

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Manila

OFFICE OF THE SECRETARY

May 29, 2017

MEMORANDUM

FOR :

MARK A. VILLAR

Secretary

This Department

This refers to the memorandum dated 23 May 2017 of **DPWH Region V OIC-Assistant Director ESMERALDO S. SARMIENTO**, requesting for the **modification** of the hereunder stated project:

	Project I	Description	Physical Ta	arget / Cost
Location	as per GAA UACS: 165003015300241	as modified	per GAA/Original	as modified
	MFO-1 National Road Network Services: Network Development - Construction of By-Passes/ Diversion Roads, including ROW, Sorsogon City Coastal By- Pass Road incl ROW and	MFO-1 National Road Network Services: Network Development - Construction of By-Passes/ Diversion Roads, including ROW, Sorsogon City Coastal By- Pass Road incl ROW and	CW-1 Construction of Concrete Road: 4.308 Lane-km CW-2 Construction of Gravel Road: 2.08 Lane-km CW-3 Construction Concrete Bridge: 549 Sq.m. ROW Acquisition: 5862.5 Sq.m.	CW-1 Construction of Asphalt Road: 12.88 Lane-km CW-2 Construction of Concrete Road: 0.43628 Lane-km CW-3 Construction Two (2) Concrete Bridges: 1,337.40 Sq.m.
	Bridge, Sorsogon	Bridge, Sorsogon	Unit Cost:	Unit Cost:
Sorsogon 1 st Lagislative District	(Construction of Concrete Road)	(Construction of Asphalt Road)	CW-1 Construction of Concrete Road: P23,212.628/ Lane-km	CW-1 Construction of Asphalt Road: P16,357.094/ Lane-km
	(Construction of Gravel Road)	(Construction of Concrete Road)	CW-2 Construction of Gravel Road: P28,846.154/	CW-2 Construction of Concrete Road: P17,959.838/ Lane-km
	(Construction of Concrete Bridge)	(Construction of Two (2) Concrete Bridges)	Lane-km CW-3 Construction Concrete Bridge: P218.579/Sq.m.	CW-3 Construction Two (2) Concrete Bridges: P60.928T/Sq.m.
	(ROW Acquisition)		ROW Acquisition: P3.412/Sq.m.	
			Allocation:	Estimated Cost:
			PhP 300M	PhP 300M

Justification: Modification is requested due to the change in physical target and component cost, viz;

 CW1 - Construction of Concrete Road to Construction of Asphalt Road: Change in the scope of work and increases in physical target.

> The construction of asphalt/flexible pavement is adopted instead of concrete pavement. The project road is not yet suitable for concrete paving due to the anticipated slight settlement of the embankment materials considering that it is on top of a rock causeway.

Decrease in unit cost was based on approved POW/DUPA using the prevailing construction cost of materials in the area. The increase in physical target is due to the inclusion of jogger's lane (2-lanes at 3.50m width each). It is an essential feature for the coastal road/boulevard and will function as a park and leisure area.

- CW2 Construction of Gravel Road to Concrete Road: Change/decrease in physical target is due to the new shorter alignment of the access road leading to the construction site for utilization of equipment and workers.
 - Change in the scope of work from gravel to concrete: Rigid pavement was adopted to be resilient to heavy loads (e.g. construction equipment) and will serve as alternate route after the completion of project.
 - Decrease in unit cost is based on approve POW/DUPA using the prevailing cost of construction materials for concrete road.
- CW3 Construction of Concrete Bridge: The original project calls for a 1 unit bridge only (Bypass Bridge-A).
 The increase in physical target is due to the inclusion of the Bypass Bridge -B to replace the existing RCBC, thus, providing wider waterway to prevent clogging during heavy rains/flooding.
 - The decrease in the unit cost is based on the approved POW/DUPA using the prevailing cost of construction materials for concrete bridge on bored piles.
- RROW the allocation for RROW is deleted since the section to be opened with RROW Acquisition will not be implemented this year, but on succeeding years.

Based on our evaluation, the submitted request for modification of the said project is in order; hence, approval he<u>reof</u> is recommended.

ROMEO S. MOMO, CESO I Undersecretary for Luzon Operations

APPROVED/DISAPPROVED:

MARK A. VILLAR

Secretary

NOTE: Copies of the approved project modification requests are forwarded to the Office of Undersecretary Maria Catalina E. Cabral, PhD, CESO I.

2.4 mksa/AVS/ERP/RSM

Department of Public Works and Highways Office of the Secretary

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May 29, 2017

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MARK A. VILLAR

Secretary

This Department

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	(Construction of Concrete Bridge) (ROW Acquisition)		CW-3 Construction Concrete Bridge: P218.579/Sq.m. ROW Acquisition: P3.412/Sq.m.	CW-3 Construction Two (2) Concrete Bridges: P60.928T/Sq.m. Estimated Cost:
			PhP 300M	PhP 300M

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 The increase in physical target is due to the inclusion of the Bypass Bridge -B to replace the existing RCBC, thus, providing wider waterway to prevent clogging during heavy rains/flooding.

The decrease in the unit cost is based on the approved POW/DUPA using the prevailing cost of construction materials for concrete bridge on bored piles.

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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.

ROMEOS. MOMO, CESO J Undersecretary for Luzon perations

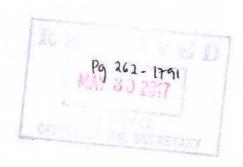
APPROVED/DISAPPROVED:

MARK A. VILLAR

Secretary

NOTE: Copies of the approved project modification requests are forwarded to the Office of Undersecretary Maria Catalina E. Cabral, PhD, CESO I.

2.4 mksa/ WS/ERP/RSM





Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGIONAL OFFICE V

Regional Government Center, Rawis, Legaspi City

May 23, 2017

MEMORANDUM

FOR

: Secretary MARK A. VILLAR

This Department

THRU

: Undersecretary ROMEO S. MOMO, CESO I

Undersecretary for Regional Operations

SUBJECT

: Modification Request for Project included under the FY 2017

GAA (RA 10924) within Sorsogon 1st Legislative District for Regional

Office V Implementation

We are submitting the proposed modification of One (1) project under MFO-1 National Road Network Development, Construction of By-Passes/ Diversion Roads, including ROW, included in FY 2017 DPWH Infrastructure Program based on General Appropriations Act (GAA) RA 10924, for Regional Office implementation, viz.:

	FROM			ТО		
	ORIGINAL LOCATION			RECOMMENDED NEW	PROJECT TITLE	
PAP/ UACS Code No./ Project Component ID	Name/Location of Project	Physical Target	Allocation ('000)	Name/Location of Project	Physical Target	Allocation ('000)
1. Network Devel	toad Network Services topment of By-Passes/Diversion Roads,			I - PROGRAM MFO 1 - National Road Network Services 1. Network Development a. Construction of By-Passes/Diversion Roads, including ROW		
165003015300241				Sorsogon City Coastal By-Pass Road incl Bridges, Sorsogon		
P00109546LZ-CW1	Construction of Concrete Road - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	4.308 lane km	100,000		12.88 lane km	210,679.37
P00109546LZ-CW2	Construction of Gravel Road - Sorsogon City Coastal By- Pass Road Incl ROW and Bridge, Sorsogon	2.08 lane km	60,000	(P00109546LZ-CW2) Construction of Concrete Road (Access Road)	.43628 lane km	7,835.51
P00109546LZ-CW3	Construction of Concrete Bridge - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	549 Sq. meters	120,000	(P00109546LZ-CW3) Construction of 2 Concrete Bridges (Bypass Bridge 1-Phase 1 and Bypass Bridge 2)	1337.4 Sq. meters	81,485.10
P00109545LZ-ROW	ROW Acquisition - Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon	5863 Sq. meters	20,000			
	TOTAL		300,000			300,000.000

Attached are accomplished Evaluation Form for Modification, Approved Program of Work, Certificate of Availability of Funds, and Straight Line Diagram in support to the request.

For consideration and favorable action.

ESMÉRALDO S. SARMIENTO OIC, Assistant Regional Director

ROS.1 LBD/EMV/VAM/MNL

Form for Evaluation of Modification Request (2017, version 2.1)

