

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

Manila



August 15, 2024

#### **MEMORANDUM**

TO

**KHADAFFY D. TANGGOL** 

Regional Director DPWH-CAR

Engineer's Hill, Baguio City

ATTENTION:

**RUBY A. UYAM** 

District Engineer

Lower Kalinga District Engineering Office

Bulanao, Tabuk City, Kalinga

Transmitted herewith are the **APPROVED** requests for the **modification** of hereunder stated projects:

- 1. OO1: Ensure Safe and Reliable National Road System Asset Preservation Preventive Maintenance Tertiary Roads Bulanao-Paracelis Rd, K0508 + 645 K0513 + 1105 - **P125,000,000.00**
- 2. OO1: Ensure Safe and Reliable National Road System Asset Preservation Preventive Maintenance Tertiary Roads Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 K0516 + 000, K0512 + 716 K0513 + 000, K0516 + 415 K0520 + 000, Tabuk City, Kalinga - P150,000,000.00

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.

REY PETER B. GILLE, D.M.

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

2.3 mksa/AVS/RPBG/ERP



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		P/A/	P 2 (Program):		Project ID:	P00	)804228LZ	
		Asset Pre	eservation Program		Region:	Cordillera Ad	dministrative F	Region
		P/A/P	3 (Sub-Program):		Implementing Office:		Kalinga Distric	t
		Preventive Mair	ntenance - Tertiary Roads		Appropriation (Php):		0,000,000	
of Proje	ect per	GAA: (Agbannawag-Malalao-Bulo	Sect) Road, K0514 + 000 -K0	056 ± 000 K0512 ± 71	6 - K0513 + 000 K05	16 ± 415 - V05	520 + 000 To	bul
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Remarks:



### Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

### **OFFICE OF THE SECRETARY**





July 17, 2024

#### **MEMORANDUM**

:

**FOR** 

MANUEL M. BONOAN

Secretary

This Department

This refers to the memorandum dated April 16, 2024, of **DPWH CAR Regional Director KHADAFFY D. TANGGOL**, endorsing the request of **District Engineer RUBY A. UYAM, Lower Kalinga District Engineering Office**, for the **modification** of the project under FY 2024 GAA, to wit;

	As per GAA/Orig			As Modified	
		Project	Description I		
UACS No. 310: Project ID: PO	103101368000 / 0804228LZ /				
OO1: Ensure Safe and Reliable National Road System - Asset Preservation - Preventive Maintenance - Tertiary Roads			OO1: Ensure Sa Preservation - P	fe and Reliable Nationa reventive Maintenance	al Road System - Asse e - Tertiary Roads
Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 -K0056 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga		K0514 + 000´-	RD (Agbannawag-Mala <b>(0516</b> + 000, K0512 (0520 + 000, Tabuk Ci	+ 716 - K0513 + 000	
Type of Work/ Physical Target	Unit Cost	Allocation	Type of Work/ Physical Target	Unit Cost	Estimated Cost
CW1- Preventive Maintenance of Road: Asphalt Overlay/ 27.214 Lane Kilometers	₱ 5,318,953.48/ Lane Kilometer	₱ 144,750,000.00	CW1- Preventive Maintenance of Road: Asphalt Overlay / 8.03063 Lane Kilometers	₱ <b>17,979,203.48</b> / Lane Kilometer  ₱ <b>35.</b> 8	P 144,384,330.87
EAO	_	₱ 5,250,000.00	EAO		₱ 5,250,000.00
	1		EXCESS		₱ 365,669.13
	Total:	₱ 150,000,000.00 ∠		Total:	P 150,000,000.00
Excess to be returned to FS W/m 30 cd					

Page 2 of 3

#### Justification:

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

- The correct physical target for the given station limits based on GAA (K0514+000 K0056+000, K0512+716 - K0513+000 & K0516+415 - K0520+000) is 11.738 lane km.
- From the corrected physical target of 11.738 lane km. is modified to 8.03063 lane km.
- The decrease in the physical target/increase in the unit cost is brought about by the introduction/inclusion of other features of roads particularly Item 624(8)-Solar LED Street Light, Pavement Milling and Pavement Reblocking.
- The change in station limits is to correct the typographical error on the given station limits based on GAA.
- The asphalt overlay project is 50mm thick also includes Solar LED Street Light and Thermoplastic Pavement Markers.
- The utilization of the prevailing construction cost of materials necessary for the completion of all pertinent scopes of work contributed to the variance in unit cost thereon causing a decrease in the target length of the proposed asphalt overlay
- The unit cost has also been evaluated and reviewed by the Bureau of Construction (BOC). The original Php 150,000,000.00 estimated cost was reduced to Php 149,634,330.87 resulting to an excess of Php 365,669.13.
- The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA)

Attached are the following supporting documents: 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, GIS Map and Certification of No overlapping (Certified by the District Engineer, Planning & Design, Construction and Maintenance Division Chief).

