

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REPUBLIC OF THE PHILIPPINES**

**THE DETAILED DESIGN STUDY
ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(PLARIDEL, CABANATUAN AND SAN JOSE BYPASSES)**

INITIAL STAGE

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UNIT PRICE ANALYSIS

FOR

CABANATUAN BYPASS PACKAGE I

December 2002

**KATAHIRA & ENGINEERS INTERNATIONAL
YACHIYO ENGINEERING CO., LTD**

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2. Estimated Project Cost

Project : Upgrading Inter-Urban Highway System Along the Pan-Philippine Highway - Cabanatuan Bypass Initial Stage Package 1
 Location: Region III Central Luzon

- Explanation of columns
 ①, ②, ③, ④, ⑤ = Input
 ⑥, ⑦, ⑧ = percentage of markups
 ⑨ = ⑥ + ⑦ + ⑧
 ⑩ = ⑤ x ⑨
 ⑪ = (⑤ + ⑩) x VAT(10.0%)
 ⑫ = ⑩ + ⑪
 ⑬ = ⑤ + ⑫
 ⑭ = ⑬ ÷ ③
 ⑮ = ③ x ⑭

(Based on Department Order No. 57, 2002 of DPWH)

Total Estimated Direct Cost of the Project (PP)		Indirect Costs (maximum)		Mob/ Demob (max)	Markup (max)
Above	up to	OCM	Profit		
0	1,000,000	13.0%	15.0%	1.0%	29.0%
1,000,000	5,000,000	12.0%	14.0%	1.0%	27.0%
5,000,000	10,000,000	12.0%	13.0%	1.0%	26.0%
10,000,000	20,000,000	11.0%	12.0%	1.0%	24.0%
20,000,000	50,000,000	11.0%	11.0%	1.0%	23.0%
50,000,000		10.0%	10.0%	1.0%	21.0%

Adopted Markup Percentage: 9.1% 7.9% 0.0% 17.0%

Markup percentage are determined by the following equations:

Markup	Equation	Coefficients	
		a	b
OCM =	a · N · b	0.2284	-0.04660
Profit =	a + b · log(N)	0.2813	-0.02355
Mob/Demob =	Estimated under Item SPI. 800		

where, N: Total Estimated Direct Cost (PP)
 a, b: Coefficients

Value Added Tax = 10.0%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		YAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/ Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
Part A Facilities for the Engineer															
A(1)a	Provision of Combined Field Office/Laboratory Bldg. and Living Quarter	1.00	L.S.	2,370,000.00	9.1%	7.9%	0.0%	17.0%	402,900.00	277,290.00	680,190.00	3,050,190.00	3,050,190.00	3,050,190.00	0.627%
A(1)b	Maintenance of Field Office/Laboratory Bldg. and Living Quarter	32.00	month	2,688,000.00	9.1%	7.9%	0.0%	17.0%	456,960.00	314,496.00	771,456.00	3,459,456.00	108,108.00	3,459,456.00	0.711%
A(1)c	Provision of Furniture and Fixtures for the Field Office/Laboratory and Living Quarter	1.00	L.S.	549,000.00	9.1%	7.9%	0.0%	17.0%	93,330.00	64,233.00	157,563.00	706,563.00	706,563.00	706,563.00	0.145%
A(1)d	Provision of Equipment and Appliances for the Field Office/Laboratory Bldg. and Living Quarter	1.00	L.S.	313,000.00	9.1%	7.9%	0.0%	17.0%	53,210.00	36,621.00	89,831.00	402,831.00	402,831.00	402,831.00	0.083%
A(1)e	Provision of Office Supplies and Consumable	32.00	month	531,200.00	9.1%	7.9%	0.0%	17.0%	90,304.00	62,150.40	152,454.40	683,654.40	21,364.00	683,648.00	0.140%
A(1)f	Provide/Operate/Maintain Communication Equipment	32.00	month	167,040.00	9.1%	7.9%	0.0%	17.0%	28,396.80	19,543.68	47,940.48	214,980.48	6,718.00	214,976.00	0.044%
A(2)a	Provision of vehicles (sedan) for the Engineer (Rental including operation & maintenance)	32.00	veh·m	2,288,000.00	9.1%	7.9%	0.0%	17.0%	388,960.00	267,696.00	656,656.00	2,944,656.00	92,021.00	2,944,672.00	0.605%
A(2)b	Provision of vehicles (wagon) for the Engineer (Rental including operation & maintenance)	64.00	veh·m	5,542,400.00	9.1%	7.9%	0.0%	17.0%	942,208.00	648,460.80	1,590,668.80	7,133,068.80	111,454.00	7,133,056.00	1.465%
A(2)c	Provision of vehicles (pick-up) for the Engineer (Rental including operation & maintenance)	96.00	veh·m	4,800,000.00	9.1%	7.9%	0.0%	17.0%	816,000.00	561,600.00	1,377,600.00	6,177,600.00	64,350.00	6,177,600.00	1.269%
A(3)	Provision of Testing Equipment, Apparatus and Publications	1.00	L.S.	1,040,000.00	9.1%	7.9%	0.0%	17.0%	176,800.00	121,680.00	298,480.00	1,338,480.00	1,338,480.00	1,338,480.00	0.275%
A(4)	Progress Photographs	2,508.00	each	293,436.00	9.1%	7.9%	0.0%	17.0%	49,884.12	34,332.01	84,216.13	377,652.13	151.00	378,708.00	0.078%
Subtotal				20,582,078.00					3,498,952.82	2,408,102.89	5,907,055.81	26,499,131.91		26,499,180.00	5.442%
Part C Earthwork															
100(1)	Clearing and Grubbing	33.00	ha	1,273,800.00	9.1%	7.9%	0.0%	17.0%	216,546.00	149,034.60	365,580.60	1,639,380.60	49,678.00	1,639,374.00	0.337%
100(3)	Individual Removal of Trees, small (150mm ≤ φ < 900mm)	158.00	each	13,904.00	9.1%	7.9%	0.0%	17.0%	2,363.68	1,626.77	3,990.45	17,894.45	113.00	17,854.00	0.004%
100(4)	Individual Removal of Trees, large (φ > 900mm)	19.00	each	2,299.00	9.1%	7.9%	0.0%	17.0%	390.83	268.98	659.81	2,958.81	156.00	2,964.00	0.001%
101(1)	Removal of Structures and Obstructions	1.00	L.S.	79,000.00	9.1%	7.9%	0.0%	17.0%	13,430.00	9,243.00	22,673.00	101,673.00	101,673.00	101,673.00	0.021%
101(2)a	Removal of Existing Pedestrian Bridge (San Jose, at Bridge No.2)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(2)b	Removal of Existing Bridge (Plaridel at Bridge No.9)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(3)a	Removal of Existing PCC Pavement	3,547.00	m2	322,067.60	9.1%	7.9%	0.0%	17.0%	54,751.49	37,681.91	92,433.40	414,501.00	117.00	414,999.00	0.085%
101(3)b	Removal of Existing Gravel Pavement	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(4)a	Removal of Existing Fence (Net Fence with Barbed Wire and Wooden Posts)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(4)b	Removal of Existing Fence (Net Fence with Barbed Wire and Concrete Posts)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
101(4)c	Removal of Existing Fence (Concrete Hollow Block)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(5)a	Removal of Existing Guardrails	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(5)b	Relocation of Existing Guardrails	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(7)	Removal of Existing Slope Protection	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(8)	Removal of Existing Slope Protection (Hand-laid Rock)	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(9)	Removal of Existing Gabion	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 101(10)a	Relocation of Existing Transmission	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 101(10)b	Shutdown Charge for the Relocation of Transmission Line	0.00	day	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(11)	Removal of Existing Combination Concrete Curb & Gutter/Side Strip	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(12)	Relocation of Existing Road Signs	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(13)	Removal of Existing Road Signs	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(14)	Removal of Existing Concrete Revetment	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
102(1)	Unsuitable Excavation	237,600.00	m3	29,700,000.00	9.1%	7.9%	0.0%	17.0%	5,049,000.00	3,474,900.00	8,523,900.00	38,223,900.00	161.00	38,253,600.00	7.853%
102(2)	Surplus Common Excavation	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(1)	Structure Excavation	1,947.00	m3	284,262.00	9.1%	7.9%	0.0%	17.0%	48,324.54	33,258.65	81,583.19	365,845.19	188.00	366,036.00	0.075%
103(2)a	Bridge Excavation above OWL (Common Soil)	434.00	m3	63,364.00	9.1%	7.9%	0.0%	17.0%	10,771.88	7,413.59	18,185.47	81,549.47	188.00	81,592.00	0.017%
103(2)b	Bridge Excavation above OWL (Rocky)	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(2)c	Bridge Excavation below OWL (Common Soil)	596.00	m3	655,600.00	9.1%	7.9%	0.0%	17.0%	111,452.00	76,705.20	188,157.20	843,757.20	1,416.00	843,936.00	0.173%
103(2)d	Bridge Excavation below OWL (Rocky)	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(3)a	Gravel Foundation Fill	175.00	m3	72,275.00	9.1%	7.9%	0.0%	17.0%	12,286.75	8,456.18	20,742.93	93,017.93	532.00	93,100.00	0.019%
103(3)b	Selected Sand Bedding	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(6)	Pipe Culverts and Drain Excavation	8,977.00	m3	1,274,734.00	9.1%	7.9%	0.0%	17.0%	216,704.78	149,143.88	365,848.66	1,640,582.66	183.00	1,642,791.00	0.337%
103(7)	Granular Backfill for Pipe Culverts	4,777.00	m3	1,413,992.00	9.1%	7.9%	0.0%	17.0%	240,378.64	165,437.06	405,815.70	1,819,807.70	381.00	1,820,037.00	0.374%
104(1)	Embankment from Excavated Soil	3,794.00	m3	576,688.00	9.1%	7.9%	0.0%	17.0%	98,035.96	67,472.50	165,509.46	742,197.46	196.00	743,624.00	0.152%
104(3)	Embankment from Borrow Soil	623,042.00	m3	161,367,878.00	9.1%	7.9%	0.0%	17.0%	27,432,539.26	18,880,041.73	46,312,580.99	207,680,458.99	333.00	207,472,986.00	42.665%
104(4)	Embankment from Borrow (Selected Granular Material) for Bridge	1,125.00	m3	309,375.00	9.1%	7.9%	0.0%	17.0%	52,593.75	36,196.88	88,790.63	398,165.63	354.00	398,250.00	0.082%
105(1)	Subgrade Preparation (Common Soil)	8,713.00	m2	118,496.80	9.1%	7.9%	0.0%	17.0%	20,144.45	13,864.13	34,008.58	152,505.38	17.50	152,477.50	0.031%
105(2)	Subgrade Preparation (Existing Gravel Surface)	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			197,527,735.40					33,579,715.01	23,110,745.06	56,690,460.07	254,218,195.47		254,045,293.50	52.226%
Part D	Subbase and Base Course														
200(1)	Aggregate Subbase Course	36,700.00	m3	18,533,500.00	9.1%	7.9%	0.0%	17.0%	3,160,695.00	2,168,419.50	5,319,114.50	23,852,614.50	650.00	23,855,000.00	4.900%
200(2)	Aggregate Subbase Course using materials born by removal of existing gravel pavement	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
201(1)	Aggregate Base Course	12,958.00	m3	6,867,740.00	9.1%	7.9%	0.0%	17.0%	1,167,515.80	803,525.58	1,971,041.38	8,838,781.38	682.00	8,837,356.00	1.816%
204(1)	Cement Stabilized Sand Base Course	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			25,401,240.00					4,318,210.80	2,971,945.08	7,290,155.88	32,691,395.88		32,692,356.00	6.716%
Part E	Surface Courses														
300(1)	Gravel Surface Course	8,474.00	m3	4,279,370.00	9.1%	7.9%	0.0%	17.0%	727,492.90	500,686.29	1,228,179.19	5,507,549.19	650.00	5,508,100.00	1.131%
301(1)	Prime Coat	0.00	t	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
302(1)	Tack Coat	0.00	t	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
310(1)	Bituminous Concrete Surface Course, hot laid	0.00	t	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
310(2)	Asphalt Mixture Wearing Course (t=50mm) for bridge pavement	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
310(3)	Waterproofing Layer for Pampanga Deck Slab	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
311(1)a	PCC Pavement (Plain), t=280mm	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
311(1)b	PCC Pavement (Plain), t=250mm	74,141.00	m2	42,631,075.00	9.1%	7.9%	0.0%	17.0%	7,247,282.75	4,987,835.78	12,235,118.53	54,866,193.53	740.00	54,864,340.00	11.272%
311(1)c	PCC Pavement (Plain), t=230mm	4,362.00	m2	2,364,204.00	9.1%	7.9%	0.0%	17.0%	401,914.68	276,611.87	678,526.55	3,042,730.55	698.00	3,044,676.00	0.625%
311(1)d	PCC Pavement (Plain), t=180mm	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 311(1)e	PCC Pavement (Lean Mix Concrete)	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 311(2)	PCC Pavement (Reinforced), t=300mm (Approach Slab)	396.00	m2	815,760.00	9.1%	7.9%	0.0%	17.0%	138,679.20	95,443.92	234,123.12	1,049,883.12	2,651.00	1,049,796.00	0.216%
	Subtotal			50,090,409.00					8,515,369.53	5,860,577.88	14,375,947.39	64,466,356.39		64,466,912.00	13.244%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)				Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)		
Part F	Bridge Construction															
400(3)a	Steel H Piles (450mmx260kg/m)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(4)a	Precast RC Concrete Pile (400mm x 400mm), furnished	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	1,448.00	m	2,910,480.00	9.1%	7.9%	0.0%	17.0%	494,781.60	340,526.16	835,307.76	3,745,787.76	2,587.00	3,745,976.00	0.770%	
400(10)a	Steel H Piles (450mmx260kg/m), driven	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(13)a	Precast Concrete Piles (400mm x 400mm), driven	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(13)b	Precast Concrete Piles (450mm x 450mm), driven	1,233.00	m	431,550.00	9.1%	7.9%	0.0%	17.0%	73,363.50	50,491.35	123,854.85	555,404.85	450.00	554,850.00	0.114%	
400(15)a	Test Piles (400mm x 400mm), furnished & driven	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(15)b	Test Piles (450mm x 450mm), furnished & driven	74.00	m	170,200.00	9.1%	7.9%	0.0%	17.0%	28,934.00	19,913.40	48,847.40	219,047.40	2,960.00	219,040.00	0.045%	
400(15)c	Test Piles (Steel H Piles 480mmx260kg/m), furnished & driven	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(16)a	Cast-in-place Concrete Bored Piles ϕ 1000mm	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(16)b	Cast-in-place Concrete Bored Piles ϕ 1200mm	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(16)c	Cast-in-place Concrete Bored Piles ϕ 1500mm	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(16)d	Cast-in-place Concrete Bored Piles ϕ 800mm	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(19)a	Pile shoes for 400mm x 400mm Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(19)b	Pile shoes for 450mm x 450mm Piles	177.00	each	126,909.00	9.1%	7.9%	0.0%	17.0%	21,574.53	14,848.35	36,422.88	163,331.88	923.00	163,371.00	0.034%	
400(20)a	Splices for 400mm x 400mm Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(20)b	Splices for 450mm x 450mm Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
400(21)	Static Pile Load Test for ϕ 1500mm Bored Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 400(23)a	High Strain Dynamic Pile Test for ϕ 1000mm Bored Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 400(23)b	High Strain Dynamic Pile Test for ϕ 1200mm Bored Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 400(23)c	High Strain Dynamic Pile Test for ϕ 800mm Bored Piles	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 400(24)	Pile Integrity Test for Bored Piles of various diameter	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
401(1)a	Concrete Railing Type A (Concrete Posts and Precast Beams)	229.00	m	283,980.00	9.1%	7.9%	0.0%	17.0%	48,273.20	33,223.32	81,496.52	365,456.52	1,596.00	365,484.00	0.075%	
401(1)b	Concrete Railing Type B (Concrete Wall Type)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
401(2)a	Steel Railing Type A for Angat and Talavera Bridge, and Approach of Pampanga Bridge	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
401(2)b	Steel Railing Type B for Pampanga Main Bridge	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 401(3)a	Bridge Name Plate, 1000 x 600 mm for Angat Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 401(3)b	Bridge Name Plate, 1000 x 600 mm for Pampanga Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 401(3)c	Bridge Name Plate, 1000 x 600 mm for Talavera Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 401(3)d	Bridge Name Plate, 1000 x 600 mm for Interchange Ramp	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
403(3)	Structural Steel for Pampanga River Bridge, furnished and fabricated	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
403(5)	Structural Steel for Pampanga River Bridge, erected	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
403(8)a	Bearing Shoe for Steel Plate Girder Type I (Max. R=250t) in Pampanga Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
403(8)b	Bearing Shoe for Steel Plate Girder Type 2 (Max. R=650t) in Pampanga Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
403(8)c	Bearing Shoe for Steel Plate Girder Type 3 (Max. R=650t) in Pampanga Bridge	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
SPL 403(9)	Steel Grating for Sunlight Opening in Underpasses	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
404(1)	Reinforcement Steel Grade 40	171,431.00	kg	3,994,342.30	9.1%	7.9%	0.0%	17.0%	679,038.19	467,338.05	1,146,376.24	5,140,718.54	30.00	5,142,930.00	1.058%
404(2)	Reinforcement Steel Grade 60	161,396.00	kg	3,954,202.00	9.1%	7.9%	0.0%	17.0%	672,214.34	462,641.63	1,134,856.97	5,089,057.97	31.50	5,083,974.00	1.045%
405(1)a	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for heavily reinforced structures	1,776.00	m3	5,612,160.00	9.1%	7.9%	0.0%	17.0%	954,067.20	656,622.72	1,610,689.92	7,222,849.92	4,067.00	7,222,992.00	1.484%
405(1)b	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for small & medium bridges substructures	1,001.00	m3	2,252,250.00	9.1%	7.9%	0.0%	17.0%	382,882.50	263,513.25	646,395.75	2,898,645.75	2,896.00	2,898,896.00	0.595%
405(1)c	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges RC/DG	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
405(1)d	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges PC/DG	378.00	m3	1,512,000.00	9.1%	7.9%	0.0%	17.0%	257,040.00	178,904.00	433,944.00	1,945,944.00	5,148.00	1,945,944.00	0.400%
405(1)e	Structural Concrete Class AA1 (fc'=28MPa, max. aggregate 25) for long bridge substructures	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
405(1)f	Structural Concrete Class AA2 (fc'=28MPa, max. aggregate 20mm) for long bridge superstructures	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
405(2)	Structural Concrete Class B (fc'=17MPa, max. aggregate 50mm) for plain or lightly reinforced structures	1,827.00	m3	4,366,530.00	9.1%	7.9%	0.0%	17.0%	742,310.10	510,884.01	1,253,194.11	5,619,724.11	3,076.00	5,619,852.00	1.155%
405(3)	Structural Concrete Class C (fc'=21MPa, max. aggregate 12mm) for thin reinforced members	65.00	m3	168,350.00	9.1%	7.9%	0.0%	17.0%	28,619.50	19,698.95	48,318.45	216,668.45	3,333.00	216,645.00	0.045%
405(4)b	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed box girders in Angat Bridge	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
405(4)c	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed hollow slab girders	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
405(6)	Lean Concrete (17MPa, max. agg. 38mm), poured	174.00	m3	339,300.00	9.1%	7.9%	0.0%	17.0%	57,681.00	39,698.10	97,379.10	436,679.10	2,510.00	436,740.00	0.090%
406(1)a	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=20m), fabricated & erected	10.00	each	1,840,000.00	9.1%	7.9%	0.0%	17.0%	312,800.00	215,280.00	528,080.00	2,368,080.00	236,808.00	2,368,080.00	0.486%
406(1)b	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=22m), fabricated & erected	5.00	each	980,000.00	9.1%	7.9%	0.0%	17.0%	166,800.00	114,660.00	281,260.00	1,261,260.00	252,252.00	1,261,260.00	0.259%
406(1)c	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=24m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
406(1)d	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=25m), fabricated & erected	10.00	each	2,660,000.00	9.1%	7.9%	0.0%	17.0%	452,200.00	311,220.00	763,420.00	3,423,420.00	342,342.00	3,423,420.00	0.703%
406(1)e	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=30m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
406(1)f	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=31m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
406(1)g	Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=29.4m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	

