

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
PLARIDEL BYPASS PACKAGE IV**

December 2002

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

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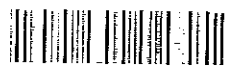
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1. General Conditions for Cost Estimate

1) Procedure of Cost Estimation

Based on "Department Order No. 57, 2002", Department of Public Works and Highways

2) Currency Exchange Rate 1 US\$ = 52.28 PP = 120.12 yen as of 23/August/2002

3) Minimum Wage for Labor

a) Wage Order No. RBIII-09, Effective from Jan. 16, 2002
National Wages and Productivity Commission, Department of Labor and Employment

4) Social Charge

a) National Health Insurance Program (NHIP)
National Health Insurance Act (Art. X, RA 7875), effective from January 1, 2002
b) Social Security System (SSS)
SSC Resolution No. 900-s2001, effective from January 1, 2002

5) Material Cost

a) "Metro Manila Construction Materials Price and Indices",
DTI, Construction Industry Authority of the Philippines (March, 2002)
b) According to inquiries, quotations, other projects, hearing survey, etc.
c) "Construction Price Book", Kensetu Bukka Chousa-kai, Japan

6) Equipment Cost

a) "Equipment Guidebook", Association of Carriers and Equipment Lessors (ACEL), INC. (Nov. 1998)
b) "Equipment Depreciation Cost Estimate Table", Japan Construction Equipment Association

7) Productivity

a) "Construction Cost Estimate Standard", Ministry of Land Development and Transportation, Japan
b) "Highway and Bridge Estimating Manual", DPWH, Bureau of Research and Standards (Dec. 1992)

8) General Basis Used for Cost Estimate

Bypass			Plaridel
Package No.			4
Station	Start	m	49+625.000
	End	m	55+672.457
Construction Length		m	6,047.457
Province		-	Bulacan, Central Luzon
Distance from Manila		km	50.0
Construction Period		month	24.0
Minimum Wage for Labor		PP/day	228.50
Equipment Rental Extra out of Manila		%	2.0%
Mobilization Distance		km	50.0
Hauling Distance from near by material source	Soil	km	5.7
	Sand	km	5.0
	Aggregate	km	5.0
	Gravel	km	5.0
Hauling Distance for disposal	Soil	km	5.0
	Debris	km	5.0
Average Distance for Batching Plant, Fabrication Yard (= 1/4 x Construction Length)		km	1.5
AASHTO Girder	Max. L	m	36.0
	Total nos.	each	5

2. Estimated Project Cost

Project : Upgrading Inter-Urban Highway System Along the Pan-Philippine Highway - Plaridel Bypass Initial Stage Package 4
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 Total (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%

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 SPL 800	
where,		N: Total Estimated Direct Cost (PP)	
		a, b: Coefficients	