1. REGION			2. DEO	100	. LEGISLATIVE	5055 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Region V			Sorsogon 1st DEO	5	orsogon 1st Legi	
	B. ORIGI	NAL PRO	ECT		C. NEW	PROJECT
4. UACS (Unified Acc 165003015300241	count Code Str	ructure as de	efined in GAA)	18. UACS (to be ent 165003015300241	tered only upon ag	oproval of realignment)
5. Project ID P00109546LZ Component ID(s) P00109546LZ-CW1, P00109546LZ-ROW	P00109546L	Z-CW2, P0	0109546LZ-CW3,	P00109546LZ Component ID(s)	(to be entered on	oon approval of realignment) ly upon approval of realignment) W2, P00109546LZ-CW3
6. Project Categor	The second secon	Services		20. Project Catego MFO-1 National Ro	The second	vices
7. Thrust Network Developm Roads, including RO		action of By	y-Passes/ Diversion	21. Thrust Network Developm Roads, including RO		on of By-Passes/ Diversion
8. Type of Work (E	nter Details fo	or all Compo	nents below)	22. Type of Work	(Enter Details for	all Components below)
Component ID	Туре	of Work		Component ID	Type of Wor	k
P00106018LZ-CW1	01.8.5		oncrete Road	P00106018LZ-CW1		of Asphalt Road
P00106018LZ-CW2	Constr	uction of G	ravel Road	P00106018LZ-CW2	Construction	of Concrete Road
P00106018LZ-CW3	Constr	uction of C	oncrete Bridge	P00106018LZ-CW3	Construction	of Concrete Bridge:
P00106018LZ-ROW		cquisition				dge 1- Phase I, Bypass Bridge 2)
				22 PROJECT PEC		
9. PROJECT DESCR Construction of Con	The state of the s		SAA]	23. PROJECT DESC		new project] iogger's lane and bike lane-
Construction of Gra				Construction of Con		
Construction of Con	crete Bridge	-		Construction of Two	o (2) Concrete B	ridges
ROW Acquisition –				Sorsogon City Coast	tal By-Pass Road	incl Bridges, Sorsogon
Sorsogon City Coast	al By- Pass R	oad incl RC	OW and Bridge, Sorsogon			
10. ALLOCATION (recorded in GAA) 300,000	P'000) (as		GATION (This must be confirm there are no s) NO	24. ESTIMATED CO 300,000	OST (P'000)	25. CAF (To be obtained from Financial Management office) XYES
12. PHYSICAL TAR	GET (Enter De	etails for all	Components below)	26. PHYSICAL TAR	GET (Enter Detai	Is for all Components below)
Component ID	Target		Target Unit	Component ID	Target	Target Unit
P00106018LZ-CW1	4.308		Lane Km	P00106018LZ-CW1	12.88	Lane Km
P00106018LZ-CW2	2.08		Lane Km	P00106018LZ-CW2	0.43628	Lane Km
P00106018LZ-CW3	549		Square Meters (m2)	P00106018LZ-CW3	1,337.40	Square Meters (m2)
P00106018LZ-ROW	5862.5		Square Meters (m2)			
13. UNIT COST (Ent	er Details for	all Compone	ents below)	27. UNIT COST (En	ter Details for all (Components below)
Component ID	Compone (P'000)		Unit Cost (P'000)	Component ID	Component (P'000)	
P00106018LZ-CW1	100,000		P 23,212.628/ Lane Km	P00106018LZ-CW1	210,679.375	P 16,357.0943/ Lane Km
P00106018LZ-CW2	60,000		P 28,846.154/ Lane Km	P00106018LZ-CW2	7,835.518	P 17,959.838 / Lane K
00106018LZ-CW3	120,000		P 218.579/Square Meters	P00106018LZ-CW3	81,485.107	P 60.928/ Square Meters

14. PROJECT LOCATION (Must be defined in strict accordance with DO is Series 2014)		28. PROJECT LOCATION (Must be defined in strict accordance with DO 65 Series 2014)				
Sorsogon 1st Legislative Dis Road incl ROW and Bridge,	strict - Sorsogon City Coastal By- Pass Sorsogon	Sorsogon 1st Legislative District - Sorsogon City, Sorsogon - Sorsogon City Coastal By- Pass Road incl Bridges, Sorsogon				
Start X	End X	Start X 12°58′18.21″	End X 12°58′07.23″			
Start Y	End Y	Start Y 124°01′12.33" End Y 124°01′31.56				
15. ROAD CLASSIFICATION	ON (if applicable)	29. ROAD CLASSIFICATIO	N (if applicable)			
16. IMPLEMENTING OFFICE (Record the Implementing Office of the original project) Regional Office V		30. IMPLEMENTING OFFICE (Record the Implementing Office of the new project) Regional Office V				
17. PROJECT IMPLEMENT	TATION PLAN (PIP)	31. PROJECT IMPLEMENT	ATION PLAN (PIP)			
Planned Start Date 24 April 2017 Planned End Date 24 April 2018		Planned Start Date 24 April 2017	Planned End Date 24 April 2018			
		32. OVERLAP?				
		33. WARRANTY N/A				
	D. EVALUATION	N & JUSTIFICATION				
		N & JUSTIFICATION RVATION (ROADS)				
34a. Existing Surface Type (ASSET PRESE	N & JUSTIFICATION RVATION (ROADS)	N/A			
34a. Existing Surface Type (34b. Roughness (IRI) (from	ASSET PRESER		N/A N/A			
60000000000000000000000000000000000000	ASSET PRESER					
34b. Roughness (IRI) (from	ASSET PRESER from RBIA) RBIA)		N/A			
34b. Roughness (IRI) (from	ASSET PRESER from RBIA) RBIA) ASSET PRESER	RVATION (ROADS)	N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA)	ASSET PRESER from RBIA) RBIA) ASSET PRESER from BMS)	RVATION (ROADS)	N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f	ASSET PRESERTION RBIA) RBIA) ASSET PRESERTION BMS) NR) (from BMS)	RVATION (ROADS)	N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f	ASSET PRESER from RBIA) RBIA) ASSET PRESER from BMS) NR) (from BMS) NETWORK	RVATION (ROADS) VATION (BRIDGES)	N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f 34e. Bridge Needs Ratio (BI	ASSET PRESERTIFOM RBIA) RBIA) ASSET PRESERTIFOM BMS) NR) (from BMS) NETWORK	RVATION (ROADS) VATION (BRIDGES)	N/A N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f 34e. Bridge Needs Ratio (BP 34f. Existing Surface Type (f 34g. Volume Capacity Ratio	ASSET PRESERTIFOM RBIA) RBIA) ASSET PRESERTIFOM BMS) NR) (from BMS) NETWORK	RVATION (ROADS) VATION (BRIDGES)	N/A N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f 34e. Bridge Needs Ratio (BP 34f. Existing Surface Type (f 34g. Volume Capacity Ratio 34h. Endorsement of Region	ASSET PRESER from RBIA) ASSET PRESER from BMS) NR) (from BMS) NETWORK from RBIA)	RVATION (ROADS) VATION (BRIDGES)	N/A N/A N/A N/A N/A			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f 34e. Bridge Needs Ratio (BP 34f. Existing Surface Type (f 34g. Volume Capacity Ratio 34h. Endorsement of Region	ASSET PRESER from RBIA) ASSET PRESER from BMS) NR) (from BMS) NETWORK from RBIA) (VCR) (from RBIA) nal Development Council (RDC) echnical Studies for Bridges	RVATION (ROADS) VATION (BRIDGES)	N/A N/A N/A N/A N/A N/A RDC Endorsed			
34b. Roughness (IRI) (from 34c. RoCOND (from RBIA) 34d. General Bridge Type (f 34e. Bridge Needs Ratio (BP 34f. Existing Surface Type (f 34g. Volume Capacity Ratio 34h. Endorsement of Region	ASSET PRESER from RBIA) ASSET PRESER from BMS) NR) (from BMS) NETWORK from RBIA) (VCR) (from RBIA) nal Development Council (RDC) echnical Studies for Bridges	RVATION (ROADS) VATION (BRIDGES) DEVELOPMENT	N/A N/A N/A N/A N/A N/A RDC Endorsed			

35. JUSTIFICATION

Modification is requested due to the change in physical target and sub-component cost, viz;

 CW1 – Construction of Concrete Road to Construction of Asphalt Road Change in the scope of work and increase in physical target.

Increase in physical target due to change in scope of work along the carriageway from "construction of concrete pavement" to "construction of asphalt/flexible pavement" since the project road is not yet suitable for concrete paving due to anticipated settlement of the embankment materials considering that it is on top of a rock causeway.

The project also includes jogger's lane (2-lanes at 3.50 m width each), which is an essential feature for a coastal road/boulevard. This will function as a park and leisure area

Decrease in unit cost was based on approved POW/DUPA using the prevailing construction cost of materials in the area..

2. CW2 - Construction of Gravel to Concrete Road

Rigid pavement was adopted for the construction of access road leading to the construction site to be resilient to heavy loads (e.g. construction equipment) and will serve as alternate route after the completion of project, hence the decrease in physical target.

The original proposed gravel road is the road opening part of the project but will not be implemented this year to give priority to the completion of rock causeway' road component.

Decrease in unit cost is based on approved POW/DUPA using the prevailing cost of construction materials for concrete road.

3. CW3 - Construction of Concrete Bridge.

The original project is for a 1 unit bridge only (Bypass Bridge 1). The increase in physical target is due to the inclusion of the Bypass Bridge 2, to replace the existing RCBC, providing wider waterway to provide access to fishermen's banca as requested by local fisherfolks and to prevent flooding in the area.

The decrease in the unit cost is based on the approved POW/DUPA using the prevailing cost of construction materials for concrete bridge on bored piles.

4. RROW – The allocation for RROW is deleted since the section to be opened with RROW Acquisition will not be implemented this year, but on succeeding years.