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					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
406(1)h	Precast Prestressed Structural Concrete Member (AASHTO Girder Type V L=29.55m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)i	Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=33.5m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)j	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=35m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)k	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=36m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)l	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.4m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)m	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.55m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)n	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=40m), fabricated & erected	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)p	Precast Prestressed Structural Concrete (PC Deck Slab, 210 x 2000 x 9950mm)	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)a	Prestressing Steel 12-T12.7 for PC Box Girders of Angat Bridge, Longitudinal	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)b	Prestressing Steel 5-T12.7 for PC Box Girders of Angat Bridge, Transversal in Top Slab	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)c	Prestressing Bar φ32mm for PC Box Girders of Angat Bridge, Transversal in Diaphragms	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)d	Prestressing Bar φ32mm for PC Box Girders of Angat Bridge, Vertical in Webs	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)e	Prestressing Steel 12-T12.7 for PC Hollow Slab Bridge for Burgol Ramp C, Longitudinal	0.00	kg	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)a	Elastomeric Bearing Pad, Duro 60 (400x300x50mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)b	Elastomeric Bearing Pad, Duro 60 (600x300x50mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)c	Elastomeric Bearing Pad, Duro 60 (600x350x50mm)	50.00	each	1,075,000.00	9.1%	7.9%	0.0%	17.0%	182,750.00	125,775.00	308,525.00	1,383,525.00	27,671.00	1,383,550.00	0.284%
407(1)d	Elastomeric Bearing Pad, Duro 60 (600x700x89mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)e	Elastomeric Bearing Pad, Duro 60 (600x400x80mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)f	Elastomeric Bearing Pad, Duro 60 (450x300x60mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)g	Elastomeric Bearing Pad, Duro 60 (550x300x50mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)h	Elastomeric Bearing Pad, Duro 60 (600x400x80mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)a	Expansion Joint, Multiflex M80 (Elastomeric)	40.00	m	2,640,000.00	9.1%	7.9%	0.0%	17.0%	448,800.00	308,880.00	757,680.00	3,397,680.00	84,942.00	3,397,680.00	0.698%
407(2)b	Expansion Joint, Multiflex M100 (Elastomeric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)c	Expansion Joint, Multiflex M140 (Elastomeric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)d	Expansion Joint, Multiflex M160 (Elastomeric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)e	Expansion Joint, Multiflex M200 (Elastomeric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%

