



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

12 May 2017

**MEMORANDUM**

**FOR : MARK A. VILLAR**  
Secretary  
This Department

Respectfully submitted is the Memorandum dated 04 March 2017 of **Assistant Regional Director ZENAIDA T. TAN**, for and in the absence of the Regional Director of DPWH-XI, requesting for approval of the Modification of Project to be implemented by the said region under the FY 2017 GAA in the prescribed form (2017, version 2.1), to wit:

FROM	TO
<p><b>MFO 1 – National Road Network Services: Network Development - Construction of By-Passes/ Diversion Roads, including ROW</b></p> <p>Construction of Concrete Road – Mati-Tarragona By-Pass (Tagabakid-Lucatan Road), including ROW, Davao Oriental</p> <p><b>Allocation :</b> <b>Total = P 200.00 Million</b> Construction of Concrete Road = P186.364 Million ROW Acquisition = P13.636 Million <b>Physical Target :</b> Construction of Concrete Road = 10.767 lane km ROW Acquisition = 5,454.55 sq.m. <b>Unit Cost :</b> Construction of Concrete Road = P17,308,813.97/lane km ROW Acquisition = P2,499.93/sq.m.</p>	<p><b>MFO 1 – National Road Network Services: Network Development - Construction of By-Passes/ Diversion Roads, including ROW</b></p> <p>Construction/Improvement of Mati-Tarragona Bypass Road (Tagabakid-Lucatan Road) including ROW, Davao Oriental</p> <p><b>Allocation :</b> <b>Total = P 200.00 Million</b> Construction of Asphalt Road = P73,946,741.55 Construction of Road Slope Protection = P 112,417,258.45 ROW Acquisition = P13.636 Million <b>Physical Target :</b> Construction of Asphalt Road = 1.060 lane km Construction of Road Slope Protection = 7,142 sq.m. ROW Acquisition = 5,454.55 sq.m. <b>Unit Cost :</b> Construction of Asphalt Road = P69,761,076.93/lane km Construction of Road Slope Protection = P15,740.31/sq.m. ROW Acquisition = P2,499.93/sq.m.</p>

## **JUSTIFICATION:**

Due to considerable amount for massive embankment (maximum of 13m, see attached cross section detail) the physical target was shortened as reflected in the FY 2017 GAA. The original alignment of the road is along a very mountainous area/terrain wherein if disturbed, will be highly susceptible to landslide due to its soil properties. The design will require a huge allocation, hence, would be uneconomical and more costly. In addition, the area where the proposed original alignment is located is along a disputed area and at the same time, there is presence of MILF camps. As such, the alignment of the road was shifted from said mountainous area to the coastal area. With this new alignment of the road, there is a need for said massive embankment, hence, decrease in physical target by 9.373 lane km from 10.767 lane km to 1.030 lane km.

The main scope of work for the road project is embankment works inasmuch as it is along a coastal area. Concreting of the road was not considered for the design due to the anticipation of settlement of the ground (embankment works) which will result damage to the concrete pavement. In order that said embankment will not be eroded by run-off waters, there is a need to pave the road and provide drainage for safety purposes. As such, the road was designed to be constructed with asphalt pavement instead of concreting. The cost for construction of asphalt is cheaper than the cost for the needed design for concreting. Hence, the change in type of work.

The new road alignment requires slope protection, hence, with additional project component. There is considerable cost for slope protection due to the design used (seawall and rubble concrete, see attached typical detail).

Attached are the required documents, such as Evaluation Form (2017 version 2.1), Program of Work (POW), Detailed Unit Price Analysis (DUPA), Location Map, Geotagged Photos, BP202 and Certificate of Availability of Funds(CAF).

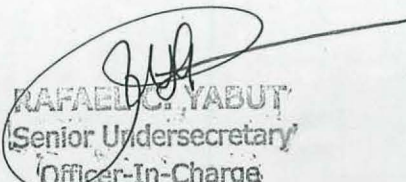
In view of the above, the request for Modification of the Project is respectfully recommended for consideration and approval.

  
**DIMAS S. SOGUILON, CESO II**

Assistant Secretary for Mindanao Operations

## **APPROVED/DISAPPROVED:**

**MARK A. VILLAR**  
Secretary

  
**RAFAEL C. YABUT**  
Senior Undersecretary  
Officer-In-Charge

