementing Office:  | Catanduanes District Engineering Office |
| Construction/ Rehabilitation of Flood Mitigation Facilities within Major River Basins and Principal Rivers |  | Appropriation (Php):  | 50,000,000                              |

Name of Project per GAA:

Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes

Implementing Office Justification for Modification:  
• Increase in unit cost due to inclusion of embankment materials for the crane way.  
• River crossing between rice field with soft and saturated soil which is not safe for heavy equipment.

A.1 ☒ Certificate of Reasonableness of Cost Estimate

B. PER PLANNING SERVICE EVALUATION

B.1 PROJECT MODIFICATION ON PROJECT DESCRIPTION

|         |                                     |                                                        |
|---------|-------------------------------------|--------------------------------------------------------|
| B.1.1   | <input type="checkbox"/>            | Typographical Error/s                                  |
| B.1.2   | <input type="checkbox"/>            | Change in Location (for non-existent locations only)   |
| B.2     | <input checked="" type="checkbox"/> | PROJECT MODIFICATION/ADJUSTMENTS ON PROJECT COMPONENTS |
| B.2.1   | <input checked="" type="checkbox"/> | Change in Targets                                      |
| B.2.2   | <input type="checkbox"/>            | Change in Scope of Work                                |
| B.2.3   | <input type="checkbox"/>            | Change in Component Amount                             |
| B.2.3.1 | <input type="checkbox"/>            | Addition of Component (Including excess amount)        |
| B.2.3.2 | <input type="checkbox"/>            | Deletion of Component                                  |
| B.2.3.3 | <input checked="" type="checkbox"/> | Movement of Funds between Components                   |

C. RESULTANT AFTER MODIFICATION

C.1 ☐ Additional Project Component/s  
C.2 Component/s:

| SCOPE OF WORK |                                            | TARGET                           |      | INCREASE/DECREASE (%) |                  |
|---------------|--------------------------------------------|----------------------------------|------|-----------------------|------------------|
| COMP          | FROM                                       | TO                               | FROM | TO                    | Unit Cost Target |
| CW1           | Construction of Flood Mitigation Structure | Construction of Flood Mitigation | 373  | 311                   | 19.94%           |
| CW2           |                                            |                                  |      |                       | -16.62%          |
| CW3           |                                            |                                  |      |                       |                  |
| CW4           |                                            |                                  |      |                       |                  |

D. AS EVALUATED

D.1 ☒ ALLOWED as per the GAA Provisions  
D.2 ☐ NOT ALLOWED as per the GAA Provisions  
D.3 Remarks (to be filled-up by Planning Service):

The unit cost increased by 19.94% and the target decreased by 16.62%. The request is supported by documents such as Certificate of Reasonableness of Cost Estimate, dated July 8, 2024 of Director Allan S. Borromeo. Construction through Memorandum.

Evaluated By:

ALEX G. BORRERO

Noted By:

CONSTANTE A. LLANES, JR., CESO III

Assistant Secretary, Planning Service and the Legislative Liaison Office

E. Approving Authority as per latest Approved Guidelines on Modification of Allotment under the GAA  
E.1 ☐ Secretary  
E.2 ☒ Undersecretary for Operations

Remarks:  
☐ Recommended for Approval

MANILA CATALINA E. CABRAL, PhD, CESO I  
Undersecretary for Planning and PPP Services



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



MEMORANDUM  
FOR :

ROBERTO R. BERNARDO, CESO I

Undersecretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII, and VIII

This refers to the Memorandum dated June 4, 2024 of Regional Director VIRGILIO C. EDUARTE – DPWH Regional Office V, endorsing the request of OIC-District Engineer DENIS C. CAGOMOC – DPWH Catanduanes DEO, for the approval of Modification of the project under the FY 2024 General Appropriations Act (GAA), to wit:

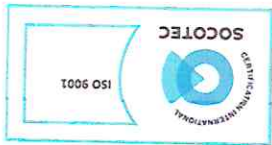
| As per GAA/Original | As Modified |
|---------------------|-------------|
| Project Description |             |

|                                                        |                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UACS:<br>320102106473000<br>Project ID:<br>P00825144LZ | ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties Against Major Floods<br>Construction/Rehabilitation of Flood Mitigation Facilities along Major River Basins and Principal Rivers<br>Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes |
| Physical<br>Target                                     | Physical<br>Target                                                                                                                                                                                                                                                                                    |
| Unit Cost<br>(P'000)                                   | Unit Cost<br>(P'000)                                                                                                                                                                                                                                                                                  |
| Allocation<br>(P'000)                                  | Estimated<br>Cost (P'000)                                                                                                                                                                                                                                                                             |

|                                                                           |                                                                           |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| CW1 –<br>Construction of Flood Mitigation Structure<br>/ Linear<br>meters | CW1 –<br>Construction of Flood Mitigation Structure<br>/ Linear<br>meters |
| 129,357                                                                   | 155,145                                                                   |
| 48,250.00                                                                 | 48,250.00                                                                 |
| 1,750.00                                                                  | 1,750.00                                                                  |
| Total:<br>50,000.00                                                       | Total:<br>50,000.00                                                       |

- Increase in unit cost due to inclusion of embankment materials for the crane way.
- River crossing between rice field with soft and saturated soil which is not safe for heavy equipment.