Adopted Markup Percentage: 9.4% 8.6% 0.0% 18.0%

Value Added Tax = 10.0%

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 A Facilities for the Engineer															
A(1)a	Provision of Combined Field Office/Laboratory Bldg. and Living Quarter	1.00	L.S.	2,360,000.00	9.4%	8.6%	0.0%	18.0%	424,800.00	278,480.00	703,280.00	3,063,280.00	3,063,280.00	3,063,280.00	1.216%
A(1)b	Maintenance of Field Office/Laboratory Bldg. and Living Quarter	24.00	month	2,052,000.00	9.4%	8.6%	0.0%	18.0%	369,360.00	242,136.00	611,496.00	2,663,496.00	110,979.00	2,663,496.00	1.057%
A(1)c	Provision of Furniture and Fixtures for the Field Office/Laboratory and Living Quarter	1.00	L.S.	549,000.00	9.4%	8.6%	0.0%	18.0%	98,820.00	64,782.00	163,602.00	712,602.00	712,602.00	712,602.00	0.283%
A(1)d	Provision of Equipment and Appliances for the Field Office/Laboratory Bldg. and Living Quarter	1.00	L.S.	313,000.00	9.4%	8.6%	0.0%	18.0%	56,340.00	36,934.00	93,274.00	406,274.00	406,274.00	406,274.00	0.161%
A(1)e	Provision of Office Supplies and Consumable	24.00	month	403,200.00	9.4%	8.6%	0.0%	18.0%	72,576.00	47,577.60	120,153.60	523,353.60	21,806.00	523,344.00	0.208%
A(1)f	Provide/Operate/Maintain Communication Equipment	24.00	month	142,800.00	9.4%	8.6%	0.0%	18.0%	25,704.00	16,850.40	42,554.40	185,354.40	7,723.00	185,352.00	0.074%
A(2)a	Provision of vehicles (sedan) for the Engineer (Rental including operation & maintenance)	24.00	veh-m	1,720,800.00	9.4%	8.6%	0.0%	18.0%	309,744.00	203,054.40	512,798.40	2,233,598.40	93,067.00	2,233,608.00	0.886%
A(2)b	Provision of vehicles (wagon) for the Engineer (Rental including operation & maintenance)	48.00	veh-m	4,171,200.00	9.4%	8.6%	0.0%	18.0%	750,816.00	492,201.60	1,243,017.60	5,414,217.60	112,796.00	5,414,208.00	2.148%
A(2)c	Provision of vehicles (pick-up) for the Engineer (Rental including operation & maintenance)	72.00	veh-m	3,621,600.00	9.4%	8.6%	0.0%	18.0%	651,888.00	427,348.80	1,079,236.80	4,700,836.80	65,289.00	4,700,808.00	1.865%
A(3)	Provision of Testing Equipment, Apparatus and Publications	1.00	L.S.	1,040,000.00	9.4%	8.6%	0.0%	18.0%	187,200.00	122,720.00	309,920.00	1,349,920.00	1,349,920.00	1,349,920.00	0.536%
A(4)	Progress Photographs	1,611.00	each	188,487.00	9.4%	8.6%	0.0%	18.0%	33,927.66	22,241.47	56,169.13	244,656.13	152.00	244,872.00	0.097%
	Subtotal			16,562,087.00					2,981,175.66	1,954,326.27	4,935,501.93	21,497,588.93		21,497,764.00	8.530%
Part C Earthwork															
100(1)	Clearing and Grubbing	31.00	ha	1,205,900.00	9.4%	8.6%	0.0%	18.0%	217,062.00	142,296.20	359,358.20	1,565,258.20	50,492.00	1,565,252.00	0.621%
100(3)	Individual Removal of Trees, small (150mm ≤ φ < 900mm)	117.00	each	10,483.20	9.4%	8.6%	0.0%	18.0%	1,886.97	1,237.02	3,123.99	13,607.19	116.00	13,572.00	0.005%
100(4)	Individual Removal of Trees, large (φ ≥ 900mm)	28.00	each	3,444.00	9.4%	8.6%	0.0%	18.0%	619.92	406.39	1,026.31	4,470.31	160.00	4,480.00	0.002%
101(1)	Removal of Structures and Obstructions	1.00	L.S.	50,800.00	9.4%	8.6%	0.0%	18.0%	9,144.00	5,994.40	15,138.40	65,938.40	65,938.00	65,938.00	0.026%
101(2)a	Removal of Existing Pedestrian Bridge (San Jose, at Bridge No. 2)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(3)a	Removal of Existing PCC Pavement	1,942.00	m ²	176,722.00	9.4%	8.6%	0.0%	18.0%	31,809.96	20,853.20	52,663.16	229,385.16	118.00	229,156.00	0.091%
101(3)b	Removal of Existing Gravel Pavement	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
101(14)	Removal of Existing Concrete Retement	0.00	L.S.	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
102(1)	Unsuitable Excavation	113,108.00	m3	14,138,500.00	9.4%	8.6%	0.0%	18.0%	2,544,930.00	1,668,343.00	4,213,273.00	18,351,773.00	162.00	18,323,496.00	7.282%