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

REY PENER 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 EUGENIO R. PIPO, JR

Undersecretary for Planning

and Public-Private Partnership Services

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

APPROVED/DISAPPROVED:

Department of Public Works and Highways Office of the Secretary

WIN4XW00132

2.3 mksa/MLS/AVS/RPBG/

MANUEL Secretary



## Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION

Engineer's Hill, Baguio City



April 16, 2024

#### **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: ORGANIZATIONAL OUTCOME 1: Ensure Safe and Reliable National Road System - Asset Preservation - Preventive Maintenance — Tertiary Roads-Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 -K0516 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga , under the FY 2024 General

**Appropriations Act.** 

We are respectfully forwarding the Memorandum dated April 15, 2024 from District Engineer Ruby A. Uyam, Lower Kalinga District Engineering Office, regarding the modification of the above project in the amount of **One Hundred Fifty Million Pesos (Php 150,000,000.00)** as indicated below:

s indicated below.						
	FROM	TO				
Project ID	P00804228LZ					
Project Title	Malalao Nat'l RD (Agbannawag- Malalao-Bulo Sect) Road, K0514 + 000 - <b>K0056</b> + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga	Malalao Nat'l RD (Agbannawag- Malalao-Bulo Sect) Road, K0514 + 000 - <b>K0516</b> + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga				
Type of Work	CW1- Preventive Maintenance of Road: Asphalt Overlay	CW1- Preventive Maintenance of Road: Asphalt Overlay				
Physical Target	CW1- 27.214 Lane Kilometers	CW1-8.03063 Lane Kilometer				
Allocation	CW1- Php 144,750,000.00 EAO- Php 5,250,000.00	CW1- Php 144,384,330.87 EAO- Php 5,250,000				
		EXCESS - Php 365,669.13				

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

For the consideration of the Secretary.

KHADAFRY D. TANGGOL

Regional Director

CAR.1 RBP/EFD/JWC/ABM

Website:

% Tel. Nos.: (074) 444-8838 / 444-6460





# Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS LOWER KALINGA DISTRICT ENGINEERING OFFICE

BAGONG PILIPINAS

Bulanao, Tabuk City, Kalinga, Cordillera Administrative Region

April 15, 2024

#### **MEMORANDUM**

FOR

: KHADAFFY D. TANGGOL

Regional Director

**THRU** 

: ANGELITA B. MABITAZAN

Chief, Planning & Design Division

SUBJECT

: Modification CY 2024 GAA — Asset Preservation - Preventive Maintenance - Tertiary Roads - Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 -K0056 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga, Tabuk City, Kalinga, under the FY 2024 General

**Appropriations Act** 

May we submit for review and evaluation the Modification of the project stated below:

FROM	то
Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 -K0056 + 000, K0512 + 716 - K0513 + 000, <b>K0516</b> + 415 - K0520 + 000, Tabuk City, Kalinga	Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 + 000 -K0056 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000, Tabuk City, Kalinga
Physical Target: <b>27.214</b> Lane Kilometer Amount : ₱ 150,000,000.00	Physical Target: 8.03063 Lane Kilometer Amount: ₱ 150,000,000.00

Attached are all Supporting documents based on D.O No. 37, series of 2018 for your ready reference.

For your favorable consideration.

RUBY A. UYAM
District Engineer

CAR 15.1 MAE/ABN/EMJE

SOCOTEC ISO 9001

₩ Website: www.dpwh.gov.ph♥ Tel. No(s).: (074) 627 5494



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



July 3, 2024

#### **MEMORANDUM**

FOR

Undersecretary EUGENIO R. PIPO, JR.