Attached are the following supporting documents:  
• Certificate of Availability of Funds, Certificate of Reasonableness, Program of Works, Detailed Unit Price Analysis, Geotagged Photos, GIS Map, Project Impact Analysis and Detailed Engineering Design





Having complied with all the documentary requirements under Department Order No. 23, Series of 2023 and other supplemental guidelines, we are respectfully requesting that the abovementioned project under FY 2024 GAA be modified.

For the Undersecretary's favorable consideration.

**NERIE D. BUENO, CESO III**

Assistant Secretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII and VIII

**RECOMMENDING APPROVAL:**



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

Undersecretary for Planning and  
Public-Private Partnership Service

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



**ROBERTO R. BERNARDO, CESO I**

Undersecretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII, and VIII

3.3 CAVM/NDB

Project ID: P00825144LZ



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



MEMORANDUM

FOR :

ROBERTO R. BERNARDO, CESO I

Undersecretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII, and VIII

This refers to the Memorandum dated June 4, 2024 of Regional Director VIRGILIO C. EDUARTE – DPWH Regional Office V, endorsing the request of OIC-District Engineer DENIS C. CAGOMOC – DPWH Catanduanes DEO, for the approval of **Modification** of the project under the FY 2024 General Appropriations Act (GAA), to wit;

| As per GAA/Original | As Modified |
|---------------------|-------------|
| Project Description |             |

|                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UACS: 320102106473000<br>Project ID: P00825144LZ<br>ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties Against Major Floods<br>Construction/Rehabilitation of Flood Mitigation Facilities along Major River Basins and Principal Rivers<br>Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes | ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties Against Major Floods<br>Construction/Rehabilitation of Flood Mitigation Facilities along Major River Basins and Principal Rivers<br>Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| 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 / Linear meters | 129,357           | 48,250.00          | CW1 – Construction of Flood Mitigation Structure / Linear meters | 155,145           | 48,250.00              |
| - 373 Linear meters                                              |                   |                    | - 311 Linear meters                                              |                   |                        |
| EA0                                                              | -                 | 1,750.00           | EA0                                                              | -                 | 1,750.00               |
| Total:                                                           | 50,000.00         |                    | Total:                                                           |                   | 50,000.00              |

Justification based on the attachment of the Implementing Office:

- Increase in unit cost due to inclusion of embankment materials for the craneway.
- River crossing between rice field with soft and saturated soil which is not safe for heavy equipment.

Attached are the following supporting documents.

- Certificate of Availability of Funds, Certificate of Reasonableness, Program of Works, Detailed Unit Price Analysis, Geotagged Photos, GIS Map, Project Impact Analysis and Detailed Engineering Design

Having complied with all the documentary requirements under Department Order No. 23, Series of 2023 and other supplemental guidelines, we are respectfully requesting that the abovementioned project under FY 2024 GAA be modified.

For the Undersecretary's favorable consideration.

**NERIE D. BUENO, CESO III**  
Assistant Secretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII and VIII

**RECOMMENDING APPROVAL:**

**MARIA CATALINA E. CABRAL, Ph.D., CESO I**  
Undersecretary for Planning and  
Public-Private Partnership Service  
  
**APPROVED/DISAPPROVED:**

**ROBERTO R. BERNARDO, CESO I**  
Undersecretary for Regional Operations in NCR,  
Regions III, IV-A, IV-B, V, VI, VII, and VIII

3.3 CAVM/NDB  
Project ID: P00825144LZ  






Cost per lineal meter =  $\frac{P39,307,795.88}{311.00 \text{ lineal meters}}$  = **P126,391.63/lineal meter** (Part G only)

**CW1 - Construction of Flood Mitigation Structure**

| ITEM NO.           | DESCRIPTION                                       | AMOUNT<br>(Total Cost) | PERCENT WEIGHT<br>(%) |
|--------------------|---------------------------------------------------|------------------------|-----------------------|
| <b>CW1</b>         | <b>Construction of Flood Mitigation Structure</b> |                        |                       |
| Part A             | Facilities for the Engineer                       | 99,016.89              | 0.20%                 |
| Part B             | Other General Requirements                        | 535,151.55             | 1.11%                 |
| Part C             | Earthworks                                        | 8,306,995.68           | 17.22%                |
| Part G             | Drainage and Slope Protection                     | 39,307,795.88          | 81.47%                |
| <b>GRAND TOTAL</b> |                                                   | <b>P 48,248,960.00</b> | <b>100.00%</b>        |

**SCOPE OF WORK**

The requested amount of **P50,000,000.00** (inclusive of EAO) for the construction of **311.00 lineal meters** flood control structure along Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes, may be considered reasonable as evaluated subject to updating of cost/price prior to bidding based on the items of work involved and its corresponding quantities as reflected in the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH – Catanduanes District Engineering Office.