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					DCM	Profit	Mob/Demob	%	Value (PP)							
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮		
407(2)f	Expansion Joint, Multiflex M330 (Elastomeric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
407(2)g	Expansion Joint, 30mm for bridge	8.00	m	1,192.00	9.1%	7.9%	0.0%	17.0%	202.64	139.45	342.10	1,534.10	192.00	1,536.00	0.00%	
SPL 407(3)a	Restraining Bar ϕ 32 x 1495mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 407(3)b	Restraining Bar ϕ 32 x 1900mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 407(3)c	Restraining Cable ϕ 65 x 4121mm (PC 7-115.2)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 407(3)d	Restraining Cable ϕ 65 x 4224mm (PC 7-115.2)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
407(4)	G.I. Drain Pipe ϕ 150mm for Bridge Drainage	11.00	m	9,284.00	9.1%	7.9%	0.0%	17.0%	1,578.28	1,085.23	2,664.51	11,948.51	1,088.00	11,946.00	0.002%	
SPL 407(5)a	Pier Protection Concrete Blocks for Angat Bridge	0.00	m ²	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 407(5)b	Pier Protection Concrete Blocks for Pampanga Bridge	0.00	m ²	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 407(5)c	Pier Protection Concrete Blocks for Talavera Bridge	0.00	m ²	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(1)	Temporary Access Road Crossing Streams/Rivers	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(2)	Realignment of River/Stream	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(3)	False Works Required for Cantilever Construction for PC Box Girder (Angat River)	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(4)a	Temporary Craneway for Angat Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(4)b	Temporary Craneway for Pampanga Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(4)c	Temporary Craneway for Talavera Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(5)a	Temporary Access Road (Causeway) for Angat Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(5)b	Temporary Access Road (Causeway) for Pampanga Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(5)c	Temporary Access Road (Causeway) for Talavera Bridge Construction	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(6)a	Temporary Cofferdam for Pier Construction (Angat Bridge Type 1)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(6)b	Temporary Cofferdam for Pier Construction (Angat Bridge Type 2)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(6)c	Temporary Cofferdam for Pier Construction (Pampanga Bridge)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
SPL 420(6)d	Temporary Cofferdam for Pier Construction (Talavera Bridge)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
	Subtotal			35,327,709.30					6,005,710.58	4,133,341.98	10,139,052.56	45,466,751.86		45,464,168.00	9.341%	
Part G	Drainage and Slope Protection Structures															
500(1)a3	RCPC Standard Strength (25MPa), ϕ 460mm (18")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a4	RCPC Standard Strength (25MPa), ϕ 610mm (24")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a5	RCPC Standard Strength (25MPa), ϕ 760mm (30")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a6	RCPC Standard Strength (25MPa), ϕ 910mm (36")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a7	RCPC Standard Strength (25MPa), ϕ 1070mm (42")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a8	RCPC Standard Strength (25MPa), ϕ 1220mm (48")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)a9	RCPC Standard Strength (25MPa), ϕ 1520mm (60")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)b3	RCPC Standard Strength (32MPa), ϕ 460mm (18")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	
500(1)b4	RCPC Standard Strength (32MPa), ϕ 610mm (24")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
500(1)b5	RCPC Standard Strength (32MPa), ϕ 760mm (30")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b6	RCPC Standard Strength (32MPa), ϕ 910mm (36")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b7	RCPC Standard Strength (32MPa), ϕ 1070mm (42")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b8	RCPC Standard Strength (32MPa), ϕ 1220mm (48")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b9	RCPC Standard Strength (32MPa), ϕ 1520mm (60")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c3	RCPC Extra Strength (32MPa), ϕ 460mm (18")	108.00	m	102,816.00	9.1%	7.9%	0.0%	17.0%	17,478.72	12,029.47	29,508.19	132,324.19	1,225.00	132,300.00	0.027%
500(1)c4	RCPC Extra Strength (32MPa), ϕ 610mm (24")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c5	RCPC Extra Strength (32MPa), ϕ 760mm (30")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c6	RCPC Extra Strength (32MPa), ϕ 910mm (36")	1,359.00	m	4,294,440.00	9.1%	7.9%	0.0%	17.0%	730,054.80	502,449.48	1,232,504.28	5,526,944.28	4,067.00	5,527,053.00	1.135%
500(1)c7	RCPC Extra Strength (32MPa), ϕ 1070mm (42")	328.00	m	1,498,960.00	9.1%	7.9%	0.0%	17.0%	254,823.20	175,378.32	430,201.52	1,929,161.52	5,882.00	1,929,296.00	0.396%
500(1)c8	RCPC Extra Strength (32MPa), ϕ 1220mm (48")	534.00	m	2,670,000.00	9.1%	7.9%	0.0%	17.0%	453,900.00	312,390.00	766,290.00	3,436,290.00	6,435.00	3,436,290.00	0.706%
500(1)c9	RCPC Extra Strength (32MPa), ϕ 1520mm (60")	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a1	Drop Inlet Manhole for RCPC 1- ϕ 460 x 1- ϕ 460	9.00	each	55,080.00	9.1%	7.9%	0.0%	17.0%	9,363.60	6,444.36	15,807.96	70,887.96	7,876.00	70,884.00	0.015%
502(2)a2	Drop Inlet Manhole for RCPC 1- ϕ 610 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a3	Drop Inlet Manhole for RCPC 1- ϕ 760 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a4	Drop Inlet Manhole for RCPC 1- ϕ 910 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a5	Drop Inlet Manhole for RCPC 1- ϕ 1070 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a6	Drop Inlet Manhole for RCPC 1- ϕ 1220 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a7	Drop Inlet Manhole for RCPC 1- ϕ 1520 x 1- ϕ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a12	Drop Inlet Manhole for RCPC 1- ϕ 610 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a13	Drop Inlet Manhole for RCPC 1- ϕ 760 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a14	Drop Inlet Manhole for RCPC 1- ϕ 910 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a15	Drop Inlet Manhole for RCPC 1- ϕ 1070 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a16	Drop Inlet Manhole for RCPC 1- ϕ 1220 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a17	Drop Inlet Manhole for RCPC 1- ϕ 1520 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a22	Drop Inlet Manhole for RCPC 2- ϕ 610 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a23	Drop Inlet Manhole for RCPC 2- ϕ 760 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a24	Drop Inlet Manhole for RCPC 2- ϕ 910 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a25	Drop Inlet Manhole for RCPC 2- ϕ 1070 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a26	Drop Inlet Manhole for RCPC 2- ϕ 1220 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a27	Drop Inlet Manhole for RCPC 2- ϕ 1520 x 1- ϕ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
502(2)b1	Special Junction Box Manhole for RCPC 1-φ 460 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b2	Special Junction Box Manhole for RCPC 1-φ 610 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b3	Special Junction Box Manhole for RCPC 1-φ 760 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b4	Special Junction Box Manhole for RCPC 1-φ 910 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b5	Special Junction Box Manhole for RCPC 1-φ 1070 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b6	Special Junction Box Manhole for RCPC 1-φ 1220 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b7	Special Junction Box Manhole for RCPC 1-φ 1520 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b12	Special Junction Box Manhole for RCPC 1-φ 610 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b13	Special Junction Box Manhole for RCPC 1-φ 760 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b14	Special Junction Box Manhole for RCPC 1-φ 910 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b15	Special Junction Box Manhole for RCPC 1-φ 1070 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b16	Special Junction Box Manhole for RCPC 1-φ 1220 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b17	Special Junction Box Manhole for RCPC 1-φ 1520 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b21	Special Junction Box Manhole for RCPC 2-φ 460 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b22	Special Junction Box Manhole for RCPC 2-φ 610 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b23	Special Junction Box Manhole for RCPC 2-φ 760 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b24	Special Junction Box Manhole for RCPC 2-φ 910 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b25	Special Junction Box Manhole for RCPC 2-φ 1070 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b26	Special Junction Box Manhole for RCPC 2-φ 1220 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b27	Special Junction Box Manhole for RCPC 2-φ 1520 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b32	Special Junction Box Manhole for RCPC 2-φ 610 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b33	Special Junction Box Manhole for RCPC 2-φ 760 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b34	Special Junction Box Manhole for RCPC 2-φ 910 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b35	Special Junction Box Manhole for RCPC 2-φ 1070 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b36	Special Junction Box Manhole for RCPC 2-φ 1220 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)b37	Special Junction Box Manhole for RCPC 2-φ 1520 x 1-φ 610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c1	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ 460 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c2	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ 610 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c3	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ 760 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c4	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ 910 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c5	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ 1070 x 1-φ 460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
502(2)c6	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c7	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1520 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c12	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ610 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c13	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ760 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c14	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ910 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c15	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1070 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c16	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c17	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1520 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c21	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ460 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c22	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c23	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c24	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c25	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c26	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c27	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ460	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c32	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c33	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c34	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c35	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c36	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)c37	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ610	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a1	Catch Basin for RCPC 1-φ460mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a2	Catch Basin for RCPC 1-φ610mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a3	Catch Basin for RCPC 1-φ760mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a4	Catch Basin for RCPC 1-φ910mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a5	Catch Basin for RCPC 1-φ1070mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a6	Catch Basin for RCPC 1-φ1220mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a7	Catch Basin for RCPC 1-φ1520mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b1	Catch Basin for RCPC 2-φ460mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b2	Catch Basin for RCPC 2-φ610mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b3	Catch Basin for RCPC 2-φ760mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b4	Catch Basin for RCPC 2-φ910mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b5	Catch Basin for RCPC 2-φ1070mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b6	Catch Basin for RCPC 2-φ1220mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)b7	Catch Basin for RCPC 2-φ1520mm	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(4)a1	U-shaped Concrete Ditch W=0.50m x H=0.50m	660.00	m	897,600.00	9.1%	7.9%	0.0%	17.0%	152,592.00	105,019.20	257,611.20	1,155,211.20	1,750.00	1,155,000.00	0.237%
502(4)a2	U-shaped Concrete Ditch W=0.75m x H=0.50m	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(4)a3	U-shaped Concrete Ditch W=0.30m x H=0.30m	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
502(4)b1	U-shaped Concrete Ditch with Grating Cover, W=0.30m x H=0.30m	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(4)b2	U-shaped Concrete Ditch with Grating Cover, W=0.50m x H=0.50m	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(6)a	V-shaped Lined Ditch H=500mm, 1:1.50	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
502(6)b	V-shaped Lined Ditch H=500mm, 1:1.00	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.000%	
502(7)a	Trapezoidal Lined Ditch B=450mm, H=500mm, 1:1.00	1,772.00	m	469,580.00	9.1%	7.9%	0.0%	17.0%	79,828.60	54,940.86	134,769.46	604,349.46	341.00	604,252.00	0.124%
502(7)b	Trapezoidal Lined Ditch B=1000mm, H=500mm, 1:1.00	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	-0.00	0.00	0.00	0.000%
503(3)a	Cleaning Culvert in Place, φ910mm or less	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
503(3)b	Cleaning Culvert in Place, more than φ910mm	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
503(4)a	Cleaning Reconditioning of RCBC, Single Barrel	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
503(4)b	Cleaning Reconditioning of RCBC, Double Barrel	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
503(4)c	Cleaning Reconditioning of RCBC, Triple Barrel	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
504(5)	Grouted Riprap Class A (slope protection)	4,270.00	m3	3,492,860.00	9.1%	7.9%	0.0%	17.0%	593,786.20	408,684.62	1,002,450.82	4,495,310.82	1,053.00	4,496,310.00	0.924%
505(1)	Stone Masonry Retaining Wall	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
506(1)	Hand-Laid Rock Apron (Loose Boulder Apron)	121.00	m3	56,749.00	9.1%	7.9%	0.0%	17.0%	9,647.33	6,639.63	16,286.96	73,035.96	604.00	73,084.00	0.015%
507(2)a	Steel Sheet Piles (76x457x4mm), furnished & driven	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
507(2)b	Steel Sheet Piles (400x85x8mm), furnished & driven	819.00	m	1,105,650.00	9.1%	7.9%	0.0%	17.0%	187,960.50	129,361.05	317,321.55	1,422,971.55	1,737.00	1,422,603.00	0.292%
509(1)	Gabions	352.00	m3	647,680.00	9.1%	7.9%	0.0%	17.0%	110,105.60	75,778.56	185,884.16	833,564.16	2,368.00	833,536.00	0.171%
509(2)	Gabion Mattress t=300mm	0.00	m3	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
509(3)	Filter Cloth	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
510(1)	Rubble Concrete Slope Protection	108.00	m3	146,880.00	9.1%	7.9%	0.0%	17.0%	24,969.60	17,184.96	42,154.56	189,034.56	1,750.00	189,000.00	0.039%
	Subtotal			15,438,295.00					2,624,510.15	1,806,280.51	4,430,790.66	19,869,085.66		19,869,608.00	4.082%
Part H	Miscellaneous Structures														
600(1)a	Concrete Curb, Type A (200x450mm)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
600(1)b	Concrete Curb, Type B (175x318mm)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
600(3)a	Combination Concrete Curb & Gutter/Side Strip, Type A (675x364mm)	2,086.00	m	863,604.00	9.1%	7.9%	0.0%	17.0%	146,812.58	101,041.67	247,854.35	1,111,458.35	533.00	1,111,838.00	0.228%
600(3)b	Combination Concrete Curb & Gutter/Side Strip, Type B (675x334mm)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
600(3)c	Combination Concrete Curb & Gutter, Type C (475x334mm)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
601(1)	PCC Pavement for Sidewalk (t=100mm)	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
602(1)	Right-of-Way Monuments	519.00	each	182,688.00	9.1%	7.9%	0.0%	17.0%	31,056.96	21,374.50	52,431.46	235,119.46	453.00	235,107.00	0.048%
602(2)	Maintenance Marker Posts for Drainage Structure	132.00	each	108,636.00	9.1%	7.9%	0.0%	17.0%	18,468.12	12,710.41	31,178.53	139,814.53	1,059.00	139,788.00	0.029%
602(3)	Kilometer Post	9.00	each	11,070.00	9.1%	7.9%	0.0%	17.0%	1,881.90	1,295.19	3,177.09	14,247.09	1,583.00	14,247.00	0.003%
603(3)a	Metal Guardrails (Metal Beam) Type A (Embedded in Soil)	2,267.00	m	2,251,131.00	9.1%	7.9%	0.0%	17.0%	382,692.27	263,382.33	646,074.60	2,897,205.60	1,278.00	2,897,226.00	0.595%
603(3)b	Metal Guardrails (Metal Beam) Type B (Embedded in Concrete)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
604(1)	Fencing (Barbed Wire)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
604(2)	Fencing (Chain Link Fence Fabric)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
604(3)	Fencing (Chain Link Fence Fabric on Bridge Railing)	0.00	m	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(1)a	Warning Signs (Triangular 900mm)	25.00	each	174,000.00	9.1%	7.9%	0.0%	17.0%	29,580.00	20,358.00	49,938.00	223,938.00	8,958.00	223,950.00	0.046%
605(1)b	Warning Signs (Circular φ900mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(2)a	Regulatory Signs (Triangular 1039mm)	1.00	each	8,620.00	9.1%	7.9%	0.0%	17.0%	1,465.40	1,008.54	2,473.94	11,093.94	11,094.00	11,094.00	0.002%
605(2)b	Regulatory Signs (Octagonal 600mm)	4.00	each	24,680.00	9.1%	7.9%	0.0%	17.0%	4,195.60	2,887.56	7,083.16	31,763.16	7,941.00	31,764.00	0.007%
605(2)c	Regulatory Signs (Circular φ600mm)	11.00	each	65,560.00	9.1%	7.9%	0.0%	17.0%	11,145.20	7,670.52	18,815.72	84,375.72	7,671.00	84,381.00	0.017%
605(2)d	Regulatory Signs (Rectangular 450mmx750mm)	7.00	each	47,390.00	9.1%	7.9%	0.0%	17.0%	8,056.30	5,544.63	13,600.93	60,990.93	8,713.00	60,991.00	0.013%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)			Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Nob/Demob	%	Value (PP)						
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	
605(3)a	Informatory Signs (Rectangular 0.75mx1.00m, single post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)b	Informatory Signs (Type A, double post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)c	Informatory Signs (Type B, double post)	4.00	each	196,800.00	9.1%	7.9%	0.0%	17.0%	33,456.00	23,025.60	56,481.60	253,281.60	63,320.00	253,280.00	0.052%
605(3)d	Informatory Signs (Type C, double post)	3.00	each	237,800.00	9.1%	7.9%	0.0%	17.0%	40,392.00	27,799.20	68,191.20	305,791.20	101,930.00	305,790.00	0.063%
605(3)e	Informatory Signs (Type D, double post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)f	Informatory Signs (Type E, triple post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)g	Informatory Signs (Type F, triple post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)h	Informatory Signs (Type G, triple post)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(4)a	Special Signs (750x600mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(4)b	Special Signs (600x880mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(4)c	Special Signs (900x550mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(4)d	Special Signs (850x750mm)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
607(2)a	Reflectorized Pavement Studs (Raised Profile Type, one face reflective)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
607(2)b	Reflectorized Pavement Studs (Raised Profile Type, two faces reflective)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
607(3)	Chatter Bars (one side reflective)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
608(1)	Furnishing and Placing Top Soil for Plantation	21,796.00	m3	6,625,984.00	9.1%	7.9%	0.0%	17.0%	1,126,417.28	775,240.13	1,901,657.41	8,527,641.41	391.00	8,522,236.00	1.752%
610(1)	Sodding	113,031.00	m2	6,216,705.00	9.1%	7.9%	0.0%	17.0%	1,056,839.85	727,354.49	1,784,194.34	8,000,899.34	70.80	8,002,594.80	1.644%
611(1)a	Trees (Furnishing and Transplanting) Low Tree H≤1.5m	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(1)b	Trees (Furnishing and Transplanting) Medium Tree 1.5m<H≤3.0m	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(1)c	Trees (Furnishing and Transplanting) High Tree (young tree) 1.5m<H≤3.0m	902.00	each	992,200.00	9.1%	7.9%	0.0%	17.0%	168,674.00	116,087.40	284,761.40	1,276,961.40	1,416.00	1,277,232.00	0.262%
611(2)a	Trees (Transplanting) Low Tree H≤1.5m	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(2)b	Trees (Transplanting) Medium Tree 1.5m<H≤3.0m	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(2)c	Trees (Transplanting) High Tree (young tree) 1.5m<H≤3.0m	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(3)a	Planter Box of CHB (1.00m x 1.00m) for Road Side Plantation	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(3)b	Planter Box of CHB (3.00m x 1.00m) for Road Side Plantation	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(4)a	Planter Square Type A (1.13mx1.13m) for Road Side Plantation	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
611(4)b	Planter Square Type B (0.68mx1.70m) for Road Side Plantation	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
612(1)a	Reflectorized Thermoplastic Pavement Markings (White)	3,331.00	m2	1,505,612.00	9.1%	7.9%	0.0%	17.0%	255,954.04	176,156.60	432,110.64	1,937,722.64	582.00	1,938,642.00	0.398%
612(1)b	Reflectorized Thermoplastic Pavement Markings (Yellow)	142.00	m2	65,888.00	9.1%	7.9%	0.0%	17.0%	11,200.96	7,708.90	18,909.86	84,797.86	597.00	84,774.00	0.017%
SPL 612(2)	Removal of Existing Thermoplastic Pavement Markings	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
615(1)a	Delineator (ground standing type)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
615(1)b	Delineator (attached on guardrail)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
615(2)a	Curve Mirror 1-φ600	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
615(2)b	Curve Mirror 2-φ600	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
615(3)	Dustproof Concrete Paving for Median	0.00	m2	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 620(1)a	Traffic Signal Pole Type A (Mast Arm Post H=6.7m)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 620(1)b	Traffic Signal Pole Type A (Mast Arm Post H=6.0m)	4.00	each	169,200.00	9.1%	7.9%	0.0%	17.0%	28,764.00	19,796.40	48,560.40	217,760.40	54,440.00	217,760.00	0.045%
SPL 620(1)c	Traffic Signal Pole Type B (φ114.3mm x 4.2m)	6.00	each	127,800.00	9.1%	7.9%	0.0%	17.0%	21,726.00	14,952.60	36,678.60	164,478.60	27,413.00	164,478.00	0.034%
SPL 620(1)d	Traffic Signal Pole Type C (φ114.3mm x 3.4m)	9.00	each	197,100.00	9.1%	7.9%	0.0%	17.0%	33,507.00	23,080.70	56,587.70	253,667.70	28,185.00	253,665.00	0.052%
SPL 620(1)e	Traffic Signal Pole Type D (φ114.3mm x 3.0m)	2.00	each	38,400.00	9.1%	7.9%	0.0%	17.0%	6,528.00	4,492.80	11,020.80	49,420.80	24,710.00	49,420.00	0.010%
SPL 620(2)a	Traffic Signal Lamps Type A (6 vehicle lamps)	3.00	each	582,000.00	9.1%	7.9%	0.0%	17.0%	98,940.00	68,094.00	167,034.00	749,034.00	249,678.00	749,034.00	0.154%