36. GEOTAGGED F	PHOTOS SUBMITTED ⊠ NO □ YES	
37. EVALUATED B	ESTER M. VARGAS, Chief, PPS-RO	38. DATE: 5/23/2017
	E. REVIEW AND APPROVAL	
REVIEWED:	MARILOUN LACUNA, Chief of Planning and Design Division	DATE: 5/23/2017
RECOMMENDED:	ESMERALDO S. SARMIENTO, OIC-Assistant Regional Director	DATE: 5/23/2017
NOTED:		DATE:
ENDORSED / APPROVED:		DATE:



(2) (C) (C) (C)	STANDARD BY	Petros Traction Control Con	ALCOHOLD STREET
DDA	CRAB	A OF INCOME	I DILIDOFT COCT
PK	UGKAI	VI OF WURK	/ BUDGET COST

		OGRAM OF WOR	RK / BUD	GEI COSI			7
Name of Pro	ject: Construction of By-Passes/ Diversion Roads, in ROW - Sorsogon City Coastal By-Pass Road incl	cluding ROW and	\$ 5 at 15 at	Roadbed Width:		25.0 14.7	
Loosit	Bridge, Sorsogon		7.2	Bridge Width:	美美元在 公司	20.	84
Location: Appropriation	Sorsogon 1st Legislative District			Type of Superstructure: Bypas Type of Superstructure: Bypas		Flat 9	
Source of Fu	ind: GAA FY - 2017			Type of Substructure:	10000000000000000000000000000000000000	Bored	
Classification Limits: Road				No. of Span/Abut.: Bypass Brid No. of Span/Abut.: Bypass Brid	ge 1	5/	
	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)			No. of Piers: Bypass Bridge 1	ige 2	4	
Limits: Bridg	e Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)			No. of Piers: Bypass Bridge 2		n/	
Net Length:	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2) 1.7225 km (Road) - (2.975 lane km; 0.21814 km	(Access Road) - 0.4	43628 lan	No. of Cal. Days to Complete		330 (c.D.
	60.60 l.m. (Bypass Bridge 1) - 1262.90 sq.m.; 13	3.50 (Bypass Bridge	e 2) - 281	.34 sq.m.			
Facilities for	Description of Work to be Done the Engineer	% of Tota 0.40		- Annabas	EQUIPMENT	NUM	RER
General Req		0.24		TYPE		NEEDED	AVAILABLE
Earthworks Bridge Const	truction	2.91 39.30		Backhoe/Payloader/Generator S Dump Truck/Motorized Road Gra		1/1/1/2 3/1	
Subbase and	Base Course	3.81		Vibratory Roller/Concrete Vibrat	or/Bulldozer	1/2/1	
Surface Cou	rse d Slope Protection Structures	28.20		Water Truck/Plate Compactor/Bar Bender/Bar Cutter/Drop Han	atching Plant	1/1/1	
Miscellaneo	us Structures	14.68		Truck Mounted Crane/Water Pur	mp/Power Broo	1/1/1	
Road Safety	Development Attribution (7.34%)	1		Cutting Outfit/Bentonite Bin/Con Air Compressor/Cargo Truck/Ben		1/1/1	
Curb and	Gutter, Precast		0	Vibro Hammer w/ Hydraulic Pow	er Pack	1	
	100m thk. zed Thermoplastic Pavement Markings White			Pile Integrity Testing (Sonic)/Grin Dynamic Pile Testing/Service Cra	ding Machine	1/1	
Reflectori	zed Thermoplastic Pavement Markings Yellow			One Bagger Mixer/Tremie Pipe S	et/Drilling Rig	1/1/1	
	n Post, with Street Light, 8m, LED, 130W			Pneumatic Tire Roller/Tandem St Asphalt Distributor/Tower Lights/Co	eel Roller	1/1	
Paver Bio	CAS			Welding Machine/Asphalt Paver,	Boom Truck	1/1/1	
				Crawler Crane (60T)/Crane w/ Bu SPT & Desanding Machine/Porta	cket	1/1	
Total		100.00		Backhoe (Wheel Type)/Transit M		1/2	
		MATED COST OF F			Link cost (n)		I Cont Int
Part A	Description Facilities for the Engineer	THE PERSON NAMED IN COLUMN	Unit	Quantity	Unit Cost (P)	Tota	al Cost (P)
A.1.1(6)	Provision of Combined Field Office, Laboratory and		month	11.00	11,340.	00	124,740.00
	Living Quarters Building for the Engineer (Rental Basis) Provision of 4x4 Pick Up Type Service Vehicle for the		1.5000000000				
A.1.2(2)	Engineer on Bare Rental Basis		month	11.00	58,702.	35	645,725.85
A.1.2(5)	Operation and Maintenance of 4x4 Pick Up Type Service Vehicle for the Engineer	e	month	11.00	35,328.	18	388,609.97
					Sub-Total:		1,159,075.82
Part B B.5	General Requirements Project Billboard/Signboard	And Settle Lake On	ea.	2.00	5,356	54 T	10,713.09
B.7	Occupational Safety and Health Program		month	11.00	28,469.	46	313,164.08
B.9	Mobilization and Demobilization		l.s.	1.00	357,537. Sub-Total:	60	357,537.60 681,414.77
7 Sept. 15 May 1	ROADWAY		ESTON TO	AND THE PARTY OF THE	Sub-Total:	20 治 水等	081,414.77
102(2)	Surplus Common Excavation	(4) (2) (4) (4) (4)	SDEBALL	17,372.00	174.	00	2 020 022 11
103(6)a	Pipe Culverts and Drain Excavations, Common Soil		cu. m.		279.		3,039,832.11 1,489,754.09
					Sub-Total:		4,529,586.20
200(1)	Subbase and Base Course Aggregate Subbase Course	VENT SECURE BY HAM	cu. m.	6,907.00	746.		5,158,261.26
201(1)	Aggregate Base Course		cu. m.		1,026.		5,674,961.38
Part E	Surface Course	· 在 1868年,第一百年 2018	Maria Maria	· · · · · · · · · · · · · · · · · · ·	Sub-Total:	BETON STATE	0,833,222.64
2021210	Bituminous Prime Coat - RC - Cut-back Asphalt, Grade	3000	sq. m.	23,598.00			2,012,004.42
302(2) 310(2)	Emulsified Asphalt Bituminous Concrete Surface Binder Course, Hot-Laid (50 mm)	sq. m.		1,621.		1,362,101.43
310(1)a3	Bituminous Concrete Surface Wearing Course, Hot-Laid		sq. m.		1,621.	65 3	88,267,773.45
Part G	Drainage and Slope Protection Structures	21 533 (8.45)	Salar Milana		Sub-Total:	MINISTER AND ADDRESS OF THE PARTY OF THE PAR	9,909,652.75
500(1)a3	Pipe Culverts, 910mm dia., Class II, RCPC		l.m.	3,508.00			0,457,210.97
404(1)a 405(1)a3	Reinforcing Steel, Grade 40 Structural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days		kg.	44,114.00 616.00	57. 7,332.		2,526,572.42 4,516,541.10
403(1)63	//	•	cu. m.	020.00	Sub-Total:	2	7,500,324.49
Part H	Miscellaneous Structures Gender and Development Attribution: Road Safety	The second secon	and making	METTER STATE (1997年) 1997年 -		A) Market Tolky	40 现代外
600(7)	Curb and Gutter, Precast		pc.	3,445.00	2,082.		7,174,242.79
601(1)	Sidewalk, 100mm thk.		sq. m.		591. 848.	65	9,542,763.88 703,400.63
612(1)	Reflectorized Thermoplastic Pavement Markings White Reflectorized Thermoplastic Pavement Markings Yellov		sq. m.		907.		13,615.84
624(1)a1	Single Arm Post, with Street Light, 8m, LED, 130W Paver Blocks		each	148.00	141,757. 832.	04 2	2,991,102.26
807(9)	Paver blocks		sq. m.	5,591.00	Sub-Total:		1,405,167.43
	ACCESS ROAD	A CHARLES			Lotal for f		AND PERSONS
	Earthworks	Karatalya sa ma	-	THE REAL PROPERTY OF THE PARTY	A STATE OF THE PARTY.	-WEATTHEAT	A STATE OF THE
102(2)	Surplus Common Excavation		cu. m.		174. 527.		68,943.92 1,696,158.31
104(2)a	Embankment from Borrow, Common Soil		cu. m.	5,215.00	Sub-Total:		1,765,102.23
Part D	Subbase and Base Course	科学 (學術性大學/分科)	ALPHANE S	STATE OF THE PROPERTY OF THE PROPERTY OF	746.	国中国中国	经公民销售价值
200(1)	Aggregate Subbase Course		cu. m.	266.00	Sub-Total:	1	198,653.18 198,653.18
Prepared by:	1	Checked b	V:)/	Submitted by:) /	
	1	(MY		\times	1	
ya	CUITABAO (EDIAINI D. MASSATINICES		AM	MAIDARALIES	/ -	OU N. LACUN	Α.
WARREN V.(GUINABAO/ERWIN R. MACATINGRAO Engineer II			MIRABALLES ng đạd Design Division		g and Design D	
	1000 T T T T T T T T T T T T T T T T T T			-) -	903-90-11 73 9-1-1990-01199-1	1	version (CD)
				Appro For an	ved: d in the absence o	the Region	al Director
	THE STATE OF THE S			, or un	sustrice c	1	
	MENDIBECIN. SANOSA Eggineer III				-	-	
	(5.4)					S. SARMIEN	
					UIC - Assistant	Regional Direc	SEOF