Forwarded herewith is the result of the evaluation for the above-mentioned request.

**SUBJECT :** Request for Approval of Modification of Project under FY 2024 GAA: **ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties Against Major Floods Construction/Rehabilitation of Flood Mitigation Facilities along Major River Basins and Principal Rivers**  
P00825144LZ: Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes

**FOR :** Director ALEX G. BOTE  
For Planning Service

**MEMORANDUM**

July 8, 2024



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



The estimated cost of **P126,391.63 per lineal meter** for the construction of flood control structure along Macutal River (Rizal Section) in Barangay Rizal, Baras, Catanduanes, is primarily due to the installation of 5,142.00 lineal meters of sheet piles, and the construction of a revetment. This revetment involves 1,306.66 cubic meters of structural concrete, class A (20.68 MPa at 28 days) and 50,921.09 kilograms of reinforcing steel bars (grade 40). These civil works account for **81.47%** of the total project cost. Considering these are the major items of work for the project, the estimated cost is deemed reasonable as the unit costs of the items involved are within the prevailing cost range of the Department.

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

cc: Undersecretary ADOR G. CANLAS, CESO IV, for Technical Services and Information Management Service  
Undersecretary ROBERTO R. BERNARDO, for Regional Operations in NCR, Regions III, IV-A, IV-B, V, VI, VII, and VIII  
Assistant Secretary NERIE D. BUENO, CESO III, for Regional Operations in NCR, Regions III, IV-A, IV-B, V, VI, VII, and VIII  
Regional Director VIRGILIO C. EDUARTE, DPWH - Regional Office V

6.1.1 FDF/CBC/JTS  
07082024 Modification Catanduanes Macutal.docx  
Ref. No. BOC-6.1-8494/6.1.1-490-02

July 8, 2024

MEMORANDUM

FOR : Director ALEX G. BOTE  
For Planning Service

SUBJECT : Request for Approval of Modification of Project under FY 2024 GAA: ORGANIZATIONAL OUTCOME 2: Protect Lives and Properties  
Against Major Floods  
Construction/Rehabilitation of Flood Mitigation Facilities along  
Major River Basins and Principal Rivers  
P00825144LZ: Construction of Flood Control Structure, Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes

Forwarded herewith is the result of the evaluation for the above-mentioned request.  
The requested amount of **P50,000,000.00** (inclusive of EAO) for the construction of **311.00 lineal meters** flood control structure along Macutal River (Rizal Section), Barangay Rizal, Baras, Catanduanes, may be considered reasonable as evaluated subject to updating of cost/price prior to bidding based on the items of work involved and its corresponding quantities as reflected in the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH – Catanduanes District Engineering Office.

SCOPE OF WORK

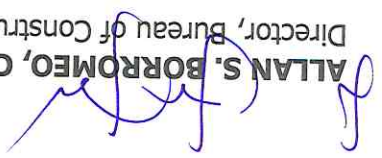
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| Part G   | Drainage and Slope Protection              | 39,307,795.88          | 81.47%                |
|          | GRAND TOTAL                                | P 48,248,960.00        | 100.00%               |

CW1 - Construction of Flood Mitigation Structure

Cost per lineal meter =  $\frac{P39,307,795.88}{311.00 \text{ lineal meters}} = P126,391.63/\text{lineal meter}$  (Part G only)



The estimated cost of **P126,391.63 per lineal meter** for the construction of flood control structure along Macutal River (Rizal Section) in Barangay Rizal, Baras, Catanduanes, is primarily due to the installation of 5,142.00 lineal meters of sheet piles, and the construction of a revetment. This revetment involves 1,306.66 cubic meters of structural concrete, class A (20.68 MPa at 28 days) and 50,921.09 kilograms of reinforcing steel bars (grade 40). These civil works account for **81.47%** of the total project cost. Considering these are the major items of work for the project, the estimated cost is deemed reasonable as the unit costs of the items involved are within the prevailing cost range of the Department.

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

cc: Undersecretary ADOR G. CANLAS, CESO IV, for Technical Services and Information Management Service  
Undersecretary ROBERTO R. BERNARDO, for Regional Operations in NCR, Regions III, IV-A, IV-B, V, VI, VII, and VIII  
Assistant Secretary NERIE D. BUENO, CESO III, for Regional Operations in NCR, Regions III, IV-A, IV-B, V, VI, VII, and VIII  
Regional Director VIRGILIO C. EDUARTE, DPWH - Regional Office V

Asst. Dir. MIP -  
JTS  
CBC  
FDF -

6.1.1 FDF/CBC/JTS  
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Ref. No. BOC-6.1-8494/6.1.1-490-02