Item No.	Description	Quantity	Unit	Estimated Direct Cost (PP)	Markups (%)				Total Markup		VAT (PP)	Total Indirect Cost (PP)	Total Cost (PP)	Unit Cost (PP)	Total Cost (PP)	Remarks
					OCM	Profit	Mob/Demob	%	Value (PP)							
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮		
SPL 620(2)b	Traffic Signal Lamps Type B (3 vehicle lamps)	20.00	each	2,100,000.00	9.1%	7.9%	0.0%	17.0%	357,000.00	245,700.00	602,700.00	2,702,700.00	135,135.00	2,702,700.00	0.555%	
SPL 620(2)c	Traffic Signal Lamps Type C (2 pedestrian lamps)	10.00	each	506,000.00	9.1%	7.9%	0.0%	17.0%	86,020.00	59,202.00	145,222.00	651,222.00	65,122.00	651,220.00	0.134%	
SPL 620(4)a	Street Lighting Poles (single lamp)	1.00	each	48,200.00	9.1%	7.9%	0.0%	17.0%	8,194.00	5,639.40	13,833.40	62,033.40	62,033.00	62,033.00	0.013%	
SPL 620(4)b	Street Lighting Poles (double lamp)	38.00	each	2,283,800.00	9.1%	7.9%	0.0%	17.0%	388,246.00	267,204.60	655,450.60	2,939,250.60	77,349.00	2,939,262.00	0.604%	
SPL 620(4)c	Bridge Lighting Poles (single lamp)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%	
SPL 620(4)d	Street Lighting Service Pole with Panel	2.00	each	98,400.00	9.1%	7.9%	0.0%	17.0%	16,728.00	11,512.80	28,240.80	126,640.80	63,320.00	126,540.00	0.026%	
SPL 620(4)e	Fluorescent Lighting for Underpass Culvert	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%	
SPL 620(5)a	Relocation of Street Lighting Poles (Single Lamp)	0.00	each	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%	
SPL 620(5)b	Relocation of Street Lighting Poles (Dual Lamp)	0.00	0	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%	
SPL 620(6)	Toll Gate Facilities	0.00	L.S.	0.00	9.1%	7.9%	0.0%	17.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%	
	Subtotal			26,728,068.00					4,373,941.56	3,010,309.97	7,384,242.53	33,113,310.53		33,111,146.80	6.803%	
Part K	Mobilization and Demobilization															
SPL 800	Mobilization and Demobilization	1.00	L.S.	1,170,000.00	9.1%	7.9%	0.0%	17.0%	198,900.00	136,890.00	335,790.00	1,505,790.00	1,505,790.00	1,505,790.00	0.309%	
	Subtotal			1,170,000.00					198,900.00	136,890.00	335,790.00	1,505,790.00		1,505,790.00	0.309%	
Part X	Provisional Sum															
SPL 900(1)	Provisional Sum for Traffic Management during Construction	1.00	L.S.	976,000.00	9.1%	7.9%	0.0%	17.0%	165,920.00	114,192.00	280,112.00	1,256,112.00	1,256,112.00	1,256,112.00	0.258%	
SPL 900(2)	Provisional Sum for Relocation of Existing Utilities	1.00	L.S.	1,150,000.00	9.1%	7.9%	0.0%	17.0%	195,500.00	134,550.00	330,050.00	1,480,050.00	1,480,050.00	1,480,050.00	0.304%	
SPL 900(3)	Provisional Sum for Geotechnical Investigation	1.00	L.S.	752,000.00	9.1%	7.9%	0.0%	17.0%	127,840.00	87,984.00	215,824.00	967,824.00	967,824.00	967,824.00	0.199%	
SPL 900(4)	Provisional Sum for Maintenance and Repair of Existing Access Road	1.00	L.S.	413,000.00	9.1%	7.9%	0.0%	17.0%	70,210.00	48,321.00	118,531.00	531,531.00	531,531.00	531,531.00	0.109%	
SPL 900(5)	Provisional Sum for Environmental Compliance Requirements	1.00	L.S.	922,000.00	9.1%	7.9%	0.0%	17.0%	156,740.00	107,874.00	264,614.00	1,186,614.00	1,186,614.00	1,186,614.00	0.244%	
SPL 900(6)	Provisional Sum for Health and Safety Requirements	1.00	L.S.	647,000.00	9.1%	7.9%	0.0%	17.0%	109,990.00	75,699.00	185,689.00	832,689.00	832,689.00	832,689.00	0.171%	
SPL 900(7)	Provisional Sum for Overseas Development Assistance (ODA)	1.00	L.S.	191,000.00	9.1%	7.9%	0.0%	17.0%	32,470.00	22,347.00	54,817.00	245,817.00	245,817.00	245,817.00	0.051%	
SPL 900(8)	Provisional Sum for Contingency	1.00	L.S.	1,900,000.00	9.1%	7.9%	0.0%	17.0%	323,000.00	222,300.00	545,300.00	2,445,300.00	2,445,300.00	2,445,300.00	0.502%	
	Subtotal			8,951,000.00					1,181,670.00	813,267.00	1,994,937.00	8,945,937.00		8,945,937.00	1.835%	
	Total			378,217,532.70					64,296,980.55	44,251,451.35	108,548,431.90	486,765,964.60		486,591,389.30	100.000%	

Prepared/Submitted By:

Recommending Approval:

Approved:

3. Summary of Direct Cost

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	Por.	Local		Labor	Material	Equipment	Foreign	Local		
Part A	Facilities for the Engineer															
A(1)a	Provision of Combined Field Office/Laboratory Bldg. and Living Quarter	L.S.	1.00	7.0%	76.1%	16.9%	52.6%	47.4%	2,370,000.00	165,170.95	1,803,194.60	401,634.45	1,247,670.44	1,122,329.56	2,370,000.00	
A(1)b	Maintenance of Field Office/Laboratory Bldg. and Living Quarter	month	32.00	85.8%	14.0%	0.2%	6.3%	93.7%	84,000.00	2,305,535.10	377,436.86	5,028.03	169,222.72	2,518,777.28	2,688,000.00	
A(1)c	Provision of Furniture and Fixtures for the Field Office/Laboratory and Living Quarter	L.S.	1.00	0.1%	99.1%	0.8%	33.5%	66.5%	549,000.00	815.35	543,836.14	4,348.51	183,972.49	365,027.51	549,000.00	
A(1)d	Provision of Equipment and Appliances for the Field Office/Laboratory Bldg. and Living Quarter	L.S.	1.00	0.1%	99.1%	0.8%	63.7%	36.3%	313,000.00	464.85	310,055.94	2,479.21	199,463.99	113,536.01	313,000.00	
A(1)e	Provision of Office Supplies and Consumable	month	32.00	0.3%	98.1%	1.6%	36.0%	64.0%	16,600.00	1,562.35	521,305.10	8,332.55	191,215.32	339,984.68	531,200.00	
A(1)f	Provide/Operate/Maintain Communication Equipment	month	32.00	0.3%	99.3%	0.4%	59.4%	40.6%	5,220.00	503.60	165,874.85	661.54	99,288.89	67,751.11	167,040.00	
A(2)a	Provision of vehicles (sedan) for the Engineer (Rental including operation & maintenance)	veh-m	32.00	17.8%	8.0%	74.2%	68.2%	31.8%	71,500.00	407,211.40	182,896.10	1,697,892.51	1,559,712.48	728,287.52	2,288,000.00	
A(2)b	Provision of vehicles (wagon) for the Engineer (Rental including operation & maintenance)	veh-m	64.00	14.7%	6.7%	78.6%	71.1%	28.9%	86,600.00	814,881.82	370,845.24	4,356,672.93	3,938,459.50	1,603,940.50	5,542,400.00	
A(2)c	Provision of vehicles (pick-up) for the Engineer (Rental including operation & maintenance)	veh-m	96.00	25.4%	11.2%	63.4%	61.1%	38.9%	50,000.00	1,218,792.31	537,112.68	3,044,095.02	2,931,613.91	1,868,386.09	4,800,000.00	
A(3)	Provision of Testing Equipment, Apparatus and Publications	L.S.	1.00	0.1%	99.6%	0.3%	72.6%	27.4%	1,040,000.00	776.12	1,035,601.99	3,621.89	755,242.36	284,757.64	1,040,000.00	
A(4)	Progress Photographs	each	2,508.00	3.4%	96.1%	0.5%	25.2%	74.8%	117.00	10,073.17	281,965.51	1,397.31	73,905.87	219,530.13	293,436.00	
Part C	Earthwork															
100(1)	Clearing and Grubbing	ha	33.00	35.4%	5.4%	59.3%	35.6%	64.4%	38,600.00	450,338.09	68,658.51	754,803.40	453,199.80	820,600.20	1,273,800.00	
100(3)	Individual Removal of Trees, small (150mm ≤ φ < 900mm)	each	158.00	92.6%	0.7%	6.7%	4.1%	95.9%	88.00	12,874.07	102.99	926.93	566.46	13,337.54	13,904.00	
100(4)	Individual Removal of Trees, large (φ > 900mm)	each	19.00	92.6%	0.7%	6.7%	4.1%	95.9%	121.00	2,128.70	17.03	153.27	93.66	2,205.34	2,299.00	
101(1)	Removal of Structures and Obstructions	L.S.	1.00	11.3%	8.2%	80.5%	48.9%	51.1%	79,000.00	8,947.36	6,483.23	63,569.41	38,669.77	40,330.23	79,000.00	
101(2)a	Removal of Existing Pedestrian Bridge (San Jose, at Bridge No.2)	each	0.00	12.3%	8.4%	79.4%	48.4%	51.6%	66,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(2)b	Removal of Existing Bridge (Flaridel at Bridge No.9)	each	0.00	12.3%	8.4%	79.4%	48.4%	51.6%	102,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(3)a	Removal of Existing PCC Pavement	m2	3,547.00	8.2%	8.9%	82.9%	50.8%	49.2%	90.80	26,548.26	28,547.36	266,871.98	163,658.60	158,409.00	322,067.60	
101(3)b	Removal of Existing Gravel Pavement	m2	0.00	15.4%	12.6%	72.0%	47.3%	52.7%	36.80	0.00	0.00	0.00	0.00	0.00	0.00	
101(4)a	Removal of Existing Fence (Net Fence with Barbed Wire and Wooden Posts)	m	0.00	72.4%	4.1%	22.5%	14.9%	84.1%	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
101(4)b	Removal of Existing Fence (Net Fence with Barbed Wire and Concrete Posts)	m	0.00	65.7%	5.0%	29.3%	19.2%	80.8%	21.10	0.00	0.00	0.00	0.00	0.00	0.00	
101(4)c	Removal of Existing Fence (Concrete Hollow Block)	m	0.00	48.3%	5.3%	46.4%	28.7%	71.3%	89.90	0.00	0.00	0.00	0.00	0.00	0.00	
101(5)a	Removal of Existing Guardrails	m	0.00	68.8%	6.2%	25.0%	17.6%	82.4%	41.70	0.00	0.00	0.00	0.00	0.00	0.00	
101(5)b	Relocation of Existing Guardrails	m	0.00	95.2%	2.9%	1.9%	2.6%	97.4%	124.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(7)	Removal of Existing Slope Protection	m3	0.00	12.4%	7.6%	80.1%	48.4%	51.6%	769.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(8)	Removal of Existing Slope Protection (Hand-laid Rock)	m3	0.00	13.4%	11.8%	74.7%	48.3%	51.7%	180.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(9)	Removal of Existing Gabion	m3	0.00	19.1%	11.1%	69.8%	45.2%	54.8%	192.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 101(10)a	Relocation of Existing Transmission	L.S.	0.00	6.6%	74.3%	19.2%	57.6%	42.4%	4,440,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 101(10)b	Shutdown Charge for the Relocation of Transmission Line	day	0.00	0.4%	99.1%	0.5%	49.6%	50.4%	2,040,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(11)	Removal of Existing Combination Concrete Curb & Gutter/Side Strip	m	0.00	25.3%	14.8%	59.8%	42.0%	58.0%	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(12)	Relocation of Existing Road Signs	each	0.00	34.4%	26.9%	38.7%	32.6%	67.4%	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(13)	Removal of Existing Road Signs	each	0.00	26.0%	10.6%	63.4%	41.3%	58.7%	421.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(14)	Removal of Existing Concrete Revetment	L.S.	0.00	11.3%	8.2%	80.5%	48.9%	51.1%	62,800.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
103(1)	Unsuitable Excavation	m3	237,600.00	6.9%	13.6%	79.5%	52.0%	48.0%	125.00	2,050,104.10	4,039,286.50	23,610,609.40	15,452,315.58	14,247,684.42	29,700,000.00		
103(2)	Surplus Common Excavation	m3	0.00	6.9%	13.6%	79.5%	52.0%	48.0%	125.00	0.00	0.00	0.00	0.00	0.00	0.00		
103(1)	Structure Excavation	m3	1,947.00	6.8%	10.5%	82.6%	51.8%	48.2%	146.00	19,449.07	29,916.66	234,896.26	147,139.00	137,123.00	284,262.00		
103(2)a	Bridge Excavation above OWL (Common Soil)	m3	434.00	6.8%	10.6%	82.6%	51.8%	48.2%	146.00	4,337.64	6,701.86	52,324.49	32,800.37	30,563.63	63,364.00		
103(2)b	Bridge Excavation above OWL (Rocky Soil)	m3	0.00	5.0%	9.2%	85.8%	52.6%	47.4%	278.00	0.00	0.00	0.00	0.00	0.00	0.00		
103(2)c	Bridge Excavation below OWL (Common Soil)	m3	596.00	9.2%	29.4%	61.5%	49.6%	50.4%	1,100.00	60,150.75	192,561.41	402,887.84	325,025.51	330,574.49	655,600.00		
103(2)d	Bridge Excavation below OWL (Rocky Soil)	m3	0.00	8.6%	26.4%	65.0%	50.0%	50.0%	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
103(3)a	Gravel Foundation Fill	m3	175.00	24.0%	13.2%	62.8%	39.7%	60.3%	413.00	17,332.25	9,556.22	45,386.53	28,658.43	43,616.57	72,275.00		
103(3)b	Selected Sand Bedding	m3	0.00	32.3%	15.3%	52.4%	34.3%	65.7%	297.00	0.00	0.00	0.00	0.00	0.00	0.00		
103(6)	Pipe Culverts and Drain Excavation	m3	8,977.00	7.6%	12.4%	79.9%	51.5%	48.5%	142.00	96,952.28	158,668.80	1,019,112.91	656,970.33	617,763.67	1,274,734.00		
103(7)	Granular Backfill for Pipe Culverts	m3	4,777.00	29.4%	16.2%	54.4%	36.0%	64.0%	296.00	415,773.80	229,048.44	769,169.76	509,648.18	904,343.82	1,413,992.00		
104(1)	Embankment from Excavated Soil	m3	3,794.00	5.2%	10.9%	83.9%	52.7%	47.3%	152.00	30,044.73	62,675.67	483,967.59	303,714.85	272,973.15	576,688.00		
104(3)	Embankment from Borrow Soil	m3	623,042.00	6.2%	20.5%	73.2%	48.6%	51.4%	259.00	10,018,147.39	33,160,738.53	118,188,992.09	78,484,438.22	82,883,439.78	161,367,878.00		
104(4)	Embankment from Borrow (Selected Granular Material) for Bridge	m3	1,125.00	10.6%	17.4%	71.9%	46.1%	53.9%	275.00	32,867.64	53,937.33	222,570.04	142,554.08	166,820.92	309,375.00		
105(1)	Subgrade Preparation (Common Soil)	m2	8,713.00	7.1%	8.3%	84.6%	51.4%	48.6%	13.60	8,419.49	9,807.15	100,270.16	60,872.90	57,623.90	118,496.80		
105(2)	Subgrade Preparation (Existing Gravel Surface)	m2	0.00	7.1%	8.3%	84.6%	51.4%	48.6%	13.60	0.00	0.00	0.00	0.00	0.00	0.00		
Part D																	
200(1)	Subbase and Base Course Aggregate Subbase Course	m3	36,700.00	8.5%	13.6%	77.9%	48.5%	51.5%	505.00	1,579,638.64	2,511,697.28	14,442,164.08	8,991,681.63	9,541,818.37	18,533,500.00		
200(2)	Aggregate Subbase Course using materials born by removal of existing gravel pavement	m3	0.00	7.0%	8.5%	84.5%	51.4%	48.6%	150.00	0.00	0.00	0.00	0.00	0.00	0.00		
201(1)	Aggregate Base Course	m3	12,958.00	8.6%	13.3%	78.1%	48.6%	51.4%	530.00	588,162.84	916,382.23	5,363,194.92	3,337,496.91	3,530,243.09	6,867,740.00		
204(1)	Cement Stabilized Sand Base Course	m3	0.00	6.3%	40.5%	53.2%	51.7%	48.3%	616.00	0.00	0.00	0.00	0.00	0.00	0.00		
Part E																	
300(1)	Surface Courses Gravel Surface Course	m3	8,474.00	9.7%	14.2%	76.0%	47.9%	52.1%	505.00	416,075.44	609,610.80	3,253,683.76	2,051,945.29	2,227,424.71	4,279,370.00		
301(1)	Prime Coat	t	0.00	0.5%	98.6%	0.9%	64.5%	35.5%	23,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
302(1)	Tack Coat	t	0.00	0.6%	98.5%	0.9%	64.4%	35.6%	23,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
310(1)	Bituminous Concrete Surface Course, hot laid	t	0.00	0.7%	93.2%	6.1%	63.8%	36.2%	3,020.00	0.00	0.00	0.00	0.00	0.00	0.00		
310(2)	Asphalt Mixture Wearing Course (t=50mm) for bridge pavement	m2	0.00	0.7%	93.3%	6.0%	63.8%	36.2%	365.00	0.00	0.00	0.00	0.00	0.00	0.00		
310(3)	Waterproofing Layer for Pampanga Deck Slab	m2	0.00	30.8%	64.9%	4.3%	44.3%	55.7%	32.10	0.00	0.00	0.00	0.00	0.00	0.00		
311(1)a	PCC Pavement (Plain), t=280mm	m2	0.00	7.3%	63.9%	28.9%	53.9%	46.1%	622.00	0.00	0.00	0.00	0.00	0.00	0.00		
311(1)b	PCC Pavement (Plain), t=250mm	m2	74,141.00	7.6%	62.9%	29.4%	53.7%	46.3%	575.00	3,256,517.67	26,827,716.78	12,546,840.55	22,873,269.84	19,757,805.16	42,631,075.00		
311(1)c	PCC Pavement (Plain), t=230mm	m2	4,362.00	7.9%	62.2%	29.9%	53.5%	46.5%	542.00	187,931.52	1,469,984.34	706,288.14	1,264,325.21	1,099,878.79	2,364,204.00		
311(1)d	PCC Pavement (Plain), t=180mm	m2	0.00	8.9%	60.0%	31.1%	53.0%	47.0%	461.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 311(1)e	PCC Pavement (Lean Mix Concrete)	m3	0.00	12.9%	47.3%	39.9%	49.2%	50.8%	2,470.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 311(2)	PCC Pavement (Reinforced), t=300mm (Approach Slab)	m2	396.00	11.8%	74.0%	14.2%	53.8%	46.2%	2,060.00	95,958.74	604,038.98	115,762.27	438,835.00	376,925.00	815,760.00		
Part F																	
400(3)a	Bridge Construction Steel H Piles (450mmx260kg/m)	m	0.00	2.3%	81.1%	16.6%	65.4%	34.6%	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(4)a	Precast RC Concrete Pile (400mm x 400mm), furnished	m	0.00	11.8%	71.0%	17.2%	54.2%	45.8%	1,580.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	m	1,448.00	11.8%	71.0%	17.1%	54.2%	45.8%	2,010.00	344,610.05	2,067,178.46	498,691.49	1,576,197.32	1,334,282.68	2,910,480.00		
400(10)a	Steel H Piles (450mmx260kg/m), driven	m	0.00	6.6%	33.6%	59.8%	54.6%	45.4%	623.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(13)a	Precast Concrete Piles (400mm x 400mm), driven	m	0.00	8.7%	12.5%	78.8%	51.3%	48.7%	330.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(13)b	Precast Concrete Piles (450mm x 450mm), driven	m	1,233.00	8.7%	12.5%	78.8%	51.3%	48.7%	350.00	37,578.27	54,012.34	339,959.39	221,345.86	210,204.14	431,550.00		
400(15)a	Test Piles (400mm x 400mm), furnished & driven	m	0.00	11.4%	62.4%	26.2%	53.8%	46.2%	1,850.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(15)b	Test Piles (450mm x 450mm), furnished & driven	m	74.00	11.5%	63.7%	24.8%	53.8%	46.2%	2,300.00	19,512.49	108,493.58	42,193.93	91,616.07	78,583.93	170,200.00		
400(15)c	Test Piles (Steel H Piles 460mmx260kg/m), furnished & driven	m	0.00	2.6%	77.3%	20.0%	64.6%	35.4%	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Component (PP)						
				Lab.	Mat.	Equip.	For.	Local			Material	Equipment	Foreign	Local			
400(16)a	Cast-in-place Concrete Bored Piles φ 1000mm	m	0.00	7.8%	44.2%	47.9%	57.1%	42.9%	12,500.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(16)b	Cast-in-place Concrete Bored Piles φ 1200mm	m	0.00	8.3%	48.1%	43.6%	57.1%	42.9%	16,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(16)c	Cast-in-place Concrete Bored Piles φ 1500mm	m	0.00	8.4%	50.3%	41.3%	57.0%	43.0%	24,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(16)d	Cast-in-place Concrete Bored Piles φ 800mm	m	0.00	7.7%	39.0%	53.3%	57.2%	42.8%	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(19)a	Pile shoes for 400mm x 400mm Piles	each	0.00	6.5%	89.9%	3.6%	62.0%	38.0%	717.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(19)b	Pile shoes for 450mm x 450mm Piles	each	177.00	6.5%	89.9%	3.6%	62.0%	38.0%	717.00	8,243.70	114,038.26	4,627.03	78,731.36	48,177.64	126,909.00		
400(20)a	Splices for 400mm x 400mm Piles	each	0.00	0.5%	98.3%	1.2%	69.2%	30.8%	1,310.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(20)b	Splices for 450mm x 450mm Piles	each	0.00	0.5%	98.2%	1.2%	69.2%	30.8%	1,310.00	0.00	0.00	0.00	0.00	0.00	0.00		
400(21)	Static Pile Load Test for φ 1500mm Bored Piles	each	0.00	30.4%	13.8%	55.8%	43.6%	56.4%	121,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 400(23)a	High Strain Dynamic Pile Test for φ 1000mm Bored Piles	each	0.00	30.4%	13.8%	55.8%	43.6%	56.4%	123,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 400(23)b	High Strain Dynamic Pile Test for φ 1200mm Bored Piles	each	0.00	30.4%	13.8%	55.9%	43.6%	56.4%	126,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 400(23)c	High Strain Dynamic Pile Test for φ 800mm Bored Piles	each	0.00	30.4%	13.8%	55.8%	43.6%	56.4%	120,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 400(24)	Pile Integrity Test for Bored Piles of various diameter	each	0.00	30.3%	13.8%	55.9%	43.7%	56.3%	163,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
401(1)a	Concrete Railing Type A (Concrete Posts and Precast Beams)	m	229.00	26.8%	64.4%	8.8%	38.5%	61.5%	1,240.00	76,143.99	182,803.63	25,012.38	109,381.40	174,578.60	283,960.00		
401(1)b	Concrete Railing Type B (Concrete Wall Type)	m	0.00	25.2%	62.9%	11.9%	38.6%	61.4%	1,380.00	0.00	0.00	0.00	0.00	0.00	0.00		
401(2)a	Steel Railing Type A for Angat and Talavera Bridge, and Approach of Pampanga Bridge	m	0.00	7.2%	74.6%	18.3%	62.4%	37.6%	2,740.00	0.00	0.00	0.00	0.00	0.00	0.00		
401(2)b	Steel Railing Type B for Pampanga Main Bridge	m	0.00	2.1%	71.2%	3.7%	50.9%	26.0%	2,740.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 401(3)a	Bridge Name Plate, 1000 x 600 mm for Angat Bridge	each	0.00	5.1%	85.4%	9.5%	65.0%	35.0%	32,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 401(3)b	Bridge Name Plate, 1000 x 600 mm for Pampanga Bridge	each	0.00	5.1%	85.4%	9.5%	65.0%	35.0%	32,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 401(3)c	Bridge Name Plate, 1000 x 600 mm for Talavera Bridge	each	0.00	5.1%	86.4%	9.5%	65.0%	35.0%	32,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 401(3)d	Bridge Name Plate, 1000 x 600 mm for Interchange Ramp	each	0.00	5.1%	85.4%	9.5%	65.0%	35.0%	32,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
403(3)	Structural Steel for Pampanga River Bridge, furnished and fabricated	kg	0.00	2.7%	76.9%	20.4%	66.3%	33.7%	74.40	0.00	0.00	0.00	0.00	0.00	0.00		