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

**SUBJECT** 

Request for the Approval of Modification of the Project under FY2024 GAA:

Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation Program— Preventive Maintenance — Tertiary Roads

- P00802254LZ: Balbalan Pinukpuk Rd K0516+200 K0518+939, K0519+053 – K0519+759, Pinukpuk, Kalinga
- 2. P00804227LZ: Bulanao Paracelis Rd, K0508+645 K0513+1105, Tabuk City, Kalinga

Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation Program — Preventive Maintenance — Secondary Roads

 P00804225LZ: Mt. Province Bdry – Calanan – Pinukpuk – Abbut Rd (Calanan – Pinukpuk Section), K0512+000 – K0513+398, K0514+000 -K0515+000, K0515+265 – K0518+000, Tabuk City, Kalinga

Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation Program — Preventive Maintenance — Tertiary Roads

- 4. P00804228LZ: Malalao National Road (Agbannawag Malalao Bulo Section), K0514+000 K0516+000, K0512+716 K0513+000, K516+415 K0520+000, Tabuk City, Kalinga
- 5. P00802251LZ: Rizal National Road (Liwan West Babalag Macutay Sect), K0522+(-569) K0522+(-092.871), Rizal, Kalinga

Forwarded herewith are the results of the evaluation for the above-mentioned requests, which was resubmitted to this Office per Memorandum dated June 7, 2024 (Annex "A").

The requested amount of **P517,139,000.00** (inclusive of EAO) for the five (5) asphalt overlay projects was reduced to **P513,962,380.54** (inclusive of EAO) due to corrections made on the utilization of manpower, rental rate of equipment and utilization of material component. Likewise, the items of work involved and corresponding quantities were based





Request for Modification of the Project: 1.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Balbalan – Pinukpuk Rd – K0516+200 – K0518+939, K0519+053 – K0522+7590 2.rganizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Bulanao – Paracelis Rd, K0508+645 – K0513+1105 3.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Secondary Roads – Mt. Province Bdry – Calanan – Pinukpuk – Abbut Rd (Calanan – Pinukpuk Section) K0512+000 – K513+398, K0514+000 – K515+000, K0515+265 – K0518+000, Tabuk City, Kalinga 4.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Malalao Nat'l Rd (Agbannawag – Malalao – Bulo Sect), K0514+000 – K0516+000, K0512+716 – K0513+000, K516+415 – K0520+000, Tabuk City, Kalinga 5.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Rizal Nat'l Rd (Liwan West – Babalag – Macutay Sect), nK0522+(-569) – K0522+(-092.871)

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on the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH - Lower Kalinga District Engineering Office.

#### PROJECT NO.1

The requested amount of **P80,139,000.00** (inclusive of EAO) for the 6.884 lane kilometer of Balbalan – Pinukpuk Rd – K0516+200 – K0518+939, K0519+053 – K0519+759, Pinukpuk, Kalinga, as submitted, was reduced to **P77,625,407.10** (inclusive of EAO) due to the corrections made on the productivity output, manpower components, rental rate of equipment and material component. Likewise, the items of work involved and corresponding quantities were based on the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH - Lower Kalinga District Engineering Office.

#### **SCOPE OF WORK**

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT WEIGHT (%)
Part B	Other General Requirements	Р	249,616.23	0.33%
Part C	Earthworks	Р	24,712.67	0.03%
Part D	Subbase and Base Course	Р	12,240.42	0.02%
Part E	Surface Course	Р	72,644,932.74	96.98%
Part G	Drainage and Slope Protection Structures	Р	1,977,015.79	2.64%
	<b>Grand Total</b>	Р	74,908,517.85	100.00%

Cost per lane kilometer Of Asphalt Overlay (Part E only) <u>P72,644,932.74</u>= **P10,552,721.20 /lane km** 6.884 lane km

The estimated cost of **P10,552,721.20** per lane kilometer is due to the design requirements as reflected in the Approved Detailed Engineering Design Plan for the asphalt overlay, which involves the provision of 0.28 meter thick reblocking of concrete pavement, Bituminous Concrete Surface Wearing Course, Hot-Laid; 50mm thick and Emulsified Asphalt, which accounts to **96.98%** of the total project cost, aggregate subbase course, and reflectorized thermoplastic pavement markings, coupled with recent price escalation and hauling of construction materials at 127.26 km away from the project. Hence, the evaluated cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

Request for Modification of the Project: 1.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Balbalan — Pinukpuk Rd — K0516+200 — K0518+939, K0519+053 — K0522+7590 2.rganizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Bulanao — Paracelis Rd, K0508+645 — K0513+1105 3.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Secondary Roads — Mt. Province Bdry — Calanan — Pinukpuk — Abbut Rd (Calanan — Pinukpuk Section) K0512+000 — K513+398, K0514+000 — K515+000, K0515+265 — K0518+000, Tabuk City, Kalinga 4.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Malalao Nat'l Rd (Agbannawag — Malalao — Bulo Sect), K0514+000 — K0516+000, K0512+716 — K0513+000, K516+415 — K0520+000, Tabuk City, Kalinga 5.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Rizal Nat'l Rd (Liwan West — Babalag — Macutay Sect), nK0522+(-569) — K0522+(-092.871)

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#### **PROJECT NO.2**

The requested amount of **P125,000,000.00** (inclusive of EAO) for the 6.93154 lane kilometer of Bulanao – Paracelis Rd, K0508+645 – K0513+1105, Tabuk City, Kalinga, as submitted, was reduced to **P124,800,928.42** (inclusive of EAO) due to the corrections made on the productivity output, manpower components, rental rate of equipment and material component. Likewise, the items of work involved and corresponding quantities were based on the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH - Lower Kalinga District Engineering Office.