102(2)	Surplus Common Excavation	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(1)	Structure Excavation	1,532.00	m3	223,672.00	9.4%	8.6%	0.0%	18.0%	40,260.96	26,393.30	66,654.26	290,326.26	190.00	291,080.00	0.115%
103(2)a	Bridge Excavation above OWL (Common Soil)	323.00	m3	47,158.00	9.4%	8.6%	0.0%	18.0%	8,488.44	5,564.64	14,053.08	61,211.08	190.00	61,370.00	0.024%
103(2)b	Bridge Excavation above OWL (Rocky Soil)	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(2)c	Bridge Excavation below OWL (Common Soil)	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(2)d	Bridge Excavation below OWL (Rocky Soil)	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(3)a	Gravel Foundation Fill	132.00	m3	51,612.00	9.4%	8.6%	0.0%	18.0%	9,290.16	6,090.22	15,380.38	66,992.38	508.00	67,056.00	0.027%
103(3)b	Selected Sand Bedding	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
103(6)	Pipe Culverts and Drain Excavation	3,905.00	m3	554,510.00	9.4%	8.6%	0.0%	18.0%	99,811.80	65,432.18	165,243.98	719,753.98	184.00	718,520.00	0.286%
103(7)	Granular Backfill for Pipe Culverts	1,813.00	m3	502,201.00	9.4%	8.6%	0.0%	18.0%	90,396.18	59,259.72	149,655.90	651,856.90	360.00	652,680.00	0.259%
104(1)	Embankment from Excavated Soil	76,748.00	m3	11,435,452.00	9.4%	8.6%	0.0%	18.0%	2,058,381.36	1,349,383.34	3,407,764.70	14,843,216.70	193.00	14,812,364.00	5.890%
104(3)	Embankment from Borrow Soil	186,674.00	m3	31,921,254.00	9.4%	8.6%	0.0%	18.0%	5,745,825.72	3,766,707.97	9,512,533.69	41,433,787.69	222.00	41,441,628.00	16.441%
104(4)	Embankment from Borrow (Selected Granular Material) for Bridge	600.00	m3	153,000.00	9.4%	8.6%	0.0%	18.0%	27,540.00	18,054.00	45,594.00	198,594.00	331.00	198,600.00	0.079%
105(1)	Subgrade Preparation (Common Soil)	32,593.00	m2	443,264.80	9.4%	8.6%	0.0%	18.0%	79,787.66	52,305.25	132,092.91	575,357.71	17.70	576,896.10	0.228%
105(2)	Subgrade Preparation (Existing Gravel Surface)	0.00	m2	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			60,917,973.00					10,965,235.13	7,188,320.83	18,153,555.96	79,071,528.96		79,022,088.10	31.376%
Part D	Subbase and Base Course														
200(1)	Aggregate Subbase Course	25,936.00	m3	12,475,216.00	9.4%	8.6%	0.0%	18.0%	2,245,538.88	1,472,075.49	3,717,614.37	16,192,830.37	624.00	16,184,064.00	6.425%
200(2)	Aggregate Subbase Course using materials born by removal of existing gravel pavement	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
201(1)	Aggregate Base Course	8,576.00	m3	4,339,456.00	9.4%	8.6%	0.0%	18.0%	781,102.08	512,055.81	1,293,157.89	5,632,613.89	657.00	5,634,432.00	2.235%
204(1)	Cement Stabilized Sand Base Course	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			16,814,672.00					3,026,640.96	1,984,131.30	5,010,772.28	21,825,444.26		21,818,496.00	8.661%
Part E	Surface Courses														
300(1)	Gravel Surface Course	9,964.00	m3	4,782,720.00	9.4%	8.6%	0.0%	18.0%	860,889.60	564,360.96	1,425,250.56	6,207,970.56	623.00	6,207,572.00	2.463%
301(1)	Prime Coat	0.00	t	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
302(1)	Tack Coat	0.00	t	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
311(1)b	PCC Pavement (Plain), t=250mm	51,222.00	m2	28,940,430.00	9.4%	8.6%	0.0%	18.0%	5,209,277.40	3,414,970.74	8,624,248.14	37,564,678.14	733.00	37,545,726.00	14.906%
311(1)c	PCC Pavement (Plain), t=230mm	5,975.00	m2	3,178,700.00	9.4%	8.6%	0.0%	18.0%	572,166.00	375,086.60	947,252.60	4,125,952.60	691.00	4,128,725.00	1.637%
311(1)d	PCC Pavement (Plain), t=180mm	0.00	m2	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 311(2)	PCC Pavement (Reinforced), t=300mm (Approach Slab)	120.00	m2	247,200.00	9.4%	8.6%	0.0%	18.0%	44,496.00	29,169.60	73,665.60	320,865.60	2,674.00	320,880.00	0.127%
	Subtotal			37,149,050.00					6,686,829.00	4,383,587.90	11,070,416.90	48,219,466.90		48,202,903.00	19.134%