403(5)	Structural Steel for Pampanga River Bridge, erected	kg	0.00	6.0%	58.0%	35.9%	50.7%	49.3%	11.60	0.00	0.00	0.00	0.00	0.00	0.00		
403(8)a	Bearing Shoe for Steel Plate Girder Type 1 (Max. R=250t) in Pampanga Bridge	each	0.00	0.4%	98.2%	1.4%	69.4%	30.6%	300,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
403(8)b	Bearing Shoe for Steel Plate Girder Type 2 (Max. R=650t) in Pampanga Bridge	each	0.00	0.1%	98.7%	1.2%	69.6%	30.4%	782,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
403(8)c	Bearing Shoe for Steel Plate Girder Type 3 (Max. R=650t) in Pampanga Bridge	each	0.00	0.1%	98.7%	1.2%	69.6%	30.4%	782,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 403(9)	Steel Grating for Sunlight Opening in Underpasses	m2	0.00	6.5%	78.2%	15.2%	62.0%	38.0%	5,810.00	0.00	0.00	0.00	0.00	0.00	0.00		
404(1)	Reinforcement Steel Grade 40	kg	171,431.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	606,614.59	3,075,858.61	311,869.10	2,156,742.50	1,837,599.80	3,994,342.30		
404(2)	Reinforcement Steel Grade 60	kg	161,396.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	571,890.19	3,078,956.11	303,355.70	2,154,257.67	1,799,944.33	3,954,202.00		
405(1)a	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for heavily reinforced structures	m3	1,776.00	25.3%	57.2%	17.5%	35.7%	64.3%	3,160.00	1,420,154.37	3,209,576.23	982,429.41	2,006,222.48	3,605,937.52	5,612,160.00		
405(1)b	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for small & medium bridges substructures	m3	1,001.00	12.6%	64.8%	22.6%	47.3%	52.7%	2,250.00	283,698.28	1,460,285.71	508,266.02	1,065,752.81	1,186,497.19	2,252,250.00		
405(1)c	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges RCDC	m3	0.00	25.9%	56.4%	17.6%	36.1%	63.9%	4,110.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
405(1)d	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges PCBG	m3	378.00	21.2%	58.1%	20.8%	39.4%	60.6%	4,000.00	320,268.79	877,860.30	313,870.91	596,313.02	915,686.98	1,512,000.00	
405(1)e	Structural Concrete Class AA1 (fc'=28MPa, max. aggregate 25) for long bridge substructures	m3	0.00	11.0%	67.5%	21.5%	49.4%	50.6%	2,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
405(1)f	Structural Concrete Class AA2 (fc'=28MPa, max. aggregate 20mm) for long bridge superstructures	m3	0.00	21.5%	58.9%	19.5%	39.4%	60.6%	4,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
405(2)	Structural Concrete Class B (fc'=17MPa, max. aggregate 50mm) for plain or lightly reinforced structures	m3	1,827.00	22.3%	57.6%	20.1%	38.2%	61.8%	2,390.00	973,013.10	2,515,860.35	877,656.56	1,667,601.48	2,698,928.52	4,366,530.00	
405(3)	Structural Concrete Class C (fc'=21MPa, max. aggregate 12mm) for thin reinforced members	m3	65.00	16.5%	64.3%	19.2%	43.7%	56.3%	2,590.00	27,718.81	108,253.82	32,377.37	73,518.61	94,831.39	168,350.00	
405(4)b	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed box girders in Angat Bridge	m3	0.00	26.8%	52.3%	20.9%	39.1%	60.9%	4,170.00	0.00	0.00	0.00	0.00	0.00	0.00	
405(4)c	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed hollow slab girders	m3	0.00	28.1%	55.2%	16.6%	37.1%	62.9%	4,810.00	0.00	0.00	0.00	0.00	0.00	0.00	
405(6)	Lean Concrete (17MPa, max. agg. 38mm), poured	m3	174.00	8.6%	67.6%	23.8%	49.7%	50.3%	1,950.00	29,030.92	229,455.72	80,813.36	168,701.86	170,598.14	339,300.00	
406(1)a	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=20m), fabricated & erected	each	10.00	11.3%	81.1%	7.6%	57.6%	42.4%	184,000.00	208,691.90	1,491,683.88	139,624.22	1,059,687.36	780,312.64	1,840,000.00	
406(1)b	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=22m), fabricated & erected	each	5.00	11.5%	80.9%	7.7%	57.4%	42.6%	196,000.00	112,291.19	792,432.75	75,276.05	562,062.24	417,937.76	980,000.00	
406(1)c	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=24m), fabricated & erected	each	0.00	10.2%	83.4%	6.4%	59.2%	40.8%	258,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)d	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=25m), fabricated & erected	each	10.00	10.3%	83.3%	6.5%	59.1%	40.9%	266,000.00	272,692.66	2,215,373.01	171,934.33	1,572,473.27	1,087,526.73	2,660,000.00	
406(1)e	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=30m), fabricated & erected	each	0.00	9.3%	82.6%	8.0%	59.8%	40.2%	377,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)f	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=31m), fabricated & erected	each	0.00	9.4%	82.6%	8.1%	59.8%	40.2%	385,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)g	Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=29.4m), fabricated & erected	each	0.00	10.3%	81.1%	8.6%	58.5%	41.5%	432,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)h	Precast Prestressed Structural Concrete Member (AASHTO Girder Type V L=29.55m), fabricated & erected	each	0.00	10.3%	81.1%	8.6%	58.5%	41.5%	434,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)i	Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=33.5m), fabricated & erected	each	0.00	9.8%	82.1%	8.1%	59.2%	40.8%	485,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)j	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=35m), fabricated & erected	each	0.00	9.7%	81.7%	8.7%	59.2%	40.8%	538,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)k	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=36m), fabricated & erected	each	0.00	9.7%	81.6%	8.7%	59.1%	40.9%	550,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)l	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.4m), fabricated & erected	each	0.00	10.4%	80.8%	8.8%	58.2%	41.8%	710,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)m	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.55m), fabricated & erected	each	0.00	10.4%	80.8%	8.8%	58.2%	41.8%	711,000.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
406(1)n	Precast Prestressed Structural Concrete Members (ASHTO Girder Type VI(mod) 1=40m), fabricated & erected	each	0.00	9.9%	81.2%	8.9%	58.7%	41.3%	644,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(1)p	Precast Prestressed Structural Concrete (PC Deck Slab, 210 x 2000 x 9950mm)	m2	0.00	9.9%	83.8%	6.4%	60.4%	39.6%	6,740.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(3)a	Prestressing Steel 12-T12.7 for PC Box Girders of Angat Bridge, Longitudinal	kg	0.00	8.8%	86.3%	4.9%	63.5%	36.5%	228.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(3)b	Prestressing Steel 5-T12.7 for PC Box Girders of Angat Bridge, Transversal in Top Slab	kg	0.00	12.8%	78.9%	8.2%	59.3%	40.7%	219.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(3)c	Prestressing Bar ϕ 32mm for PC Box Girders of Angat Bridge, Transversal in Diaphragms	kg	0.00	7.2%	87.3%	5.5%	65.0%	35.0%	262.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(3)d	Prestressing Bar ϕ 32mm for PC Box Girders of Angat Bridge, Vertical in Webs	kg	0.00	7.8%	85.6%	6.5%	65.0%	35.0%	379.00	0.00	0.00	0.00	0.00	0.00	0.00	
406(3)e	Prestressing Steel 12-T12.7 for PC Hollow Slab Bridge for Burgol Ramp C, Longitudinal	kg	0.00	10.1%	85.4%	4.5%	62.1%	37.9%	185.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)a	Elastomeric Bearing Pad, Duro 60 (400x300x50mm)	each	0.00	2.8%	96.0%	1.2%	63.0%	37.0%	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)b	Elastomeric Bearing Pad, Duro 60 (600x300x50mm)	each	0.00	1.7%	97.1%	1.2%	63.9%	36.1%	19,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)c	Elastomeric Bearing Pad, Duro 60 (600x350x50mm)	each	50.00	1.5%	97.3%	1.2%	64.0%	36.0%	21,500.00	16,109.98	1,046,242.96	12,647.06	688,203.62	386,796.38	1,075,000.00	
407(1)d	Elastomeric Bearing Pad, Duro 60 (600x700x89mm)	each	0.00	0.4%	98.4%	1.2%	65.2%	34.8%	85,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)e	Elastomeric Bearing Pad, Duro 60 (600x400x60mm)	each	0.00	1.1%	97.8%	1.2%	64.5%	35.5%	30,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)f	Elastomeric Bearing Pad, Duro 60 (450x300x60mm)	each	0.00	1.5%	97.3%	1.2%	64.6%	35.4%	21,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)g	Elastomeric Bearing Pad, Duro 60 (550x300x50mm)	each	0.00	2.1%	96.7%	1.2%	63.4%	36.6%	15,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(1)h	Elastomeric Bearing Pad, Duro 60 (500x400x60mm)	each	0.00	1.1%	97.7%	1.2%	64.7%	35.3%	28,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)a	Expansion Joint, Multiflex M80 (Elastomeric)	m	40.00	0.3%	98.6%	1.2%	64.8%	35.2%	66,000.00	6,864.13	2,602,064.76	31,071.11	1,709,712.80	930,287.20	2,640,000.00	
407(2)b	Expansion Joint, Multiflex M100 (Elastomeric)	m	0.00	0.3%	98.6%	1.2%	64.8%	35.2%	76,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)c	Expansion Joint, Multiflex M140 (Elastomeric)	m	0.00	0.2%	98.6%	1.2%	64.8%	35.2%	95,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)d	Expansion Joint, Multiflex M160 (Elastomeric)	m	0.00	0.2%	98.6%	1.2%	64.8%	35.2%	109,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)e	Expansion Joint, Multiflex M200 (Elastomeric)	m	0.00	0.2%	98.6%	1.2%	64.8%	35.2%	125,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)f	Expansion Joint, Multiflex M330 (Elastomeric)	m	0.00	0.2%	98.6%	1.2%	64.8%	35.2%	255,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(2)g	Expansion Joint, 30mm for bridge	m	8.00	10.6%	88.5%	0.7%	53.5%	46.5%	149.00	128.34	1,055.40	8.26	637.61	554.39	1,192.00	
SPL 407(3)a	Restraining Bar ϕ 32 x 1495mm	each	0.00	6.4%	88.4%	5.2%	61.8%	38.2%	6,170.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 407(3)b	Restraining Bar ϕ 32 x 1900mm	each	0.00	6.0%	88.8%	5.2%	62.2%	37.8%	6,590.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 407(3)c	Restraining Cable ϕ 65 x 4121mm (PC 7-T15.2)	each	0.00	2.8%	94.3%	3.0%	65.9%	34.1%	26,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 407(3)d	Restraining Cable ϕ 65 x 4224mm (PC 7-T15.2)	each	0.00	3.2%	93.8%	3.0%	65.3%	34.7%	22,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
407(4)	G.I. Drain Pipe ϕ 150mm for Bridge Drainage	m	11.00	10.5%	87.4%	2.0%	53.8%	46.2%	844.00	978.07	8,116.65	189.29	4,996.20	4,287.80	9,284.00	
SPL 407(5)a	Pier Protection Concrete Blocks for Angat Bridge	m2	0.00	13.6%	55.0%	31.5%	50.0%	50.0%	808.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 407(5)b	Pier Protection Concrete Blocks for Pampanga Bridge	m2	0.00	13.6%	54.9%	31.5%	50.0%	50.0%	809.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 407(5)c	Pier Protection Concrete Blocks for Talavera Bridge	m2	0.00	13.7%	55.5%	30.9%	50.1%	49.9%	845.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(1)	Temporary Access Road Crossing Streams/Rivers	L.S.	0.00	8.9%	30.7%	60.4%	50.2%	49.8%	1,560,000.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
SPL 420(2)	Realignment of River/Stream False Works Required for Cantilever Construction for PC Box Girder (Angat River)	L. S.	0.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(3)	Temporary Craneway for Angat Bridge Construction	L. S.	0.00	7.7%	7.4%	84.6%	54.6%	45.4%	32,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(4)a	Temporary Craneway for Pampanga Bridge Construction	m	0.00	1.6%	93.1%	5.3%	49.6%	50.4%	120,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(4)b	Temporary Craneway for Talavera Bridge Construction	m	0.00	1.4%	94.4%	4.3%	49.7%	50.3%	132,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(4)c	Temporary Access Road (Causeway) for Angat Bridge Construction	m	0.00	6.3%	17.4%	76.3%	50.0%	50.0%	7,820.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(5)a	Temporary Access Road (Causeway) for Pampanga Bridge Construction	m	0.00	6.4%	17.3%	76.4%	49.9%	50.1%	6,440.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(5)c	Temporary Access Road (Causeway) for Talavera Bridge Construction	m	0.00	6.3%	17.4%	76.3%	50.0%	50.0%	9,890.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)a	Temporary Cofferdam for Pier Construction (Angat Bridge Type 1)	each	0.00	9.5%	44.8%	45.8%	48.2%	51.8%	2,310,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)b	Temporary Cofferdam for Pier Construction (Angat Bridge Type 2)	each	0.00	10.1%	42.1%	47.8%	48.1%	51.9%	2,960,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)c	Temporary Cofferdam for Pier Construction (Pampanga Bridge)	each	0.00	10.1%	40.9%	49.0%	48.1%	51.9%	2,410,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)d	Temporary Cofferdam for Pier Construction (Talavera Bridge)	each	0.00	8.8%	45.4%	45.8%	48.5%	51.5%	1,690,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
Part G	Drainage and Slope Protection Structures															
500(1)a3	RCPC Standard Strength (25MPa), φ 460mm (18")	m	0.00	19.9%	50.3%	29.9%	46.8%	53.2%	731.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a4	RCPC Standard Strength (25MPa), φ 610mm (24")	m	0.00	17.7%	53.8%	28.6%	48.3%	51.7%	1,120.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a5	RCPC Standard Strength (25MPa), φ 760mm (30")	m	0.00	17.0%	55.6%	27.4%	48.8%	51.2%	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a6	RCPC Standard Strength (25MPa), φ 910mm (36")	m	0.00	14.7%	55.1%	30.2%	50.2%	49.8%	2,510.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a7	RCPC Standard Strength (25MPa), φ 1070mm (42")	m	0.00	14.3%	56.3%	29.3%	50.5%	49.5%	3,210.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a8	RCPC Standard Strength (25MPa), φ 1220mm (48")	m	0.00	13.9%	57.3%	28.8%	50.8%	49.2%	3,960.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)a9	RCPC Standard Strength (25MPa), φ 1520mm (60")	m	0.00	13.1%	57.7%	29.2%	51.3%	48.7%	5,850.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b3	RCPC Standard Strength (32MPa), φ 460mm (18")	m	0.00	19.7%	52.9%	27.4%	47.3%	52.7%	784.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b4	RCPC Standard Strength (32MPa), φ 610mm (24")	m	0.00	17.5%	56.1%	26.5%	48.7%	51.3%	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b5	RCPC Standard Strength (32MPa), φ 760mm (30")	m	0.00	16.9%	57.1%	25.9%	49.1%	50.9%	1,640.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b6	RCPC Standard Strength (32MPa), φ 910mm (36")	m	0.00	14.7%	57.0%	28.3%	50.5%	49.5%	2,660.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b7	RCPC Standard Strength (32MPa), φ 1070mm (42")	m	0.00	14.4%	57.8%	27.8%	50.6%	49.4%	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b8	RCPC Standard Strength (32MPa), φ 1220mm (48")	m	0.00	14.0%	59.0%	27.0%	51.0%	49.0%	4,170.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b9	RCPC Standard Strength (32MPa), φ 1520mm (60")	m	0.00	13.2%	59.4%	27.3%	51.5%	48.5%	6,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c3	RCPC Extra Strength (32MPa), φ 460mm (18")	m	108.00	18.0%	55.6%	26.3%	48.4%	51.6%	952.00	18,557.66	57,170.70	27,087.64	49,758.44	53,057.56	102,816.00	
500(1)c4	RCPC Extra Strength (32MPa), φ 610mm (24")	m	0.00	16.5%	57.5%	26.0%	49.3%	50.7%	1,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c5	RCPC Extra Strength (32MPa), φ 760mm (30")	m	0.00	15.9%	59.0%	25.0%	49.8%	50.2%	1,960.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c6	RCPC Extra Strength (32MPa), φ 910mm (36")	m	1,359.00	14.1%	58.6%	27.4%	50.9%	49.1%	3,160.00	603,902.16	2,514,696.50	1,175,841.34	2,187,257.10	2,107,182.90	4,294,440.00	

