



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

NOV 20 2020  
MEMORANDUM

FOR : MARK A. VILLAR  
Secretary

Respectfully forwarded is the memorandum dated March 03, 2020 of ROSELLER A. TOLENTINO, Regional Director, DPWH-REGION IIT, requesting for the modification of project under the FY 2020 GAA, to wit:

As per GAA/Original		As Modified	
<b>Project Description</b>			
<b>UACS No.</b> 300106200313000			
<b>Project ID:</b> P00448890LZ			
Local Program		Local Program	
Flood Control and Drainage – Flood Control Structures / Facilities – Construction / Repair / Rehabilitation / Improvement of Various Infrastructure including Local Projects		Flood Control and Drainage – Flood Control Structures / Facilities – Construction / Repair / Rehabilitation / Improvement of Various Infrastructure including Local Projects	
Construction / Rehabilitation / Construction of Flood Control Structures along Rio Chico River, Sta. 4 + 000 – Sta. 4 + 797.60, Brgy. Macarse, Zaragoza, Nueva Ecija		Construction / Rehabilitation / Construction of Flood Control Structures along Rio Chico River, Sta. 4 + 000 – Sta. 4 + 480.25, Brgy. Macarse, Zaragoza, Nueva Ecija	
<b>Physical Target</b>	<b>Unit Cost</b>	<b>Physical Target</b>	<b>Unit Cost</b>
CW-1 – Construction of Flood Mitigation Structures/ 797.60 Lineal Meters	<del>₱ 181,481.95</del> / Lineal Meters	CW-1 – Construction of Flood Mitigation Structures/ 480.25 Lineal Meters	<del>₱ 301,405.52</del> / Lineal Meters
EAO	-	EAO	-
<b>Total:</b> ₱ 150,000,000		<b>Total:</b> ₱ 150,000,000	
<b>Justification:</b>			
<ul style="list-style-type: none"><li>Decreased in physical target from 797.6 lineal meters to 480.25 lineal meters. Corresponding changes on target was due to consideration of a Z-type steel sheet pile (MHZ36-1 – Item 1717(2)a1) which have a reasonably higher unit price than that of a Type II steel sheet pile. Moreover, approved DED specifies a typical 15m long sheet pile which deviates from the 9 meter sheet piles in the derivation of the standard unit cost.</li><li>As a result from using a Z-type steel sheet pile, unit cost for the said Flood Mitigation Structure increased from ₱181,481.95 per lineal meter to ₱301,405.52 per lineal meter (i.e. 39.79%). With the specification and addition length of sheet piles, the said structure will now be able to properly mitigate/control and withstand the effects of degradation/scouring on the river bank of the said river.</li><li>The required length for the sheet pile was re-designed to 15m due to the data gathered on the maximum current flow of the Rio Chico River. Since the maximum capacity length of the original sheet pile (i.e. U-type Sheet pile) was only limited to 12 meters, the said Flood Mitigation Structure was re-designed using a Z-type sheet pile (MHZ36-1) which was capable to withstand the current flow of the river at 15 meters vertical length. Furthermore, difference in weight of U-type and Z type sheet pile varies from 48 kg/m and 118.7kg/m respectively. With this additional specification, it was clearly emphasized that the new design is more adequate to properly function and prevent the effects of scouring on the river bank of the said river.</li></ul>			

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

RAFAEL YABUT  
Senior Undersecretary  
Undersecretary for Operations  
in Regions I, II, III, IV-A, V and CAR

APPROVED/DISAPPROVED:

MARK A. VILLAR  
Secretary

2.1 ETP/MLS

Department of Public Works and Highways  
Office of the Secretary



WINOC04105