#### SCOPE OF WORK

ITEM NO.	DESCRIPTION	AMOUNT (Total Cost)		PERCENT WEIGHT (%)
Part B	Other General Requirements	Р	463,361.06	0.38%
Part C	Earthworks	Р	806,993.70	0.67%
Part D	Base and Subbase Course	Р	563,239.62	0.47%
Part E	Surface Course	Р	72,735,474.07	60.40%
Part H	Miscellaneous Structures	Р	45,863,827.48	38.08%
	Grand Total	P	120,432,895.93	100.00%

Cost per lane kilometer = Of Asphalt Overlay (Part E only)

<u>P 72,735,474.07</u>= **P10,493,407.54 /lane km** 6.93154 lane km

The estimated cost of **P10,493,407.54** per lane kilometer is due to the design requirements as reflected in the Approved Detailed Engineering Design Plan for the asphalt overlay, which involves the provision of 0.28 meter thick reblocking of concrete pavement, Bituminous Concrete Surface Wearing Course, Hot-Laid; 50mm thick and Emulsified Asphalt, which accounts to **60.40%** of the total project cost, aggregate subbase course, and miscellaneous structures such as reflectorized thermoplastic pavement markings and solar LED street light which accounts to **38.08%** of the total project cost, coupled with recent price escalation and hauling of construction materials at 127.26 km away from the project. Hence, the evaluated cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

#### **PROJECT NO.3**

The requested amount of **P150,000,000.00** (inclusive of EAO) for the 8.13557 lane kilometer of Mt. Province Bdry – Calanan – Pinukpuk – Abbut Rd (Calanan – Pinukpuk Section) K0512+000 – K513+398, K0514+000 -k515+000, K0515+265 – K0518+000, Tabuk City,

Request for Modification of the Project: 1.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Balbalan — Pinukpuk Rd — K0516+200 — K0518+939, K0519+053 — K0522+7590 2.rganizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Bulanao — Paracelis Rd, K0508+645 — K0513+1105 3.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Secondary Roads — Mt. Province Bdry — Calanan — Pinukpuk — Abbut Rd (Calanan — Pinukpuk Section) K0512+000 — K513+398, K0514+000 — K515+000, K0515+265 — K0518+000, Tabuk City, Kalinga 4.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Malalao Nat'l Rd (Agbannawag — Malalao — Bulo Sect), K0514+000 — K0516+000, K0512+716 — K0513+000, K516+415 — K0520+000, Tabuk City, Kalinga 5.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Rizal Nat'l Rd (Liwan West — Babalag — Macutay Sect), nK0522+(-569) — K0522+(-092.871)

Kalinga, as submitted, was reduced to **P149,723,434.31** (inclusive of EAO) due to the corrections made on the productivity output, manpower components, equipment components, and material component. Likewise, the items of work involved and corresponding quantities were based on the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District Engineer, DPWH - Lower Kalinga District Engineering Office.

#### SCOPE OF WORK

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT WEIGHT (%)
Part B	Other General Requirements	Р	358,459.29	0.25%
Part C	Earthworks	Р	994,976.43	0.69%
Part D	Base and Subbase Course	Р	590,310.74	0.41%
Part E	Surface Course	Р	84,257,886.91	58.31%
Part H	Miscellaneous Structures	Р	58,281,480.74	40.34%
	<b>Grand Total</b>	P	144,483,114.11	100.00%

Cost per lane kilometer
Of Asphalt Overlay
(Part E only)

P84,257,886.91 8.13557 lane km P10,356,728.16 /lane km

The estimated cost of **P10,356,728.16** per lane kilometer is due to the design requirements as reflected in the Approved Detailed Engineering Design Plan for the asphalt overlay, which involves the provision of 0.28 meter thick reblocking of concrete pavement, Bituminous Concrete Surface Wearing Course, Hot-Laid; 50mm thick and Emulsified Asphalt, which accounts to **58.31%** of the total project cost, aggregate subbase course, and miscellaneous structures such as reflectorized thermoplastic pavement markings and solar LED street light which accounts to **40.34%** of the total project cost, coupled with recent price escalation and hauling of construction materials at 122.26 km away from the project. Hence, the evaluated cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