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
500(1)c7	RCPC Extra Strength (32MPa), φ1070mm (42")	m	328.00	13.8%	60.8%	25.4%	51.4%	48.6%	4,570.00	206,719.49	911,200.28	381,040.23	770,023.90	728,936.10	1,498,960.00	
500(1)c8	RCPC Extra Strength (32MPa), φ1220mm (48")	m	534.00	13.5%	60.3%	26.2%	51.4%	48.6%	5,000.00	359,153.62	1,610,640.85	700,205.53	1,372,326.23	1,297,673.77	2,670,000.00	
500(1)c9	RCPC Extra Strength (32MPa), φ1520mm (60")	m	0.00	12.9%	61.8%	25.4%	51.9%	48.1%	8,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a1	Drop Inlet Manhole for RCPC 1-φ460 x 1-φ460	each	9.00	31.4%	59.4%	9.3%	33.1%	66.9%	6,120.00	17,268.12	32,705.10	5,106.78	18,232.65	36,847.35	55,080.00	
502(2)a2	Drop Inlet Manhole for RCPC 1-φ610 x 1-φ460	each	0.00	31.3%	59.2%	9.5%	33.0%	67.0%	7,160.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a3	Drop Inlet Manhole for RCPC 1-φ760 x 1-φ460	each	0.00	31.4%	58.9%	9.7%	32.6%	67.4%	8,550.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a4	Drop Inlet Manhole for RCPC 1-φ910 x 1-φ460	each	0.00	31.5%	58.7%	9.8%	32.4%	67.6%	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a5	Drop Inlet Manhole for RCPC 1-φ1070 x 1-φ460	each	0.00	31.6%	58.5%	9.9%	32.2%	67.8%	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a6	Drop Inlet Manhole for RCPC 1-φ1220 x 1-φ460	each	0.00	31.8%	58.2%	10.0%	31.8%	68.2%	13,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a7	Drop Inlet Manhole for RCPC 1-φ1520 x 1-φ460	each	0.00	32.0%	57.9%	10.1%	31.5%	68.5%	16,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a12	Drop Inlet Manhole for RCPC 1-φ610 x 1-φ610	each	0.00	31.1%	59.2%	9.6%	33.1%	66.9%	7,860.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a13	Drop Inlet Manhole for RCPC 1-φ760 x 1-φ610	each	0.00	31.2%	59.0%	9.9%	32.8%	67.2%	9,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a14	Drop Inlet Manhole for RCPC 1-φ910 x 1-φ610	each	0.00	31.3%	58.7%	10.0%	32.5%	67.5%	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a15	Drop Inlet Manhole for RCPC 1-φ1070 x 1-φ610	each	0.00	31.4%	58.6%	10.0%	32.4%	67.6%	12,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a16	Drop Inlet Manhole for RCPC 1-φ1220 x 1-φ610	each	0.00	31.5%	58.3%	10.2%	32.1%	67.9%	14,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a17	Drop Inlet Manhole for RCPC 1-φ1520 x 1-φ610	each	0.00	31.7%	58.0%	10.3%	31.7%	68.3%	17,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a22	Drop Inlet Manhole for RCPC 2-φ610 x 1-φ610	each	0.00	30.4%	59.4%	10.2%	33.8%	66.2%	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a23	Drop Inlet Manhole for RCPC 2-φ760 x 1-φ610	each	0.00	30.6%	59.0%	10.4%	33.3%	66.7%	14,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a24	Drop Inlet Manhole for RCPC 2-φ910 x 1-φ610	each	0.00	30.8%	58.8%	10.4%	33.0%	67.0%	17,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a25	Drop Inlet Manhole for RCPC 2-φ1070 x 1-φ610	each	0.00	30.8%	58.6%	10.5%	32.8%	67.2%	20,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a26	Drop Inlet Manhole for RCPC 2-φ1220 x 1-φ610	each	0.00	31.1%	58.3%	10.6%	32.4%	67.6%	24,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a27	Drop Inlet Manhole for RCPC 2-φ1520 x 1-φ610	each	0.00	31.4%	57.9%	10.6%	32.0%	68.0%	31,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b1	Special Junction Box Manhole for RCPC 1-φ460 x 1-φ460	each	0.00	33.1%	60.8%	6.2%	33.6%	66.4%	7,660.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b2	Special Junction Box Manhole for RCPC 1-φ610 x 1-φ460	each	0.00	32.9%	60.5%	6.5%	33.5%	66.5%	8,790.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b3	Special Junction Box Manhole for RCPC 1-φ760 x 1-φ460	each	0.00	33.0%	60.1%	7.0%	33.0%	67.0%	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b4	Special Junction Box Manhole for RCPC 1-φ910 x 1-φ460	each	0.00	33.0%	59.7%	7.3%	32.7%	67.3%	12,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b5	Special Junction Box Manhole for RCPC 1-φ1070 x 1-φ460	each	0.00	33.1%	59.4%	7.5%	32.4%	67.6%	13,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b6	Special Junction Box Manhole for RCPC 1-φ1220 x 1-φ460	each	0.00	33.2%	59.0%	7.7%	32.0%	68.0%	15,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b7	Special Junction Box Manhole for RCPC 1-φ1520 x 1-φ460	each	0.00	27.2%	64.5%	8.3%	38.9%	61.1%	27,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b12	Special Junction Box Manhole for RCPC 1-φ610 x 1-φ610	each	0.00	32.7%	60.6%	6.7%	33.6%	66.4%	9,610.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b13	Special Junction Box Manhole for RCPC 1-φ760 x 1-φ610	each	0.00	32.8%	60.1%	7.1%	33.2%	66.8%	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b14	Special Junction Box Manhole for RCPC 1-φ910 x 1-φ610	each	0.00	32.9%	59.7%	7.4%	32.8%	67.2%	13,000.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign	Local			
502(2)b15	Special Junction Box Manhole for RCPC 1-φ1070 x 1-φ610	each	0.00	32.8%	59.5%	7.7%	32.7%	67.3%	14,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b16	Special Junction Box Manhole for RCPC 1-φ1220 x 1-φ610	each	0.00	33.0%	59.1%	7.9%	32.2%	67.8%	16,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b17	Special Junction Box Manhole for RCPC 1-φ1520 x 1-φ610	each	0.00	27.0%	64.6%	8.4%	39.1%	60.9%	29,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b21	Special Junction Box Manhole for RCPC 2-φ460 x 1-φ460	each	0.00	32.6%	60.7%	6.7%	33.8%	66.2%	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b22	Special Junction Box Manhole for RCPC 2-φ610 x 1-φ460	each	0.00	32.5%	60.4%	7.0%	33.7%	66.3%	12,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b23	Special Junction Box Manhole for RCPC 2-φ760 x 1-φ460	each	0.00	32.7%	59.9%	7.4%	33.1%	66.9%	15,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b24	Special Junction Box Manhole for RCPC 2-φ910 x 1-φ460	each	0.00	32.7%	59.5%	7.6%	32.7%	67.3%	18,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b25	Special Junction Box Manhole for RCPC 2-φ1070 x 1-φ460	each	0.00	37.4%	54.7%	8.0%	27.0%	73.0%	16,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b26	Special Junction Box Manhole for RCPC 2-φ1220 x 1-φ460	each	0.00	33.1%	58.8%	8.1%	32.0%	68.0%	24,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b27	Special Junction Box Manhole for RCPC 2-φ1520 x 1-φ460	each	0.00	27.3%	64.1%	8.6%	38.7%	61.3%	46,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b32	Special Junction Box Manhole for RCPC 2-φ610 x 1-φ610	each	0.00	32.2%	60.5%	7.3%	33.9%	66.1%	13,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b33	Special Junction Box Manhole for RCPC 2-φ760 x 1-φ610	each	0.00	32.3%	60.0%	7.7%	33.4%	66.6%	16,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b34	Special Junction Box Manhole for RCPC 2-φ910 x 1-φ610	each	0.00	32.4%	59.6%	8.0%	33.0%	67.0%	19,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b35	Special Junction Box Manhole for RCPC 2-φ1070 x 1-φ610	each	0.00	32.4%	59.5%	8.2%	32.9%	67.1%	22,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b36	Special Junction Box Manhole for RCPC 2-φ1220 x 1-φ610	each	0.00	32.6%	59.0%	8.4%	32.4%	67.6%	26,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b37	Special Junction Box Manhole for RCPC 2-φ1520 x 1-φ610	each	0.00	27.2%	64.1%	8.7%	38.8%	61.2%	48,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c1	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ460 x 1-φ460	each	0.00	34.5%	52.7%	12.8%	32.0%	68.0%	3,950.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c2	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ610 x 1-φ460	each	0.00	34.2%	52.7%	13.2%	32.3%	67.7%	4,340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c3	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ760 x 1-φ460	each	0.00	34.1%	52.5%	13.4%	32.3%	67.7%	4,750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c4	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ910 x 1-φ460	each	0.00	34.0%	52.4%	13.6%	32.3%	67.7%	5,120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c5	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1070 x 1-φ460	each	0.00	33.9%	52.3%	13.8%	32.4%	67.6%	5,580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c6	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ460	each	0.00	33.8%	52.2%	14.0%	32.5%	67.5%	5,960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c7	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1520 x 1-φ460	each	0.00	33.7%	52.0%	14.3%	32.5%	67.5%	6,740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c12	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ610 x 1-φ610	each	0.00	34.0%	52.6%	13.4%	32.3%	67.7%	4,770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c13	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ760 x 1-φ610	each	0.00	33.8%	52.4%	13.8%	32.5%	67.5%	5,190.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c14	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ910 x 1-φ610	each	0.00	33.8%	52.3%	14.0%	32.5%	67.5%	5,620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c15	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1070 x 1-φ610	each	0.00	33.6%	52.2%	14.2%	32.6%	67.4%	6,040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c16	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ610	each	0.00	33.5%	52.1%	14.3%	32.6%	67.4%	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c17	Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1520 x 1-φ610	each	0.00	33.3%	52.0%	14.7%	32.8%	67.2%	7,360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c21	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ460 x 1-φ460	each	0.00	33.9%	52.4%	13.8%	32.5%	67.5%	5,380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c22	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ460	each	0.00	33.8%	52.1%	14.1%	32.5%	67.5%	6,280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)c23	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ460	each	0.00	33.6%	52.0%	14.4%	32.6%	67.4%	7,190.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
502(2)c24	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ460	each	0.00	33.6%	51.8%	14.6%	32.6%	67.4%	8,080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c25	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ460	each	0.00	33.4%	51.8%	14.7%	32.7%	67.3%	9,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c26	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ460	each	0.00	33.4%	51.7%	14.9%	32.7%	67.3%	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c27	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ460	each	0.00	33.3%	51.6%	15.1%	32.7%	67.3%	11,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c32	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ610	each	0.00	33.5%	52.0%	14.5%	32.7%	67.3%	6,870.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c33	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ610	each	0.00	33.3%	51.9%	14.8%	32.8%	67.2%	7,840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c34	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ610	each	0.00	33.1%	51.8%	15.0%	32.9%	67.1%	8,830.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c35	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ610	each	0.00	33.1%	51.7%	15.2%	32.9%	67.1%	9,910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c36	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ610	each	0.00	33.0%	51.7%	15.3%	33.0%	67.0%	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(2)c37	Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ610	each	0.00	32.9%	51.6%	15.6%	33.1%	66.9%	12,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a1	Catch Basin for RCPC 1-φ460mm	each	0.00	27.0%	60.1%	12.9%	35.9%	64.1%	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a2	Catch Basin for RCPC 1-φ610mm	each	0.00	27.0%	60.1%	12.9%	35.8%	64.2%	14,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a3	Catch Basin for RCPC 1-φ760mm	each	0.00	27.0%	60.0%	13.0%	35.8%	64.2%	17,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a4	Catch Basin for RCPC 1-φ910mm	each	0.00	27.0%	60.0%	13.0%	35.8%	64.2%	19,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a5	Catch Basin for RCPC 1-φ1070mm	each	0.00	27.0%	60.0%	13.0%	35.8%	64.2%	23,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a6	Catch Basin for RCPC 1-φ1220mm	each	0.00	27.0%	60.0%	13.0%	35.8%	64.2%	26,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)a7	Catch Basin for RCPC 1-φ1520mm	each	0.00	27.0%	60.0%	13.0%	35.8%	64.2%	34,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b1	Catch Basin for RCPC 2-φ460mm	each	0.00	26.2%	60.5%	13.3%	36.6%	63.4%	16,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b2	Catch Basin for RCPC 2-φ610mm	each	0.00	26.1%	60.5%	13.4%	36.7%	63.3%	20,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b3	Catch Basin for RCPC 2-φ760mm	each	0.00	25.9%	60.6%	13.5%	36.9%	63.1%	25,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b4	Catch Basin for RCPC 2-φ910mm	each	0.00	25.9%	60.6%	13.6%	36.9%	63.1%	31,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b5	Catch Basin for RCPC 2-φ1070mm	each	0.00	25.8%	60.6%	13.6%	37.0%	63.0%	37,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b6	Catch Basin for RCPC 2-φ1220mm	each	0.00	25.7%	60.7%	13.6%	37.1%	62.9%	43,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(3)b7	Catch Basin for RCPC 2-φ1520mm	each	0.00	25.6%	60.7%	13.7%	37.1%	62.9%	57,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(4)a1	U-shaped Concrete Ditch W=0.50m x H=0.50m	m	660.00	28.1%	58.1%	13.9%	34.6%	65.4%	1,360.00	252,032.84	521,212.05	124,355.11	310,829.39	586,770.61	897,600.00	
502(4)a2	U-shaped Concrete Ditch W=0.75m x H=0.50m	m	0.00	26.6%	58.8%	14.7%	36.2%	63.8%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(4)a3	U-shaped Concrete Ditch W=0.30m x H=0.30m	m	0.00	27.3%	58.7%	14.0%	35.6%	64.4%	941.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(4)b1	U-shaped Concrete Ditch with Grating Cover, W=0.30m x H=0.30m	m	0.00	22.0%	68.4%	9.6%	43.8%	56.2%	1,490.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(4)b2	U-shaped Concrete Ditch with Grating Cover, W=0.50m x H=0.50m	m	0.00	21.7%	69.0%	9.3%	44.3%	55.7%	2,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(6)a	V-shaped Lined Ditch H=500mm, 1:1.50	m	0.00	29.8%	48.8%	21.3%	39.9%	60.1%	384.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(6)b	V-shaped Lined Ditch H=500mm, 1:1.00	m	0.00	29.8%	48.8%	21.3%	39.9%	60.1%	359.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502(7)a	Trapezoidal Lined Ditch B=450mm, H=500mm, 1:1.00	m	1,772.00	29.8%	48.8%	21.3%	39.9%	60.1%	265.00	140,152.37	229,238.29	100,189.34	187,153.15	282,426.85	469,580.00	
502(7)b	Trapezoidal Lined Ditch B=1000mm, H=500mm, 1:1.00	m	0.00	29.8%	48.8%	21.3%	39.9%	60.1%	374.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503(3)a	Cleaning Culvert in Place, φ910mm or less	m	0.00	64.4%	5.7%	30.0%	20.0%	80.0%	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503(3)b	Cleaning Culvert in Place, more than φ910mm	m	0.00	57.0%	7.3%	35.7%	24.1%	75.9%	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503(4)a	Cleaning Reconditioning of RCBC, Single Barrel	m	0.00	45.6%	9.9%	44.6%	30.6%	69.4%	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503(4)b	Cleaning Reconditioning of RCBC, Double Barrel	m	0.00	37.3%	11.7%	51.0%	35.2%	64.8%	68.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503(4)c	Cleaning Reconditioning of RCBC, Triple Barrel	m	0.00	29.2%	13.5%	57.3%	39.6%	60.2%	102.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
504(5)	Grouted Riprap Class A (slope protection)	m3	4,270.00	15.9%	58.5%	25.6%	47.8%	52.2%	818.00	554,042.12	2,042,979.76	895,838.12	1,668,182.09	1,824,677.91	3,492,860.00	
505(1)	Stone Masonry Retaining Wall	m3	0.00	15.2%	64.2%	20.6%	48.7%	51.3%	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
506(1)	Hand-Laid Rock Apron (Loose Boulder Apron)	m3	121.00	8.5%	13.2%	78.3%	48.6%	51.4%	469.00	4,843.77	7,485.44	44,419.79	27,586.93	29,162.07	56,749.00	
507(2)a	Steel Sheet Piles (76x457x4mm), furnished & driven	m	0.00	2.3%	79.3%	18.4%	65.3%	34.7%	713.00	0.00	0.00	0.00	0.00	0.00	0.00	
507(2)b	Steel Sheet Piles (400x85x8mm), furnished & driven	m	819.00	1.5%	88.0%	10.5%	67.3%	32.7%	1,350.00	16,483.86	972,654.31	116,511.83	743,686.04	361,963.96	1,105,650.00	
509(1)	Gabions	m3	352.00	14.7%	52.0%	33.3%	37.4%	62.6%	1,840.00	95,307.25	336,704.69	215,668.06	242,542.61	405,137.39	647,680.00	
509(2)	Gabion Mattress (t=300mm)	m3	0.00	9.0%	70.7%	20.3%	32.9%	67.1%	3,020.00	0.00	0.00	0.00	0.00	0.00	0.00	
509(3)	Filter Cloth	m2	0.00	2.1%	96.2%	1.8%	58.6%	41.4%	91.70	0.00	0.00	0.00	0.00	0.00	0.00	
510(1)	Rubble Concrete Slope Protection	m3	108.00	7.1%	55.9%	37.0%	52.4%	47.6%	1,360.00	10,395.01	82,107.56	54,377.43	76,974.69	69,905.31	146,880.00	
Part H	Miscellaneous Structures															
600(1)a	Concrete Curb, Type A (200x450mm)	m	0.00	39.8%	53.1%	7.1%	22.9%	77.1%	349.00	0.00	0.00	0.00	0.00	0.00	0.00	
600(1)b	Concrete Curb, Type B (175x318mm)	m	0.00	41.5%	52.0%	6.5%	21.2%	78.8%	232.00	0.00	0.00	0.00	0.00	0.00	0.00	
600(3)a	Combination Concrete Curb & Gutter/Side Strip, Type A (675x364mm)	m	2,086.00	31.3%	58.8%	9.9%	31.9%	68.1%	414.00	270,540.42	507,693.99	85,369.59	275,548.16	588,055.84	863,604.00	
600(3)b	Combination Concrete Curb & Gutter/Side Strip, Type B (675x334mm)	m	0.00	30.8%	59.1%	10.1%	32.5%	67.5%	391.00	0.00	0.00	0.00	0.00	0.00	0.00	
600(3)c	Combination Concrete Curb & Gutter, Type C (475x334mm)	m	0.00	34.0%	57.0%	9.0%	29.1%	70.9%	358.00	0.00	0.00	0.00	0.00	0.00	0.00	
601(1)	PCC Pavement for Sidewalk (t=100mm)	m2	0.00	17.8%	62.2%	13.5%	45.3%	48.2%	475.00	0.00	0.00	0.00	0.00	0.00	0.00	
602(1)	Right-of-Way Monuments	each	519.00	46.0%	46.5%	7.5%	22.7%	77.3%	352.00	84,049.43	85,025.91	13,612.65	41,473.76	141,214.24	182,688.00	
602(2)	Maintenance Marker Posts for Drainage Structure	each	132.00	52.4%	35.4%	12.2%	22.3%	77.7%	823.00	56,962.13	38,459.26	13,214.61	24,239.31	84,396.69	108,636.00	
602(3)	Kilometer Post	each	9.00	44.3%	47.5%	8.2%	24.6%	75.4%	1,230.00	4,901.29	5,257.33	911.38	2,720.55	8,349.45	11,070.00	
603(3)a	Metal Guardrails (Metal Beam) Type A (Embedded in Soil)	m	2,267.00	16.4%	71.6%	12.0%	53.7%	46.3%	993.00	369,141.73	1,612,114.39	269,874.88	1,209,261.34	1,041,869.66	2,251,131.00	
603(3)b	Metal Guardrails (Metal Beam) Type B (Embedded in Concrete)	m	0.00	15.0%	70.7%	14.3%	54.2%	45.8%	801.00	0.00	0.00	0.00	0.00	0.00	0.00	
604(1)	Fencing (Barbed Wire)	m	0.00	24.8%	72.5%	2.7%	11.4%	88.6%	203.00	0.00	0.00	0.00	0.00	0.00	0.00	
604(2)	Fencing (Chain Link Fence Fabric)	m	0.00	14.6%	73.2%	12.2%	54.5%	45.5%	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
604(3)	Fencing (Chain Link Fence Fabric on Bridge Railings)	m	0.00	14.7%	73.9%	11.4%	55.0%	45.0%	977.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(1)a	Warning Signs (Triangular 900mm)	each	25.00	8.3%	90.3%	1.4%	57.6%	42.4%	6,960.00	14,436.96	157,120.78	2,442.27	100,165.20	73,834.80	174,000.00	
605(1)b	Warning Signs (Circular 900mm)	each	0.00	5.3%	93.6%	1.1%	60.2%	39.8%	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(2)a	Regulatory Signs (Triangular 1039mm)	each	1.00	6.7%	92.1%	1.2%	59.0%	41.0%	8,620.00	577.88	7,935.35	106.77	5,081.85	3,538.15	8,620.00	
605(2)b	Regulatory Signs (Octagonal 600mm)	each	4.00	9.4%	89.1%	1.5%	56.7%	43.3%	6,170.00	2,312.08	21,994.15	373.78	13,984.24	10,695.76	24,680.00	
605(2)c	Regulatory Signs (Circular 600mm)	each	11.00	9.7%	88.8%	1.5%	56.4%	43.6%	5,960.00	6,357.34	58,187.44	1,015.22	36,958.21	28,601.79	65,560.00	
605(2)d	Regulatory Signs (Rectangular 450mmx750mm)	each	7.00	8.5%	90.0%	1.4%	57.4%	42.6%	6,770.00	4,042.75	42,670.61	676.63	27,185.80	20,204.20	47,390.00	
605(3)a	Informatory Signs (Rectangular 0.75mxt.00m, single post)	each	0.00	4.6%	94.4%	1.0%	60.8%	39.2%	12,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(3)b	Informatory Signs (Type A, double post)	each	0.00	6.5%	92.3%	1.3%	59.1%	40.9%	16,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(3)c	Informatory Signs (Type B, double post)	each	4.00	2.2%	97.0%	0.8%	62.6%	37.4%	49,200.00	4,315.39	190,937.19	1,547.42	123,253.51	73,546.49	196,800.00	
605(3)d	Informatory Signs (Type C, double post)	each	3.00	1.7%	97.6%	0.7%	63.1%	36.9%	79,200.00	3,955.49	231,878.37	1,766.14	150,037.87	87,562.13	237,600.00	
605(3)e	Informatory Signs (Type D, double post)	each	0.00	1.5%	97.8%	0.7%	63.2%	36.8%	111,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(3)f	Informatory Signs (Type E, triple post)	each	0.00	2.6%	96.6%	0.8%	61.9%	38.1%	59,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(3)g	Informatory Signs (Type F, triple post)	each	0.00	1.7%	97.5%	0.8%	62.9%	37.1%	109,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(3)h	Informatory Signs (Type G, triple post)	each	0.00	1.4%	97.9%	0.7%	63.2%	36.8%	176,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(4)a	Special Signs (750x600mm)	each	0.00	7.8%	91.0%	1.3%	58.3%	41.7%	8,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(4)b	Special Signs (600x880mm)	each	0.00	6.8%	92.0%	1.2%	59.0%	41.0%	9,530.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(4)c	Special Signs (900x550mm)	each	0.00	7.3%	91.5%	1.2%	58.7%	41.3%	8,970.00	0.00	0.00	0.00	0.00	0.00	0.00	
605(4)d	Special Signs (850x750mm)	each	0.00	5.9%	93.0%	1.1%	59.8%	40.2%	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
607(2)a	Reflectorized Pavement Studs (Raised Profile Type, one face reflective)	each	0.00	4.5%	94.1%	1.5%	57.2%	42.8%	774.00	0.00	0.00	0.00	0.00	0.00	0.00	
607(2)b	Reflectorized Pavement Studs (Raised Profile Type, two faces reflective)	each	0.00	4.1%	94.4%	1.5%	57.2%	42.8%	835.00	0.00	0.00	0.00	0.00	0.00	0.00	
607(3)	Chatter Bars (one side reflective)	each	0.00	1.9%	96.7%	1.5%	58.6%	41.4%	1,830.00	0.00	0.00	0.00	0.00	0.00	0.00	
608(1)	Furnishing and Placing Top Soil for Plantation	m3	21,796.00	26.1%	18.0%	56.0%	38.1%	61.9%	304.00	1,727,014.01	1,190,237.33	3,708,732.66	2,526,880.61	4,099,103.39	6,625,984.00	
610(1)	Sodding	m2	113,031.00	42.7%	55.4%	1.9%	5.7%	94.3%	55.00	2,654,953.52	3,442,199.46	119,552.02	352,137.34	5,864,567.66	6,216,705.00	
611(1)a	Trees (Furnishing and Transplanting) Low Tree H≤1.5m	each	0.00	11.6%	82.0%	6.4%	10.3%	89.7%	268.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
611(1)b	Trees (Furnishing and Transplanting) Medium Tree 1.5m<H≤3.0m	each	0.00	11.3%	83.4%	5.3%	9.6%	90.4%	614.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(1)c	Trees (Furnishing and Transplanting) High Tree (young tree) 1.5m<H≤3.0m	each	902.00	17.1%	77.8%	5.2%	9.1%	90.9%	1,100.00	169,282.04	771,796.98	51,120.98	90,267.48	901,932.52	992,200.00		
611(2)a	Trees (Transplanting) Low Tree H≤1.5m	each	0.00	53.1%	8.4%	29.3%	21.4%	69.5%	58.60	0.00	0.00	0.00	0.00	0.00	0.00		
611(2)b	Trees (Transplanting) Medium Tree 1.5m<H≤3.0m	each	0.00	56.8%	7.6%	26.5%	19.3%	71.6%	122.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(2)c	Trees (Transplanting) High Tree (young tree) 1.5m<H≤3.0m	each	0.00	65.5%	5.7%	19.8%	14.4%	76.5%	286.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(3)a	Planter Box of CHB (1.00m x 1.00m) for Road Side Plantation	each	0.00	37.0%	57.7%	5.3%	24.8%	75.2%	1,570.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(3)b	Planter Box of CHB (3.00m x 1.00m) for Road Side Plantation	each	0.00	34.2%	60.4%	5.4%	25.9%	74.1%	3,730.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(4)a	Planter Square Type A (1.13mx1.13m) for Road Side Plantation	each	0.00	47.5%	36.4%	16.1%	30.4%	69.6%	933.00	0.00	0.00	0.00	0.00	0.00	0.00		
611(4)b	Planter Square Type B (0.68mx1.70m) for Road Side Plantation	each	0.00	51.3%	32.8%	15.9%	27.5%	72.5%	389.00	0.00	0.00	0.00	0.00	0.00	0.00		
612(1)a	ReflectORIZED Thermoplastic Pavement Markings (White)	m2	3,331.00	4.8%	87.2%	8.0%	60.8%	39.2%	452.00	71,998.98	1,313,114.01	120,499.01	915,184.01	590,427.99	1,505,612.00		
612(1)b	ReflectORIZED Thermoplastic Pavement Markings (Yellow)	m2	142.00	4.7%	87.5%	7.8%	60.9%	39.1%	464.00	3,070.28	57,666.29	5,151.43	40,114.42	25,773.58	65,888.00		
SPL 612(2)	Removal of Existing Thermoplastic Pavement Markings	m2	0.00	95.7%	1.9%	2.4%	2.4%	97.6%	71.90	0.00	0.00	0.00	0.00	0.00	0.00		
615(1)a	Delineator (ground standing type)	each	0.00	2.3%	97.7%	0.0%	58.6%	41.4%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00		
615(1)b	Delineator (attached on guardrail)	each	0.00	2.2%	97.8%	0.0%	58.7%	41.3%	577.00	0.00	0.00	0.00	0.00	0.00	0.00		
615(2)a	Curve Mirror 1-φ600	each	0.00	6.3%	92.3%	1.4%	55.5%	44.5%	13,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
615(2)b	Curve Mirror 2-φ600	each	0.00	2.7%	96.3%	1.0%	58.3%	41.7%	24,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
615(3)	Dustproof Concrete Paving for Median	m2	0.00	17.5%	60.1%	22.4%	47.2%	52.8%	132.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(1)a	Traffic Signal Pole Type A (Mast Arm Post H=6.7m)	each	0.00	10.9%	65.1%	24.0%	53.8%	46.2%	40,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(1)b	Traffic Signal Pole Type A (Mast Arm Post H=6.0m)	each	4.00	11.6%	65.0%	23.4%	53.0%	47.0%	42,300.00	19,697.20	109,928.48	39,574.32	89,696.69	79,503.31	169,200.00		
SPL 620(1)c	Traffic Signal Pole Type B (φ114.3mm x 4.2m)	each	6.00	14.7%	56.9%	28.3%	48.8%	51.2%	21,300.00	18,797.76	72,778.92	36,223.32	62,344.78	65,455.22	127,800.00		
SPL 620(1)d	Traffic Signal Pole Type C (φ114.3mm x 3.4m)	each	9.00	15.4%	56.7%	27.8%	47.9%	52.1%	21,900.00	30,395.92	111,832.36	54,871.72	94,482.89	102,617.11	197,100.00		
SPL 620(1)e	Traffic Signal Pole Type D (φ114.3mm x 3.0m)	each	2.00	14.8%	56.4%	28.8%	48.8%	51.2%	19,200.00	5,667.77	21,675.93	11,056.31	18,758.00	19,642.00	38,400.00		
SPL 620(2)a	Traffic Signal Lamps Type A (6 vehicle lamps)	each	3.00	1.1%	97.0%	2.0%	54.8%	45.2%	194,000.00	6,122.02	564,298.41	11,579.57	318,785.56	283,214.44	582,000.00		
SPL 620(2)b	Traffic Signal Lamps Type B (3 vehicle lamps)	each	20.00	1.2%	96.4%	2.4%	54.7%	45.3%	105,000.00	25,268.54	2,024,099.36	50,632.10	1,148,818.33	951,181.67	2,100,000.00		
SPL 620(2)c	Traffic Signal Lamps Type C (2 pedestrian lamps)	each	10.00	1.6%	94.7%	3.7%	54.5%	45.5%	50,600.00	7,870.44	479,190.82	18,938.74	276,006.10	229,993.90	506,000.00		
SPL 620(4)a	Street Lighting Poles (single lamp)	each	1.00	10.6%	69.0%	20.4%	53.0%	47.0%	48,200.00	5,107.80	33,248.33	9,843.87	25,564.50	22,635.50	48,200.00		
SPL 620(4)b	Street Lighting Poles (double lamp)	each	38.00	9.1%	72.0%	18.9%	54.0%	46.0%	60,100.00	208,512.13	1,643,635.37	431,652.50	1,233,312.26	1,450,487.74	2,283,800.00		
SPL 620(4)c	Bridge Lighting Poles (single lamp)	each	0.00	8.9%	72.2%	18.9%	55.8%	44.2%	33,800.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(4)d	Street Lighting Service Pole with Panel	each	2.00	8.5%	80.8%	10.7%	50.3%	49.7%	49,200.00	8,338.30	79,523.09	10,538.62	49,533.93	48,866.07	98,400.00		
SPL 620(4)e	Fluorescent Lighting for Underpass Culvert	each	0.00	5.6%	92.6%	1.8%	54.2%	45.8%	923.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(5)a	Relocation of Street Lighting Poles (Single Lamp)	each	0.00	21.2%	49.7%	29.1%	43.9%	56.1%	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(5)b	Relocation of Street Lighting Poles (Dual Lamp)	each	0.00	22.6%	48.7%	28.6%	43.0%	57.0%	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
SPL 620(6)	Toll Gate Facilities	L.S.	0.00	6.3%	72.6%	21.1%	77.4%	22.6%	86,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
Part X	Mobilization and Demobilization																
SPL 800	Mobilization and Demobilization	L.S.	1.00	9.6%	38.1%	52.2%	47.9%	52.1%	1,170,000.00	112,724.53	446,322.55	610,952.91	560,431.81	609,568.19	1,170,000.00		
Part X	Provisional Sum																
SPL 900(1)	Provisional Sum for Traffic Management during Construction	L.S.	1.00	56.3%	6.2%	37.6%	24.2%	75.8%	976,000.00	549,202.95	60,280.27	366,516.78	236,351.70	739,648.30	976,000.00		
SPL 900(2)	Provisional Sum for Relocation of Existing Utilities	L.S.	1.00	16.9%	44.3%	38.7%	48.2%	51.8%	1,150,000.00	194,813.81	509,800.07	445,386.12	553,985.42	596,014.58	1,150,000.00		