	Construction of By-Passes/ Diversion Roads, inc			Roadbed Width:		25,04 m		
	ROW - Sorsogon City Coastal By-Pass Road incl	KUW and		Pavement Width: Bridge Width:		14.70m 20.84		
ocation:	Bridge, Sorsogon Sorsogon 1st Legislative District			Type of Superstructure: Bypass	Bridge 1		Slab	
ppropriation:	P 300,000,000.00			Type of Superstructure: Bypass			Slab	
ource of Fund:	GAA FY - 2017			Type of Substructure:		Bored Pile		
assification:	Road & Bridge			No. of Span/Abut.: Bypass Bridg	ge 1	5/2		
mits: Road	Sta. 0+000.00 - Sta. 1+796.60 (w/ Exception)			No. of Span/Abut.: Bypass Bridg			/2	
	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)			No. of Piers: Bypass Bridge 1		4		
mits: Bridge	Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)			No. of Piers: Bypass Bridge 2		n	/a	
	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2)			No. of Cal. Days to Complete		330	C.D.	
et Length:	1.7225 km (Road) - 12.275lane km; 0.21814 km (Access Road) - 0.	43628 lan	e km				
	60.60 l.m. (Bypass Bridge 1) - 1262.90 sq.m.; 13	.50 (Bypass Bridg	e 2) - 281	.34 sq.m.				
	escription of Work to be Done	% of Tota			EQUIPMENT			
cilities for the En		0.40		TYPE	1		MBER	
eneral Requireme	ints	0.24			75 - 1 11	NEEDED	AVAILAB	
rthworks		2.91		Backhoe/Payloader/Generator Se		1/1/1/2	_	
idge Construction		39.30 3.81		Dump Truck/Motorized Road Grad Vibratory Roller/Concrete Vibrato		3/1 1/2/1	_	
bbase and Base C	Lourse	28.20		Water Truck/Plate Compactor/Bai		1/1/1	_	
rface Course	Destaction Structures	10.46		Bar Bender/Bar Cutter/Drop Ham		1/1/1	_	
iscellaneous Stru	Protection Structures	14.68		Truck Mounted Crane/Water Pum		1/1/1	_	
	opment Attribution (7.34%)	14.00		Cutting Outfit/Bentonite Bin/Com		1/1/1		
oad Safety (7.345				Air Compressor/Cargo Truck/Bent	onite Mixer	1/1/1		
Curb and Gutter,	Precast			Vibro Hammer w/ Hydraulic Powe	r Pack	1	1	
Sidewalk, 100m				Pile Integrity Testing (Sonic)/Grino		1/1		
	ermoplastic Pavement Markings White			Dynamic Pile Testing/Service Cran		1/1		
	ermoplastic Pavement Markings Yellow			One Bagger Mixer/Tremie Pipe Se		1/1/1		
	with Street Light, 8m, LED, 130W			Pneumatic Tire Roller/Tandem Ste		1/1		
Paver Blocks				Asphalt Distributor/Tower Lights/Cond		1/1/1		
				Welding Machine/Asphalt Paver/E	Boom Truck	1/1/1		
				Crawler Crane (60T)/Crane w/ Bud		1/1		
				SPT & Desanding Machine/Portab		1/2		
otal		100.00		Backhoe (Wheel Type)/Transit Mixer		1/4		
Item No.	Description		Unit	Quantity	Unit Cost (P) Tot	tal Cost (P)	
	ce Course	The state of the s	C TO MAKE	1 224 001			1 736 406	
311(1)c1 Portla	nd Cement Concrete Pavement (Unreinforced), 0.23 n	n thick, 14 days	sq. m.	1,331.00	Sub-Total	4.66	1,736,496.2 1,736,496.2	
David Committee	age and Slope Protection Structures	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	N = a enth or use		Sub-Total		1,730,430.2	
	ture Excavation, Common Soil	Market Street,	cu. m.		37	9.35	36,594.3	
	dation Fill		cu. m.	46.00	1.06	8.94	49,171.0	
	tural Steel, furnished, and fabricated		kg.	12.00		9.63	1,075.5	
	orcing Steel, Grade 40		kg.	9,881.00		7.27	565,921.5	
	tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days		cu. m.	154.00		2.05	1,129,135.2	
	ted Riprap, Class A		cu. m.	337.00		3.82	985,328.6	
					Sub-Total		2,767,226.4	
Part H Misce	ellaneous Structures	中心学习的是是	S STATE	THE RESIDENCE OF THE PARTY OF T		THE RESERVE TO SERVE	100	
	and Gutter, Precast		pc.	436.00	2,08	2.51	907,973.8	
612(1) Reflec	ctorized Thermoplastic Pavement Markings White		sq. m.	219.00		8.49	185,819.9	
					Sub-Total		1,093,793.7	
ATTA - 100 - 1 -	WHEN THE PARTY OF THE PROPERTY OF	V CATE OF THE PARTY OF	20 1444	A SHIP THE REPORT OF	Total for	STATE PARTICIPANT	对66元位	
III. BYPA	description of the second seco		BARTON BARTON TO			AND THE PROPERTY.	Total American Probability of the	
		新年起《物证》 (1982	一大学に「大学	新疆,于1987年,1987年	では「大学」という。	THE STATE OF THE S	The state of the s	
Part C Earth	works				SECTION AND ADDRESS.	E FEMALE AND	MARKET STREET	
104(2)a Emba	works nkment from Borrow, Common Soil		cu. m.	5.00		7.58	2,637.8	
	works nkment from Borrow, Common Soil		cu. m.	5.00 805.00	1,32	3.56	1.065,465,1	
104(2)a Emba 104(5) Bould	works nkment from Borrow, Common Soil ler Fill		cu. m.			3.56	2,637.8 1,065,465.1 1,068,103.0	
104(2)a Emba 104(5) Bould Part F Bridge	works nkment from Borrow, Common Soil ler Fill Construction		cu. m.	805.00	1,32 Sub-Total	3.56 :	1,065,465.1 1,068,103.0	
104(2)a Emba 104(5) Bould Part F Bridge 00(23)a5 Bored	works nkment from Borrow, Common Soil er Fill e. Construction Piles, 1.20m		cu. m.	900.00	1,32 Sub-Total 40,63	0.45	1,065,465.1 1,068,103.0 36,567,401.5	
104(2)a Emba 104(5) Bould Part F Bridge 100(23)a5 Bored 100(24)e1 Perma	works nkment from Borrow, Common Soil ler Fill e Construction g Piles, 1.20m anent Casing, 1.20m (10mm thk.)		l.m.	900.00 648.00	1,32 Sub-Total 40,63 21,86	3.56 : 0.45 9.90	1,065,465.1 1,068,103.0 36,567,401.5 14,171,692.5	
104(2)a Emba 104(5) Bould Part F Bridge 100(23)a5 Bored 100(24)e1 Permit 400(27)b Pile In	works nkment from Borrow, Common Soil ler Fill e Construction I Piles, 1,20m anent Casing, 1,20m (10mm thk.) Integrity Testing, Low Strain		l.m. l.m. each	900.00 648.00 10.00	1,32 Sub-Total 40,63 21,86 79,87	3.56 : 0.45 9.90 1.57	1,065,465.1 1,068,103.0 36,567,401.5 14,171,692.1 798,715.6	
104(2)a Emba 104(5) Bould Part F Bridg 00(23)a5 Boreo 00(24)e1 Permi 400(27)b Pile In 400(28) High S	works nkment from Borrow, Common Soil ler Fill e Construction I Piles, 1,20m anent Casing, 1,20m (10mm thk.) httegrity Testing, Low Strain Strain Dynamic Testing (P.D.A)		l.m. l.m. each	900.00 648.00 10.00 5.00	1,32 Sub-Total 40,63 21,86 79,87 155,63	3.56 : 0.45 9.90 1.57 8.98	1,065,465.2 1,068,103.6 36,567,401.2 14,171,692.2 798,715.6 778,194.5	
104(2)a Emba 104(5) Bould Part F. Bridge 00(23)a5 Bored 00(24)e1 Perma 400(28) High S 401(2)a Concr	works nkment from Borrow, Common Soil ler Fill E Construction Files, 1.20m anent Casing, 1.20m (10mm thk.) https://doi.org/10.10mm/10		I.m. I.m. each each I.m.	900.00 648.00 10.00 5.00 120.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83	0.45 0.990 1.57 8.98 2.00	1,065,465.2 1,068,103.0 36,567,401.2 14,171,692.2 798,715.6 778,194.2 459,839.2	
104(2)a Emba 104(5) Bould Part F Bridge 00(23)a5 Bored 00(24)e1 Perma 400(27)b Pile In 400(28) High S 401(2)a Concr 404(1)a Reinfo	works nkment from Borrow, Common Soil ler Fill e Construction g Piles, 1.20m anent Casing, 1.20m (10mm thk.) httgrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard ording Steel, Grade 40		l.m. l.m. each each l.m. kg.	900.00 648.00 10.00 5.00 120.00 220.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83	3.56 2.00.45 9.90 1.57 8.98 2.00 7.27	1,065,465.2 1,068,103.0 36,567,401.3 14,171,692.3 798,715.6 778,194.9 459,839.9	
104(2)a Emba 104(5) Bould Part F Bridge 100(23)a5 Bored 100(24)e1 Perma 400(27)b Pile In 400(28) High S 401(2)a Concr 404(1)a Reinfo 404(1)b Reinfo	works nkment from Borrow, Common Soil ler Fill e Construction I Piles, 1,20m anent Casing, 1,20m (10mm thk.) htegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 40 orcing Steel, Grade 60		l.m. l.m. each each l.m. kg.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5	3.56 9.90 1.57 8.98 2.00 7.27 1.38	1,065,465.2 1,068,103.0 36,567,401.3 14,171,692.7 798,715.6 778,194.9 459,839.9 12,600.2 8,925,654.2	
104(2)a Emba 104(5) Bould Part F Bridge 100(23)a5 Bored 100(24)e1 Permit 400(27)b Pile Interpretation of the control 404(2)a Concretation of the control 404(1)a Reinfretation of the control 404(1)b Reinfretation of the control 405(1)a3 Struct	works nkment from Borrow, Common Soil ler Fill e Construction I Piles, 1.20m anent Casing, 1.20m (10mm thk.) httegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 cural Concrete, fc" = 20.68 Mpa, Class "A", 28 Days		l.m. l.m. each each l.m. kg. kg. cu. m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 15.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6	3.56 9.90 1.57 8.98 2.00 7.27 1.38 2.05	1,065,465.2 1,068,103.0 36,567,401.2 14,171,692.2 798,715.0 778,194.9 459,839.9 12,600.2 8,925,654.1	
104(2)a Emba 104(5) Bould Part F. Bridge 100(23)a5 Bored 100(24)e1 Perma 1400(27)b Pile In 1400(28) High S 1401(2)a Concr 1404(1)a Reinfr 1404(1)b Reinfr 1404(1)a Struct 1405(1)a3 Struct	works nkment from Borrow, Common Soil ler Fill e Construction grid Files, 1.20m anent Casing, 1.20m (10mm thk.) attegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard proing Steel, Grade 40 proing Steel, Grade 50 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days		l.m. l.m. each each l.m. kg. kg. cu. m. cu. m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 15.00 1,059.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69	3.56 6.045 9.90 1.57 8.98 2.00 7.27 1.38 2.05 2.28	1,065,465.: 1,068,103.(36,567,401.: 14,171,692.: 798,715.(778,194.: 459,839.: 12,600.: 8,925,654.: 109,980.: 10,264,123.:	
104(2)a Emba 104(5) Bould Part F Bridge 400(23)a5 Bored 400(24)e1 Permit 400(27)b Pille Inf 400(28) High S 401(2)a Concr 404(1)b Reinfo 404(1)b Reinfo 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet	works nkment from Borrow, Common Soil ler Fill e Construction Piles, 1,20m Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard pricing Steel, Grade 40 pricing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days Piles, Concrete, Furnished and Driven		I.m. each each I.m. kg. kg. cu. m. cu. m. I.m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 1,059.00 1,920.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69 4,63	3.56 0.45 9.90 1.57 8.98 2.00 7.27 1.38 2.05 2.28 5.52	1,065,465.1 1,068,103.0 36,567,401.5 14,171,692.1 798,715.6 778,194.5 12,600.2 8,925,654.1 10,980.7 10,264,123.3 8,900,189.2	
104(2)a Emba 104(5) Bould Part F Bridge 100(23)a5 Bored 100(24)e1 Permit 400(27)b Pile Int 400(28) High S 401(2)a Concr 404(1)b Reinfo 404(1)b Reinfo 405(1)b3 Struct 509(3)c Sheet	works nkment from Borrow, Common Soil ler Fill e Construction grid Files, 1.20m anent Casing, 1.20m (10mm thk.) attegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard proing Steel, Grade 40 proing Steel, Grade 50 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Days		l.m. l.m. each each l.m. kg. kg. cu. m. cu. m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 15.00 1,059.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69 4,63 12,26	3.56 	1,065,465.2 1,068,103.0 36,567,401.2 14,171,692.1 798,715.6 459,839.8 12,600.2 10,264,123.2 8,925,654.1 109,980.7 10,264,123.2 8,900,189.2 588,480.5	
104(2)a Emba 104(5) Bould Part F Bridge 00(23)a5 Boreco 00(24)e1 Pereco 100(27)b Pile Ir 400(28) High S 401(2)a Concr 404(1)a Reinfo 404(1)b Reinfo 105(1)b3 Struct 509(3)c Sheet	works nkment from Borrow, Common Soil ler Fill e Construction Piles, 1,20m Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard pricing Steel, Grade 40 pricing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days Piles, Concrete, Furnished and Driven		I.m. each each I.m. kg. kg. cu. m. cu. m. I.m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 1,059.00 1,920.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69 4,63 12,26 Sub-Total	3.56 9.90 1.57 8.98 2.00 7.27 1.38 2.05 2.28 5.52 0.02	1,065,465.: 1,068,103.0 36,567,401 14,171,692.: 778,715.6 459,839.: 12,600.: 8,925,654.: 109,980.: 10,264,123.: 8,900,189.: 588,480.:	
104(2)a Emba 104(5) Bould Part F. Bridge 00(23)a5 Bored 00(24)e1 Perma 00(27)b Pile In 400(28) High S 401(2)a Concr 404(1)a Reinfor 404(1)b Reinfor 00(5(1)a3 Struct 00(1)a Struct 00(1)a Drain	works nkment from Borrow, Common Soil ler Fill e Construction Piles, 1,20m Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard pricing Steel, Grade 40 pricing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days Piles, Concrete, Furnished and Driven		cu. m. l.m. each each l.m. kg. kg. cu. m. cu. m. l.m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 1,059.00 1,920.00 48.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69 4,63 12,26 Sub-Total Total for la	3.56 9.90 1.57 8.98 2.00 7.27 1.38 2.05 2.28 5.52 0.02	1,065,465.; 1,068,103.1 36,567,401.; 14,171,692.; 798,715.; 459,839.; 12,600.; 109,980.; 109,980.; 10,264,123.; 8,900,189.; 588,480.5	
104(2)a Emba 104(5) Bould Part F Bridge 00(23)a5 Boreco 00(24)e1 Perena 100(27)b Pile In 400(28) High S 401(2)a Concr 404(1)a Reinfo 404(1)b Reinfo 105(1)b3 Struct 509(3)c Sheet	works nkment from Borrow, Common Soil ler Fill e Construction Piles, 1,20m Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard pricing Steel, Grade 40 pricing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Days Piles, Concrete, Furnished and Driven		cu. m. l.m. each each l.m. kg. kg. cu. m. cu. m. l.m.	900.00 648.00 10.00 5.00 120.00 220.00 145,425.00 1,059.00 1,920.00 48.00	1,32 Sub-Total 40,63 21,86 79,87 155,63 3,83 5 6 7,33 9,69 4,63 12,26 Sub-Total	3.56 9.90 1.57 8.98 2.00 7.27 1.38 2.05 2.28 5.52 0.02	1,065,465.: 1,068,103.0 36,567,401 14,171,692.: 778,715.6 459,839.: 12,600.: 8,925,654.: 109,980.: 10,264,123.: 8,900,189.: 588,480.:	