#### **PROJECT NO.4**

The requested amount of **P150,000,000.00** (inclusive of EAO) for the 8.03063 lane **kilometer** of Malalao Nat'l Rd (Agbannawag – Malalao – Bulo Sect) Road, K0514+000 – K0516+000, K0512+716 – K0513+000, K516+415 – K0520+000, Tabuk City, Kalinga as submitted, was reduced to **P149,844,012.31** (inclusive of EAO) due to the corrections made on the productivity output, manpower components, and material component. Likewise, the items of work and corresponding quantities were based on the approved Program of Works

Request for Modification of the Project: 1.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Balbalan — Pinukpuk Rd — K0516+200 — K0518+939, K0519+053 — K0522+7590 2.rganizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Bulanao — Paracelis Rd, K0508+645 — K0513+1105 3.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Secondary Roads — Mt. Province Bdry — Calanan — Pinukpuk — Abbut Rd (Calanan — Pinukpuk Section) K0512+000 — K513+398, K0514+000 — k515+000, K0515+265 — K0518+000, Tabuk City, Kalinga 4.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Malalao Nat'l Rd (Agbannawag — Malalao — Bulo Sect), K0514+000 — K0516+000, K0512+716 — K0513+000, K516+415 — K0520+000, Tabuk City, Kalinga 5.Organizational Outcome 1: Ensure Safe and Reliable National Road System — Asset Preservation — Preventive Maintenance Tertiary Roads — Rizal Nat'l Rd (Liwan West — Babalag — Macutay Sect), N0522+(-569) — K0522+(-092.871) — Page 5 of 6

(POW), Detailed Engineering Design Plan, and pertinent documents, duly approved by the District Engineer, DPWH Lower Kalinga District Engineering Office.

#### SCOPE OF WORK

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT WEIGHT (%)
Part B	Other General Requirements	Р	429,404.25	0.30%
Part C	Earthworks	Р	1,323,187.20	0.92%
Part D	Base and Subbase Course	Р	423,784.73	0.29%
Part E	Surface Course	Р	85,521,822.13	59.14%
Part H	Miscellaneous Structures	Р	56,901,273.57	39.35%
	<b>Grand Total</b>	P	144,599,471.88	100.00%

Cost per lane kilometer Of Asphalt Overlay (Part E only) P85,521,822.13 8.03063 lane km = P10,649,453.67 /lane km

The estimated cost of **P10,649,453.67** per lane kilometer is due to the design requirements as reflected in the Approved Detailed Engineering Design Plan for the asphalt overlay, which involves the provision of 0.28 meter thick reblocking of concrete pavement, Bituminous Concrete Surface Wearing Course, Hot-Laid; 50mm thick and Emulsified Asphalt, which accounts to **59.14%** of the total project cost, aggregate subbase course, and miscellaneous structures such as reflectorized thermoplastic pavement markings and solar LED street light which accounts to **39.35%** of the total project cost, coupled with recent price escalation and hauling of construction materials at 127.22 km away from the project. Hence, the evaluated cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

#### **PROJECT NO.5**

The requested amount of **P12,000,000.00** (inclusive of EAO) for the 0.9262 lane kilometer of Rizal Nat'l Rd (Liwan West – Babalag – Macutay Sect) – K0522+(-569) – K0522+(-092.871), Rizal, Kalinga as submitted, was reduced to **P11,968,598.40** (inclusive of EAO) due to the corrections made on the productivity output, manpower components, and material component. Likewise, the items of work and corresponding quantities were based on the approved Program of Works (POW), Detailed Engineering Design Plan, and other pertinent documents, duly approved by the District - Engineer, DPWH Lower Kalinga District Engineering Office.

Request for Modification of the Project: 1.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Balbalan – Pinukpuk Rd – K0516+200 – K0518+939, K0519+053 – K0522+7590 2.rganizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Bulanao – Paracelis Rd, K0508+645 – K0513+1105 3.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Secondary Roads – Mt. Province Bdry – Calanan – Pinukpuk – Abbut Rd (Calanan – Pinukpuk Section) K0512+000 – K513+398, K0514+000 – k515+000, K0515+265 – K0518+000, Tabuk City, Kalinga 4.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Malalao Nat'l Rd (Agbannawag – Malalao – Bulo Sect), K0514+000 – K0516+000, K0512+716 – K0513+000, K516+415 – K0520+000, Tabuk City, Kalinga 5.Organizational Outcome 1: Ensure Safe and Reliable National Road System – Asset Preservation – Preventive Maintenance Tertiary Roads – Rizal Nat'l Rd (Liwan West – Babalag – Macutay Sect), nK0522+(-569) – K0522+(-092.871)