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
SPL 900(3)	Provisional Sum for Geotechnical Investigation	L.S.	1.00	22.3%	10.5%	67.2%	46.7%	53.3%	752,000.00	167,888.20	78,835.57	505,276.24	350,933.33	401,066.67	752,000.00	
SPL 900(4)	Provisional Sum for Maintenance and Repair of Existing Access Road	L.S.	1.00	20.3%	16.6%	63.1%	41.6%	58.4%	413,000.00	83,970.94	68,607.76	260,421.30	171,959.18	241,040.82	413,000.00	
SPL 900(5)	Provisional Sum for Environmental Compliance Requirements	L.S.	1.00	50.2%	49.0%	0.8%	0.8%	99.2%	922,000.00	462,690.99	452,077.64	7,231.37	7,231.37	914,768.63	922,000.00	
SPL 900(6)	Provisional Sum for Health and Safety Requirements	L.S.	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	647,000.00	64,700.00	355,850.00	226,450.00	258,800.00	388,200.00	647,000.00	
SPL 900(7)	Provisional Sum for Overseas Development Assistance (ODA)	L.S.	1.00	2.3%	95.0%	2.6%	62.8%	37.2%	191,000.00	4,429.20	181,515.21	5,055.59	119,980.75	71,019.25	191,000.00	
SPL 900(8)	Provisional Sum for Contingency	L.S.	1.00	15.0%	45.0%	40.0%	50.0%	50.0%	1,900,000.00	285,000.00	855,000.00	760,000.00	950,000.00	950,000.00	1,900,000.00	
	Total									39,628,689.82	129,567,550.13	209,021,292.75	184,787,826.64	193,429,706.06	378,217,532.70	
	Component									10.5%	34.3%	55.3%	48.9%	51.1%	100.0%	