WARRENV. GUMABAO/ERWIN R. MACATINGRAO Engineer II

> MENDIDEL N. SAÑOSA Engineer III

> > 77 M Cuj 11

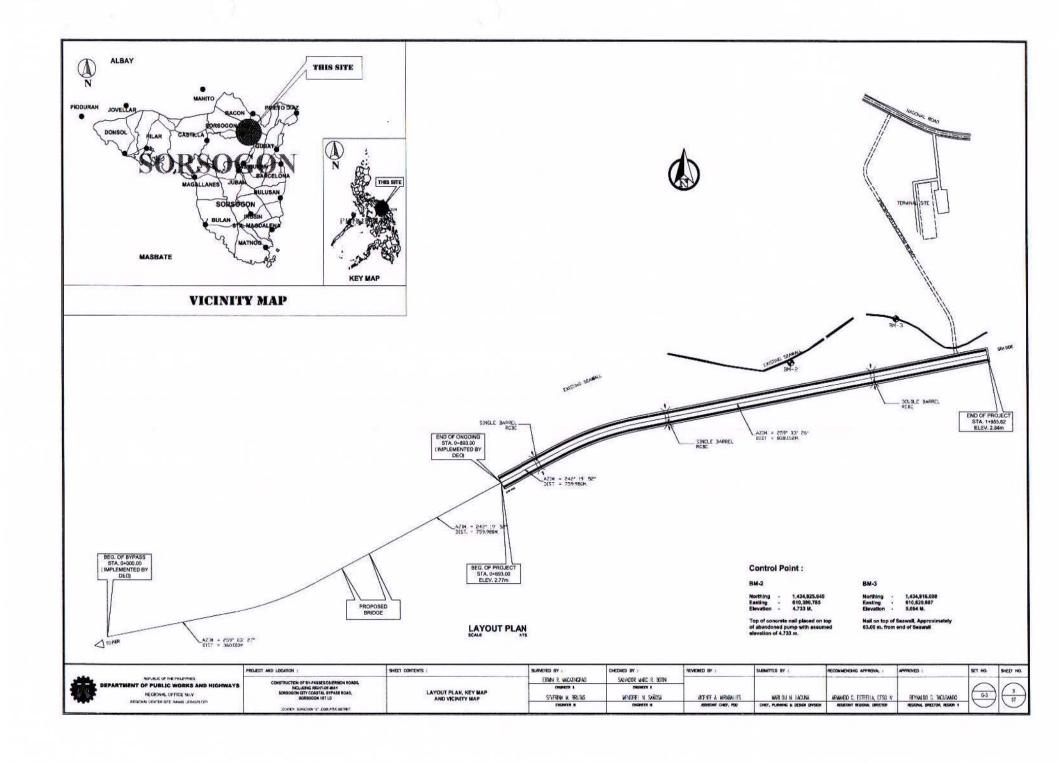
VICENTE A. MIRABALLES Asst. Chief, Planning and Design Division MARILO N. LACUNA Chief, Planning and Design Division