#### SCOPE OF WORK

ITEM NO.	DESCRIPTION		AMOUNT (Total Cost)	PERCENT WEIGHT (%)
Part B	Other General Requirements	Р	146,857.40	1.24%
Part C	Earthworks	Р	248,923.62	2.13%
Part D	Base and Subbase Course	Р	42,914.00	0.37%
Part E	Surface Course	Р	11,057,835.86	94.28%
Part H	Miscellaneous Structures	Р	232,695.55	1.98%
Grand Total		Р	11,729,226.43	100.00%

Cost per lane kilometer Of Asphalt Overlay (Part E only) P11,057,835.56 0.9262 lane km = P11,938,928.81 /lane km

The estimated cost of **P11,938,928.81** per lane kilometer is due to the design requirements as reflected in the Approved Detailed Engineering Design Plan for the asphalt overlay, which involves the provision of 0.28 meter thick reblocking of concrete pavement, Bituminous Concrete Surface Wearing Course, Hot-Laid; 50mm thick and Emulsified Asphalt, which accounts to **94.28%** of the total project cost, aggregate subbase course, and miscellaneous structures such as reflectorized thermoplastic pavement markings and internally illuminated (solar) pavement levelled marker/stud flush type-bi-directional, coupled with recent price escalation and hauling of construction materials at 107.00 km away from the project. Hence, the evaluated cost is considered reasonable as the Unit Costs of the items of work involved are within the range of the prevailing cost of the Department.

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

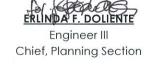
CC: Undersecretary ADOR G. CANLAS, CESO IV, for Technical Services and Information Management Service (IMS)
Assistant Secretary REY PETER B. GILLE, D.M., For Regional Operations in CAR, Regions I, II, IX, X, XI, XII and XIII
Regional Director KHADAFFY D. TANGGOL, DPWH-Cordillera Administrative Region

6.1.1. RIC|CBC|JTS|MIP 06202024\_with PID-Modification-CAR-LKDEO Ref. 6.1-143-7591/DoTs No.6.1.1-428-02

### CHECKLIST PROJECT MODIFICATION

Imple	ementing Office	Lower Kalinga DEO
Proje	ct Name/Location	Organizational Outcome 1: Ensure Safe and Reliable National Road System - Asset Preservation - Preventive Maintenance -Tertiary Roads - Malalao Natl Rd (Agbannawag-Malalao-Bulo Sect) - K0514 + 000 - K0516 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 - K0520 + 000
Proje Proje	ect ID ect Allocation	P00804228LZ UACS Code : 310103101368000 P150,000,000.00
	1. Modification Req	uest Form
7	2. AIP	
7	3. Certificate of Avo	uilability of Funds
	4. Supporting Data	
	a. Road Cor	adition (RBIA Latest Official Database )
	b. Traffic Vol	ume Capacity Ratio (for Widening Projects)
	c. Bridge Co	ndition (BMS Latest Official Database )
	7	& Hydrologic Analysis (for New/Replacement Bridges)
	7	s (for Road Slips )
	7	pact Analysis (for Flood Control Projects)
		an (for Flood Control Projects)
	5. BP 202	
	6. Geotagged Phot	
	a. Hard Cop	
	b. Electronic	the GIS Map
1	_	
	8. ROW Clearance	Overlapping (Certified by DE, Construction and Maintenance Division Chiefs)
	a. District En	cincer
	b. LGU	gilleel
	7	
	9. Environmental CI  a. Not Withir	n a "No Build Zone" (MGB)
	<del></del>	ng Permit (If Applicable-EMB)
	c. CNC/ECC	
NA	100000 10000 10000 1000000	e (not within a Declared Heritage/Cultural Site-NCCA )
70		usonableness (for Projects with Changes in Unit Cost )
	12. Project Details	,
	a. POW	
	b. DUPA	
	c. Plans	
		Coverpage
		Summary of Quantities
		Cross Section Showing Changes (if Applicable )
	d. Materials	
	13. Certificate of Loc	al Government Unit

Checked by:



		A. 6	GENERAL			
<b>1. REGION</b> Cordillera Adminis	1	<b>2. DEO</b> Lower Kalinga Distr	ict Engineering Office	1		E DISTRICT IE DISTRICT)
	B. ORIGINAL PROJECT		C. P	ROPOSED REV	ISED PRO	JECT
4. UACS (Unified A	ccount Code Structur	e as defined in GAA	)			
5. Project Id P00804228LZ						
6. Project Categor OO1: Ensure Safe a	y and Reliable National	Road System				
<b>7. Sub-Program (P</b> Asset Preservation	<b>/A/P)</b> - Preventive Mainten	ance - Tertiary Roac	ds			
8. Operating Unit Central Office			<b>18. Operating Unit</b> Central Office	(Change subje	ct to DBN	l approval)
9. Type of Work (E	Enter Details for all Co	omponents below)	19. Type of Work (E	Enter Details fo	or all Com	ponents below)
Component ID	Type of Work		Component ID	Type of W	ork	
CW1	Preventive Main Asphalt Overlay	tenance of Road:	CW1	Preventive Maintenance of Road: Asphalt Overlay		
Malalao Nat'l RD ( K0514 + 000 - <b>K00</b> 5	RIPTION (as recorded Agbannawag-Malalao 66 + 000, K0512 + 716 20 + 000, Tabuk City, I	-Bulo Sect) Road, - K0513 + 000,	20. PROJECT DESCR Malalao Nat'l RD (A + 000 -K0516 + 000 K0520 + 000, Tabuk	gbannawag-M , K0512 + 716 -	alalao-Bu	lo Sect) Road, K0514
<b>11. ALLOTMENT (I</b> 150,000	<b>P'000)</b> (as recorded in	GAA)	21. REVISED ESTIMATED COST (P'000) (Equal to, or lower than GAA allotment)  150,000  22. CAF (To be obtained from Financial Management office)			nancial
12. PHYSICAL TAR below)	GET (Enter Details for	r all Components	23. PHYSICAL TARG	GET (Enter Deta	ails for all	Components below
Component ID	Target	Target Unit	Component ID	Target		Target Unit
CW1	27.214	Lane Km	CW1	8.03063		Lane Km
13. UNIT COST (Er	nter Details for all Cor	mponents below)	24. UNIT COST (Ent	er Details for	all Compo	nents below)
Component ID	Component Cost (P'000)	Target Unit Cost (P'000/Target Unit)	Component ID	Compone (P'000)	ent Cost	Target Unit Cost (P'000/Target Unit)
CW1	144,750	5,318.953	CW1	144,384.3	3087	17,979.20348
EAO	5,250		EAO	5,250		
			EXCESS	365.6691	3	

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#### 25. PROJECT WORK LOCATION (Must be defined in strict 14. PROJECT WORK LOCATION (Must be defined in strict accordance with DO 65 Series 2014. Also complete "ANNEX A" accordance with DO 65 Series 2014) for National Road projects under OO-1) Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, Malalao Nat'l RD (Agbannawag-Malalao-Bulo Sect) Road, K0514 K0514 + 000 - K0056 + 000, K0512 + 716 - K0513 + 000, + 000 -K0516 + 000, K0512 + 716 - K0513 + 000, K0516 + 415 -K0516 + 415 - K0520 + 000, Tabuk City, Kalinga K0520 + 000, Tabuk City, Kalinga Start X 121.53510 End X 121.5633857 Start X 121.53510 End X 121.55355 Start Y End Y 17.361980 17.35240060 Start Y 17.361980 End Y 17.326070 15. ROAD CLASSIFICATION (if applicable) 26. ROAD CLASSIFICATION (if applicable) Tertiary Tertiary 16. IMPLEMENTING OFFICE (Record the Implementing 27. IMPLEMENTING OFFICE (Record the Implementing Office Office of the original project) of the proposed revised project) Lower Kalinga District Engineering Office Lower Kalinga District Engineering Office 17. PROJECT IMPLEMENTATION PLAN (PIP) 28. PROJECT IMPLEMENTATION PLAN (PIP) **Planned Start Date Planned End Date Planned Start Date Planned End Date** 25/02/2024 22/09/2024 06/05/2024 02/12/2024 29. OVERLAP? 30. UNDER WARRANTY? ⊠ NO **⊠** NO ☐ YES ☐ YES D. ATTACHMENTS & JUSTIFICATIONS 31. PROJECT IMPACT ANALYSIS ATTACHED? (For Flood Control Projects) □ N/A □ NO **⊠** YES 32. TECHNICAL JUSTIFICATION (Explain in detail in Bullet point format; minimum of 2 points) Decrease in physical target for CW1 - Preventive Maintenance of Road: Asphalt Overlay from 27.214 Lane Kilometer to 8.03063Lane Kilometer due to the following: The correct physical target for the given station limits based on GAA (K0514+000 - K0056+000, K0512+716 -K0513+000 & K0516+415 – K0520+000) is 11.738 lane km. From the corrected physical target of 11.738 lane km. is modified to 8.03063 lane km. The decrease in the physical target/increase in the unit cost is brought about by the introduction/inclusion of other features of roads particularly Item 624(8)-Solar LED Street Light, Pavement Milling and Pavement Reblocking. The change in station limits is to correct the typographical error on the given station limits based on GAA. The asphalt overlay project is 50mm thick also includes Solar LED Street Light and Thermoplastic Pavement Markers. The utilization of the prevailing construction cost of materials necessary for the completion of all pertinent scopes of work contributed to the variance in unit cost thereon causing a decrease in the target length of the proposed asphalt overlay The unit cost has also been evaluated and reviewed by the Bureau of Construction (BOC). The original Php 150,000,000.00 estimated cost was reduced to Php 149,634,330.87 resulting to an excess of Php 365,669.13. The derived unit cost is based on the approved Program of Work (POW) with Detailed Unit Price Analysis (DUPA) See also the attached evaluation of the Bureau of Construction on the unit cost of similar type projects. Attached are the following supporting documents: 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, SLD, and GIS Map. 33. PHOTOS SUBMITTED □NO ⊠YES 34. A MAP OF THE PROPOSED PROJECT WORK LOCATION SUBMITTED