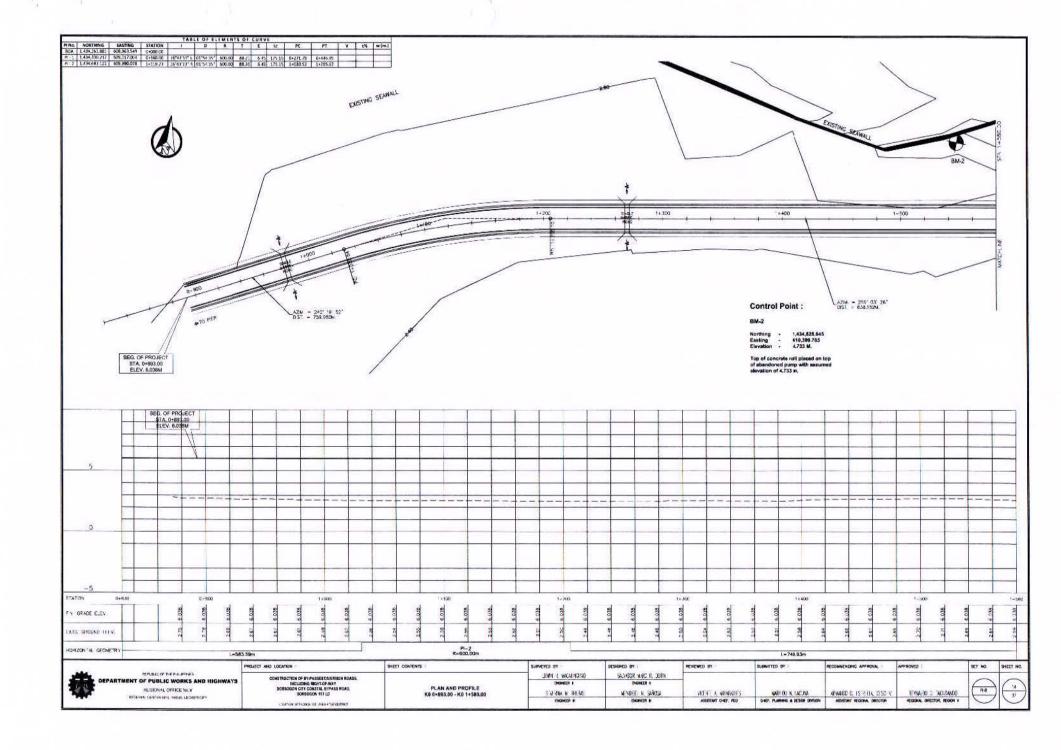
Approved: For and in the absence of the Regional Director

> ESMERALDO S. SARMIENTO OIC - Assistant Regional Director

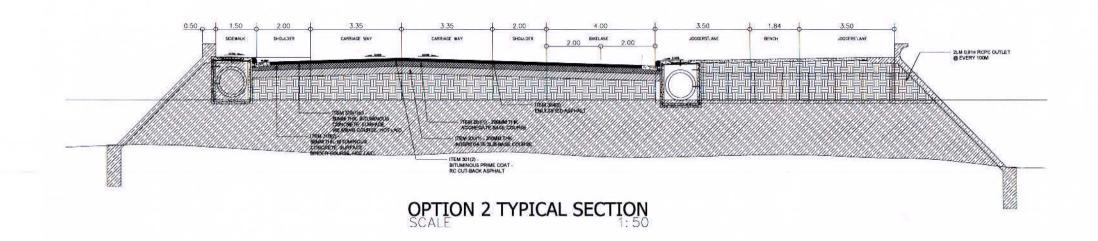
PROGRAM OF WORK / BUDGET COST

Name of Project:	Construction of By-Passes/ Diversion Roads, i			Roadbed Width:		25	.oψ m
	ROW - Sorsogon City Coastal By-Pass Road inc	I ROW and		Pavement Width:		M	.79 m
	Bridge, Sorsogon			Bridge Width:	-633- 4		0.84
ocation:	Sorsogon 1st Legislative District			Type of Superstructure: Bypas	s Bridge 1		it Slab
ppropriation:	P 300,000,000.00			Type of Superstructure: Bypas	is Bridge 2		it Slab
ource of Fund:	GAA FY - 2017			Type of Substructure:			ed Pile
lassification:	Road & Bridge			No. of Span/Abut.: Bypass Brid	ige 1		5/2
imits: Road	Sta. 0+000.00 - Sta. 1+796.60 (w/ Exception)			No. of Span/Abut.: Bypass Brid	dge 2		1/2
	Sta. 0+007.19 - Sta. 0+225.33 (Access Road)			No. of Piers: Bypass Bridge 1			4
imits: Bridge	Sta. 0+525.70 - Sta. 0+586.30 (Bypass Bridge 1)			No. of Piers: Bypass Bridge 2			n/a
	Sta. 1+703.25 - Sta. 1+716.75 (Bypass Bridge 2)		- 1122	No. of Cal. Days to Complete		33	0 C.D.
Vet Length:	1.7225 km (Road) - 12.975 lane km; 0.21814 km	(Access Road) - 0.4362	28 lane	e km			
Contraction of the Contraction o	[60.60 l.m. (Bypass Bridge 1) - 1262.90 sq.m.; 1	3.50 (Bypass Bridge 2)	- 281.	.34 sq.m.			
	Description of Work to be Done	% of Total			EQUIPMENT		
acilities for the En		0.40		TVDE			MBER
eneral Requireme		0.24		TYPE		NEEDED	AVAILABI
arthworks		2.91	- 1	Backhoe/Payloader/Generator S	et/Jack Hamme	1/1/1/2	
ridge Construction	n	39.30		Dump Truck/Motorized Road Gra		3/1	
ubbase and Base (3.81		Vibratory Roller/Concrete Vibrat		1/2/1	
urface Course	COUISE	28.20		Water Truck/Plate Compactor/Ba		1/1/1	_
	Protection Structures	10.46		Bar Bender/Bar Cutter/Drop Han		1/1/1	-
discellaneous Stru		14.68	- 1	Truck Mounted Crane/Water Pur	mp/Dower Broo	1/1/1	
	opment Attribution (7.34%)	14.00	- 1	Cutting Outfit/Bentonite Bin/Con	noressor		
						1/1/1	
Road Safety (7.345			- 1	Air Compressor/Cargo Truck/Ber Vibro Hammer w/ Hydraulic Pow	or Dack	1/1/1	
Curb and Gutter,				VIDIO Hammer W/ Hydraulic Pow	er Pack	1	
Sidewalk, 100m				Pile Integrity Testing (Sonic)/Grin		1/1	
	ermoplastic Pavement Markings White			Dynamic Pile Testing/Service Cra	ne (251)	1/1	
	ermoplastic Pavement Markings Yellow			One Bagger Mixer/Tremie Pipe S		1/1/1	
	with Street Light, 8m, LED, 130W			Pneumatic Tire Roller/Tandem St		1/1	
Paver Blocks				Asphalt Distributor/Tower Lights/Cor		1/1/1	
				Welding Machine/Asphalt Paver/		1/1/1	
			10	Crawler Crane (60T)/Crane w/ Bu	icket	1/1	
			9	SPT & Desanding Machine/Porta	ble Breaker	1/2	
otal		100.00		Backhoe (Wheel Type)/Transit M	lixer	1/4	
Item No.	Description		Unit	Quantity	Unit Cost	(P) To	otal Cost (P)
IV. BYPA	SS BRIDGE 2	A DESCRIPTION OF THE PARTY OF T		CARREST CONTRACTOR OF SERVICE		STATE CONTRACT	
Part C Earth	Works -	AND THE PARTY OF THE PARTY OF	SWINSTAN S	THE RESERVE OF THE PERSON OF T	STATE OF THE PARTY OF	PHONE SERVICE	Street Street Street
104(2)a Emba							
	ankment from Borrow, Common Soil	C	u. m.	5.00	5	27.58	2,637.8
	ankment from Borrow, Common Soil der Fill		u.m.	5.00 805.00		27.58 23.56	2,637.8 1.065.465.1
	der Fill		u. m.	5.00 805.00	1,3	23.56	1,065,465.1
104(5) Bould	der Fill					23.56	
104(5) Bould	e Construction	C	u. m.	805.00	1,3 Sub-Tota	23.56 I:	1,065,465.1 1,068,103.0
104(5) Bould Part F Bridg 400(23)a5 Bored	der Fill Construction Files, 1.20m	c	l.m.	805.00	1,3 Sub-Tota 40,6	23.56	1,065,465.1 1,068,103.0
104(5) Bould Part F Bridg 400(23)a5 Bored 400(24)e1 Perm	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.)	c	I.m.	300.00 216.00	1,3 Sub-Tota 40,6 21,8	23.56 d: 30.45 69.90	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3
Part F Bridg 400(23)a5 Bored 400(24)e1 Perm 400(27)b Pile Ir	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain	C	I.m. I.m. each	300.00 216.00 6.00	1,3 Sub-Tota 40,6 21,8 79,8	23.56 il: 30.45 69.90 71.57	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 5	der Fill Ge Construction Hilles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A)	C	I.m. I.m. each	300.00 216.00 6.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6	23.56 d: 30.45 69.90 71.57 38.98	1,065,465.1 1,068,103.6 12,189,133.8 4,723,897.3 479,229.4 933,833.8
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard	C	I.m. I.m. each each	300.00 216.00 6.00 6.00 24.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8	23.56 d: 30.45 69.90 71.57 38.98 32.00	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)a Reinfe	der Fill e Construction d Piles, 1.20m lanent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard ording Steel, Grade 40	C	I.m. I.m. each each I.m. kg.	805.00 300.00 216.00 6.00 6.00 24.00 220.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8	23.56 d: 30.45 69.90 71.57 38.98 32.00 57.27	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)b Reinfe	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60		I.m. I.m. each each I.m. kg.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8	23.56 d: 30.45 69.90 71.57 38.98 32.00 57.27 61.38	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 1 401(2)a Concr 404(1)a Reinft 404(1)b Reinft 404(1)a Struct	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day	6 6 6 5 CC	I.m. I.m. each each l.m. kg. kg.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8	23.56 d: 30.45 59.90 71.57 38.98 32.00 57.27 61.38	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High S 401(2)a Concr 404(1)b Reinfr 404(1)b Reinfr 404(1)b Struct 405(1)a3 Struct 405(1)b3 Struct	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day	5 CC 55 CC	I.m. I.m. each each I.m. kg. kg. cu. m.	300.00 216.00 6.00 24.00 220.00 30,978.00 15.00 288.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6	23.56 1: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)b Reinfr 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven	5 Ci	I.m. I.m. each each I.m. kg. kg. cu. m. cu. m.	300.00 216.00 6.00 220.00 220.00 30,978.00 15.00 288.00 1,920.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6	23.56 1: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 992.28 35.52	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.9 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)b Reinfr 404(1)b Reinfr 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day	5 Ci	I.m. I.m. each each I.m. kg. kg. cu. m.	300.00 216.00 6.00 24.00 220.00 30,978.00 15.00 288.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6 12,2	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)a Reinf 404(1)b Reinf 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven	5 Ci	I.m. I.m. each each I.m. kg. kg. cu. m. cu. m.	300.00 216.00 6.00 220.00 220.00 30,978.00 15.00 288.00 1,920.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 9 401(2)a Concr 404(1)b Reinfr 404(1)b Reinfr 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	/S C:	I.m. I.m. each each I.m. kg. kg. u. m. I.m. I.m.	300.00 216.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6 12,2	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229. 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Irl 400(27)b Pile Irl 400(28) High: 401(2)a Concr 404(1)a Reinfi 404(1)b Reinfi 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	/S CC	I.m. I.m. each each I.m. kg. kg. u. m. I.m. I.m.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 288.00 1,920.00 6.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 59.90 71.57 38.98 32.00 57.27 51.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 1 401(2)a Concr 404(1)a Reinf 404(1)b Reinf 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	S CO	L.m. L.m. each each l.m. kg. kg. cu. m. L.m. L.m.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 59.90 71.57 38.98 32.00 57.27 51.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High: 401(2)a Concr 404(1)a Reinfi 404(1)b Reinfi 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	/S CC	L.m. L.m. each l.m. kg. kg. cu. m. L.m. L.m. L.m. L.m. L.m. L.m. L.m.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 59.90 71.57 38.98 32.00 57.27 51.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3 33,218.8
104(5) Bould Part F. Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)a Reinfr 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	KDOWN OF ESTIMATE 237,866,687.70	L.m. L.m. each each l.m. kg. kg. u. m. l.m. l.m. L.m.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 59.90 71.57 38.98 32.00 57.27 51.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 9 401(2)a Concr 404(1)b Reinf 404(1)b Struct 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized	S CO	L.m. L.m. each each l.m. kg. kg. u. m. l.m. l.m. L.m.	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229,4 933,833.8 91,967.9 12,600.2 1,901,316.3 8,900,189,2 73,560.1 32,207,085.3 33,218.8
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 1 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX	der Fill de Construction de Piles, 1.20m anent Casing, 1.20m (10mm thk.) integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 40 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day t Piles, Concrete, Furnished and Driven Pipe, Galvanized BREA	25 CC S S CC S S CC S S CC S S S S CC S	L.m. L.m. each each l.m. kg. kg. u.m. L.m. L.m. L.m. L.m. L.m. L.m. L.m	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229,4 933,833.8 91,967.9 12,600.2 1,901,316.3 8,900,189,2 73,560.1 32,207,085.3 33,218.8
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 1 401(2)a Concr 404(1)a Reinfe 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/Mi	der Fill e Construction d Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA	KDOWN OF ESTIMATE 237,866,687.70 13,785,708.58 37,847,483.92	L.m. L.m. each each l.m. kg. u. m. l.m. l.m. L.m. L.m. L.m. DEXF	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Fotal Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 7,3 9,6 4,6,6 12,2 Sub-Tota	23.56 l: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 35.52 60.02 l:	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3 33,218.8
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Part F Bridge 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)a Reinfr 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Drain Part Available Rentals of Equip VAT/TAX Indirect Cost/Materials Reserve for RRO Reserve for Tree repared by:	der Fill de Construction de Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Fotal Cost Quality Control Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY	1,3 Sub-Total 40,6 21,8 79,8 155,6 3,8 155,6 4,6,6 12,2 Sub-Total Total for	23.56 II: 30.45 69.90 771.57 38.98 32.00 57.27 661.38 32.05 92.28 33.552 60.02 II: III	1,065,465. 1,068,103.0 12,189,133. 4,723,897. 479,229. 933,833.0 91,967. 12,600. 1,901,316. 109,980. 2,791,376. 8,900,189. 73,560. 32,207,085. 33,275,188. 289,499,880. 10,500,000.0
104(5) Bould Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile III el 400(28) High 3 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/M. Eng'g. Administr Reserve for RRO Reserve for Tree	der Fill De Construction If Piles, 1.20m Anent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard Orcing Steel, Grade 40 Orcing Steel, Grade 40 Orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA BREA Oment ark-Up rative Overhead OW Planting TOTAL	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATE	1,3 Sub-Total 40,6 21,8 79,8 155,6 3,8 155,6 4,6,6 12,2 Sub-Total Total for	23.56 1: 30.45 69.90 71.57 38.98 32.00 57.27 61.38 32.05 92.28 33.552 60.02	1,065,465.: 1,068,103.0 12,189,133.8 4,723,897 479,229. 933,833.8 91,967.9 12,600.2 1,901,316.: 109,980.7 2,791,376 8,900,189.7 73,560.1 32,207,085.3 33,275,188.3 289,499,880.2 10,500,000.0
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Part F Bridge 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Ir 400(28) High 3 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)b3 Struct 509(3)c Sheet 517(1)a Drain Drain Part Available Rentals of Equip VAT/TAX Indirect Cost/Microscopic Reserve for Tree repared by:	der Fill de Construction de Piles, 1.20m anent Casing, 1.20m (10mm thk.) ntegrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc' = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY Approv	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 155,6 4,6 12,2 Sub-Tota Total for	23.56 II: 30.45 69.90 77.57 38.98 32.00 57.27 61.38 32.05 92.28 33.552 60.02 II: IV 3.5%	1,065,465.: 1,068,103.0 12,189,133.8 4,723,897. 479,229. 933,833.8 91,967.9 12,600.2 1,901,316.: 109,980 2,791,376 8,900,189 73,560.1 32,207,085 33,275,188 289,499,880.2 10,500,000.0
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Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Iri 400(28) High 3 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/M: Eng'g. Administr Reserve for RRO Reserve for Tree repared by:	der Fill The Construction If Piles, 1.20m anent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA Diment ark-Up rative Overhead DW a Planting TOTAL BAO/ERWIN R. MACATINGRAO Engineer II	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY Approv	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 155,6 4,6 12,2 Sub-Tota Total for	23.56 II: 30.45 69.90 77.57 38.98 32.00 57.27 61.38 32.05 92.28 33.552 60.02 II: IV 3.5%	1,065,465.: 1,068,103.0 12,189,133.8 4,723,897. 479,229. 933,833.8 91,967.9 12,600.2 1,901,316.: 109,980 2,791,376 8,900,189 73,560.1 32,207,085 33,275,188 289,499,880.2 10,500,000.0
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Iri 400(28) High 3 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/M: Eng'g. Administr Reserve for RRO Reserve for Tree	der Fill De Construction If Piles, 1.20m Anent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) Integrity Testing, Low Strain Integrity Testi	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY Approv	1,3 Sub-Tota 40,6 21,8 79,8 155,6 3,8 155,6 4,6 12,2 Sub-Tota Total for	23.56 II: 30.45 69.90 77.57 38.98 32.00 57.27 661.38 32.05 92.28 33.552 60.02 II: IV 3.5%	1,065,465.1 1,068,103.6 12,189,133.8 4,723,897.3 479,229.9 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.7 73,560.1 32,207,085.3 33,275,188.3 289,499,880.2 10,500,000.0
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Iri 400(28) High 3 401(2)a Concr 404(1)a Reinfr 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/M: Eng'g, Administr Reserve for RO Reserve for Tree repared by:	der Fill The Construction If Piles, 1.20m anent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) rete Railing, Standard orcing Steel, Grade 40 orcing Steel, Grade 40 orcing Steel, Grade 60 tural Concrete, fc' = 20.68 Mpa, Class "A", 28 Day tural Concrete, fc = 27.58 Mpa, Class "A", 28 Day tural Concrete, Furnished and Driven Pipe, Galvanized BREA Diment ark-Up rative Overhead DW a Planting TOTAL BAO/ERWIN R. MACATINGRAO Engineer II	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY Approv	Sub-Total 40,6 21,8 79,8 155,6 3,8 155,6 4,6 12,2 Sub-Total Total for	23.56 II: 30.45 69.90 771.57 38.98 32.00 57.27 661.38 32.05 92.28 33.52 60.02 II: IV 3.5% The control of the Region of the Reg	1,065,465.: 1,068,103.0 12,189,133.8 4,723,897 479,229. 933,833.8 91,967.9 12,600.2 1,901,316 109,980.7 2,791,376 8,900,189.7 73,560.1 32,207,085.9 33,275,188.9 289,499,880.2 10,500,000.0
Part F Bridg 400(23)a5 Borec 400(24)e1 Perm 400(27)b Pile Iri 400(28) High 3 401(2)a Concr 404(1)a Reinf 405(1)a3 Struct 405(1)a3 Struct 509(3)c Sheet 517(1)a Drain Labor Materials Rentals of Equip VAT/TAX Indirect Cost/M: Eng'g. Administr Reserve for RRO Reserve for Tree repared by:	der Fill De Construction If Piles, 1.20m Anent Casing, 1.20m (10mm thk.) Integrity Testing, Low Strain Strain Dynamic Testing (P.D.A) Integrity Testing, Low Strain Integrity Testi	237,866,687.70 E 37,847,483.92 E 10,500,000.00 C Checked by	Lu. m. each l.m. kg. kg. kg. kg. kg. kg. kg. kg. kg. kg	300.00 216.00 6.00 6.00 24.00 220.00 30,978.00 15.00 288.00 1,920.00 6.00 PENDITURES Total Cost Quality Control Eng'g. Admin. Overhead Reserve for Tree Planting Reserve for RROW R.O. Retention C.O. Retention TOTAL ESTIMATEL SAY Approv	Sub-Total 40,6 21,8 79,8 155,6 3,8 9,6 4,6 4,6 12,2 Sub-Total Total for.	23.56 II: 30.45 69.90 77.57 38.98 32.00 57.27 661.38 32.05 92.28 33.552 60.02 II: IV 3.5%	1,065,465.1 1,068,103.0 12,189,133.8 4,723,897.3 479,229.4 933,833.8 91,967.9 12,600.2 1,901,316.2 109,980.7 2,791,376.3 8,900,189.2 73,560.1 32,207,085.3 38,275,188 289,499,880.2 10,500,000.0