35. PREPARED BY: Name: DO B. NGAO-I Position: Engineer II Lower Kalinga District Engineering Office: Date: 36. REVIEWED BY DISTRICT OFFICE (If Required) 38. REVIEWED BY REGIONAL OFFICE Name: Name: ANGELITA B. MABITAZAN Position: & Design Section Position: Chief, Planning and Design Division Date: Date: 37. RECOMMENDED BY DISTRICT OFFICE (If Required) 39. RECOMMENDED BY REGIONAL OFFICE RUBY A. UYAM Name: Name: TANGGOL Position: District Engineer Regional Director Position: Date: Date:

<b>UACS</b> (Unified Acc 310103101368000	ount Code Structure as de	fined in GAA)			
Project Id P00804228LZ					
	40. DPWH OFFI	CE OF THE UNDERSEC	RETARIE	S FOR OPERAT	TIONS
Primary Reason fo	or Request (based on Categ	gory of Modification):	(choose	one)	
Category A	Category B	Category C	Catego	ory D	Impact
☐ Typographical error on Project Description	<ul><li>Overlapping Sections</li><li>Change in Station Limits</li><li>Change in Physical Target</li></ul>	☐ No such  Barangay  ☐ No such City or  Municipality	rec	ange in (IO), quiring a ange in the U)	<ul> <li>□ No change or decrease in unit cost</li> <li>□ 20% or less increase in unit cost</li> <li>□ &gt; 20% increase in unit cost</li> </ul>
	Reviewed b	y Office of the Under	secretary	for Operatio	ns
Name:	Engr. MANUEL L/SINGSO	N	En	gr. ANTONIO	V. SOBREVIÑAS, JR.
Signature				$\nearrow$	4/
Position:	Project Manager I		Pro	oject Manager	1111
Date:	7/18/24				7/17/24
		41. DPWH PLANNIN	NG SERVI	CE	
Category of Modification (please check the	fication appropriate)    Catego  Catego  Catego	ory A – Typographical I ory B – Change in Stati ory C – Change in Loca ory D – Change in Oper cation does not comp	on Limits tion, due rating Un	to non-existir it (requires DE	BM approval)
		Reviewed by Plann	ing Servi	ce	
Name:	ANNA ANDREA M. NOCH	IE Name	: PE	TER PAUL R. C	CORTEZ
Signature	Anden	Signat	ure:	fen	by
Position:	Regional Coordinator Position		on: Old	n: OIC - Chief of Programming Division	
Date:	815124	Date:			

### ANNEX A: Project Work Location Details for National Roads

Component ID	Section ID	Start Limit LRP + Disp	End Limit LRP + Disp	Start Chainage	End Chainage	Length (m)	Type of Work	Detail Scope of Work	Target Unit	Physical Target
P00804228LZ - CW1	S00600LZ	K0514 + 000	K0516 + 000	3091	5091	2000	Preventive - Maintenance of Road: Asphalt - Overlay	Asphalt Overlay 50mm with Correction, Solar Studs, Pavement Markings	Lane - Kilometer	4
		K0512 + 716	K0513 + 000	1807	2091	284				0.568
		K0516 + 415	K0520 + 000	5506	9091	3585				3.46263