Construction of By-Passes/ Diversion Roads, including ROW - Sorsogon City Coastal By-Pass Road including ROW and Bridge, Sorsogon Location: Sorsogon 1st Legislative District





Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE REGIONAL DIRECTOR

Region V Regional Government Center, Rawis, Legazpi City

CERTIFICATE OF AVAILABILITY OF ALLOTMENT

This is to certify that the amount of TWO HUNDRED NINETY FIVE MILLION FIVE HUNDRED THOUSAND PESOS ONLY (295,500,000.00) for Network Development Construction of By-Passes/ Diversion Roads, including ROW Sorsogon City Coastal By-Pass Road incl ROW and Bridge, Sorsogon of SR2017-01-000281 dated January 28, 2017 RA 10924 is still available for obligation.

Issued this 23rd day of May, 2017 for record and reference purposes.

SHEILAV. BARRO Administrative Officer V (Budget Officer III) FE M. MAGANA
Chief Administrative Officer
(Fiscal Controller V)

ESMERALDO S. SARMIENTO OIC- Asst. Regional Director

	Project Component Description	The second secon		(Nechel) Of	Control Alas			Implementing Office	
	t Preservation of National Roads - Rehabilitation/ Recons ling drainage based on Pavement Management System/ I								
65003014100139	Rehabilitation of Asphalt Road - Daang Maharlika (LZ) - K0548 + 647 - K0548 + 697, K0556 + 833 - K0557 + 000, K0562 + 600 - K0562 + 670, K0569 + 414 - K0569 + 504	P00101541LZ-CW1	Rehabilitation of Asphalt Road	Lane Km		0.76	13,477,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Preservation of National Roads - Rehabilitation/ Reconsi ling drainage based on Pavement Management System/ i								
	Reconstruction from Concrete to Concrete - Bacon- Sawanga-Prieto Diaz Rd - K0591 + -959 - K0591 + -440, K0591 + -427 - K0591 + -096, K0596 + 512 - K0597 + 000, K0602 + 713 - K0603 + 000, K0604 + 421 - K0604 + 715, K0606 + 313 - K0606 + 425, K0606 + 828 - K0607 + 600, K0609 + 155 - K0609 + 227, K0609 + 970 - K0610 + 000	P00102789LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km	9	6.796	78,000,000	Central Office / Sorsogon District Engineering Office	
	Reconstruction from Concrete to Concrete - Jct Donsol- Banuang Gurang Rd - K0578+800 - K0579+732, K0580+604 - K0580+906, K0583+540 - K0584+423, K0585+046 - K0585+333	P00102773LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km		4.6	48,000,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Reconstruction from Concrete to Concrete - Jct Putiao-Pilar- Donsol Rd - K0561+145 - K0561+492, K0561+596 - K0562+000, K0562+475 - K0562+622	P00102795LZ-CW1	Reconstruction from Concrete to Concrete	Lane Km	9	1.866	21,319,000		
	Preservation of National Roads - Rehabilitation/ Reconst	ruction of National Ro	ads with Slips, Slope	Collapse, and				2000 - 100 mm 100 - 100 mm	
65003014400066	Construction of Road Slope Protection Structure - Daang Maharlika (LZ) - K0542+234 - K0542+374, K0565+430 - K0565+515, K0567+247 - K0567+321, K0568+529 - K0568+636, K0568+947 - K0569+000	P00103021LZ-CW1	Construction of Road Slope Protection Structure	Square meters		2095	13,020,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Preservation of National Roads - Rehabilitation/ Reconst ilide - Tertiery	ruction of National Ro	ads with Slips, Slope	Collapse, and					
65003014600214	Construction of Road Slope Protection Structure - Jct Donsol-Banuang Gurang Rd - K0575+910 - K0576+006, K0576+104 - K0576+134, K0576+183 - K0576+200, K0576+255 - K0576+282, K0576+638 - K0576+715, K0576+838 - K0576+920, K0584+423 - K0584+450, K0584+706 - K0584+787	P00104201LZ-CW1	Construction of Road Slope Protection Structure	Square meters		2129	10,845,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
	Construction of Road Slope Protection Structure - Jct Putiao- Pliar-Donsol Rd - K0561+-300 - K0561+-228, K0561+(-144) - K0561+-047, K0561+740 - K0561+762		Construction of Road Slope Protection Structure	Square meters		1284	5,258,000	Sorsogon District Engineering Office / Sorsogon District Engineering Office	
Netwo	rk Development - Construction of By-Passes/ Diversion F	Roads, including ROW							
	Construction of Concrete Bridge - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon		Construction of Concrete Bridge	Square meters	- 100	549	120,000,000	Central Office / Region V	
	Construction of Concrete Road - Sersogon City Coastal By- Pass Road Incl ROW and Bridge, Sersogon		Construction of Concrete Road	Lane Km	4	.308	100,000,000	Central Office / Region V	

	UACS PAP	Project Component Description	Project Component ID	Type of Work	Target Unit	Target	Allocation	Operating Unit / Implementing Office	F
	165003015300241	Construction of Gravel Road - Sorsogon City Coastal By- Pass Road incl ROW and Bridge, Sorsogon	P00109546LZ-CW2	Construction of Gravel Road	Lane Km	2.08	60,000,000	Central Office / Region V	
1	165003015300241	ROW Acquisition - Sorsogon City Coastal By-Pass Road Incl ROW and Bridge, Sorsogon	P00109546LZ-ROW	ROW Acquisition	Square meters	5862.5	20,000,000	Central Office / Region V	
	Netwo	ork Development - Construction of Missing Gaps connec	ting National Roads, in	cluding ROW	etry deo				
	165003015400100	Construction of Concrete Bridge - Bacon-Manito Road incl. Bridge and Stope Protection, Sorsogon	P00111029LZ-CW1	Construction of Concrete Bridge	Square meters	380.8	60,000,000	Central Office / Region V	
	165003015400100	Construction of Gravel Road - Bacon-Manito Road incl. Bridge and Stope Protection, Sorsogon	P00111029LZ-CW2	Construction of Gravel Road	Lane Km	5.267	80,000,000	Central Office / Region V	
	165003015400100	Construction of Road Slope Protection Structure - Bacon- Manito Road incl. Bridge and Slope Protection, Sorsogon	P00111029LZ-CW3	Construction of Road Slope Protection Structure	Square meters	1142.857	10,000,000	Central Office / Region V	
	Netwo	ork Development - Improvement/Widening of National Ro	ads - N1	Structure					
	165003016500037	Road Widening - Daang Maharilka (LZ) - K0555 + 883 - K0555 + 909, K0557 + 980 - K0558 + 000, K0559 + 485 - K0559 + 573, K0567 + 439 - K0567 + 760, K0568 + 974 - K0570 + 400, K0581 + 680 - K0581 + 845, K0584 + 900 - K0584 + 950, K0599 + 751 - K0599 + 998	P00107525LZ-CW1	Road Widening	Lane Km	4.445	73,067,000	Central Office / Sorsogon District Engineering Office	
	Netwo	ork Development - Improvement/Widening of National Ro	ads - Secondary						
		Road Widening - Sorsogon Diversion Rd, including RROW - K0577 + 475 - K0578 + 956, K0579 + 210 - K0579 + 402, K0579 + 417 - K0580 + 636, K0582 + 376 - K0583 + 240	P00108624LZ-CW1	Road Widening	Lane Km	7.5	101,250,000	Central Office / Region V	
		ROW Acquisition - Sorsogon Diversion Rd, including RROW - K0577 + 475 - K0578 + 956, K0579 + 210 - K0579 + 402, K0579 + 417 - K0580 + 636, K0582 + 376 - K0583 + 240	P00108624LZ-ROW	ROW Acquisition	Square meters	14776	48,750,000	Central Office / Region V	
	The second secon	ork Development - Off-Carriageway Improvement includin	g drainage - Primary						
		Off-Carriageway Improvement: Shoulder Paving / Construction - Daang Maharlika (LZ) - K0556 + 000 - K0557 + 084, K0558 + 000 - K0559 + 777, K0559 + 819 - K0560 + 024, K0565 + 750 - K05655 + 811, K0565 + 845 - K0566 + 071, K0574 + 047 - K0574+147, K0574 + 173 - K0576 + 000, K0576 + 500 - K0576 + 577, K0577 + 562 - K0579 + 000, K0580 + 699 - K0581 + 571, K0584 + 950 - K0585 + 129, K0585 + 153 - K0585 + 287, K0595 + 473 - K0595 + 873, K0595 + 885 - K0596 + 093, K0597 + 240 - K0597 + 411, K0597 + 430 - K0597 + 535, K0598 + 347 - K0599 + 294		Off-Carriageway Improvement: Shoulder Paving / Construction	Square meters	30270	150,000,000	Central Office / Region V	

Revisions Flag