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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(4)a	Precast RC Concrete Pile (400mm x 400mm), furnished	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	1,582.00	m	3,164,000.00	9.4%	8.6%	0.0%	18.0%	569,520.00	373,352.00	942,872.00	4,106,872.00	2,596.00	4,106,872.00	1.630%
400(10)a	Steel H Piles (450mmx260kg/m), driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(13)a	Precast Concrete Piles (400mm x 400mm), driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(13)b	Precast Concrete Piles (450mm x 450mm), driven	1,496.00	m	525,096.00	9.4%	8.6%	0.0%	18.0%	94,517.28	61,961.33	156,478.61	681,574.61	456.00	682,176.00	0.270%
400(15)a	Test Piles (400mm x 400mm), furnished & driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(15)b	Test Piles (450mm x 450mm), furnished & driven	51.00	m	116,790.00	9.4%	8.6%	0.0%	18.0%	21,022.20	13,781.22	34,803.42	151,593.42	2,972.00	151,572.00	0.060%
400(15)c	Test Piles (Steel H Piles 450mmx260kg/m), furnished & driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(16)a	Cast-in-place Concrete Bored Piles ϕ 1000mm	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(16)b	Cast-in-place Concrete Bored Piles ϕ 1200mm	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(16)c	Cast-in-place Concrete Bored Piles ϕ 1500mm	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(16)d	Cast-in-place Concrete Bored Piles ϕ 800mm	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(19)a	Pile shoes for 400mm x 400mm Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(19)b	Pile shoes for 450mm x 450mm Piles	70.00	each	50,260.00	9.4%	8.6%	0.0%	18.0%	9,046.80	5,930.68	14,977.48	65,237.48	932.00	65,240.00	0.026%
400(20)a	Splices for 400mm x 400mm Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(20)b	Splices for 450mm x 450mm Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
400(21)	Static Pile Load Test for ϕ 1500mm Bored Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 400(23)a	High Strain Dynamic Pile Test for ϕ 1000mm Bored Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 400(23)b	High Strain Dynamic Pile Test for ϕ 1200mm Bored Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 400(23)c	High Strain Dynamic Pile Test for ϕ 800mm Bored Piles	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 400(24)	Pile Integrity Test for Bored Piles of various diameter	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
401(1)a	Concrete Railing Type A (Concrete Posts and Precast Beams)	72.00	m	89,280.00	9.4%	8.6%	0.0%	18.0%	16,070.40	10,535.04	26,605.44	115,885.44	1,610.00	115,920.00	0.046%
401(1)b	Concrete Railing Type B (Concrete Wall Type)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
401(2)a	Steel Railing Type A for Angat and Talavera Bridge, and Approach of Pampanga Bridge	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
401(2)b	Steel Railing Type B for Pampanga Main Bridge	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 401(3)a	Bridge Name Plate, 1000 x 600 mm for Angat Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 401(3)b	Bridge Name Plate, 1000 x 600 mm for Pampanga Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 401(3)c	Bridge Name Plate, 1000 x 600 mm for Talavera Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 401(3)d	Bridge Name Plate, 1000 x 600 mm for Interchange Ramp	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
403(3)	Structural Steel for Pampanga River Bridge, furnished and fabricated	0.00	kg	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
403(5)	Structural Steel for Pampanga River Bridge, erected	0.00	kg	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
403(8)a	Bearing Shoe for Steel Plate Girder Type 1 (Max. R-250t) in Pampanga Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	
403(8)b	Bearing Shoe for Steel Plate Girder Type 2 (Max. R=550t) in Pampanga Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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=550t) in Pampanga Bridge	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
404(1)	Reinforcement Steel Grade 40	128,709.00	kg	3,011,790.60	9.4%	8.6%	0.0%	18.0%	542,122.26	355,391.29	897,513.59	3,909,304.19	30.40	3,912,753.60	1.551%
404(2)	Reinforcement Steel Grade 60	25,623.00	kg	627,763.50	9.4%	8.6%	0.0%	18.0%	112,997.43	74,076.09	187,073.52	814,837.02	31.80	814,811.40	0.323%
405(1)a	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for heavily reinforced structures	1,042.00	m3	3,282,300.00	9.4%	8.6%	0.0%	18.0%	590,814.00	387,311.40	978,125.40	4,260,425.40	4,089.00	4,260,738.00	1.691%
405(1)b	Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for small & medium bridges substructures	378.00	m3	839,160.00	9.4%	8.6%	0.0%	18.0%	151,048.80	99,020.88	250,069.68	1,089,229.68	2,882.00	1,089,396.00	0.432%
405(1)c	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges RCDG	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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 PCDG	118.00	m3	470,820.00	9.4%	8.6%	0.0%	18.0%	84,747.60	55,556.76	140,304.36	611,124.36	5,179.00	611,122.00	0.243%
405(1)e	Structural Concrete Class AA1 (fc'=28MPa, max. aggregate 25) for long bridge substructures	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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	9.4%	8.6%	0.0%	18.0%	0.00	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	685.00	m3	1,623,450.00	9.4%	8.6%	0.0%	18.0%	292,221.00	191,567.10	483,788.10	2,107,238.10	3,076.00	2,107,060.00	0.836%
405(3)	Structural Concrete Class C (fc'=21MPa, max. aggregate 12mm) for thin reinforced members	19.00	m3	48,640.00	9.4%	8.6%	0.0%	18.0%	8,755.20	5,739.52	14,494.72	63,134.72	3,323.00	63,137.00	0.025%
405(4)b	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed box girders in Angat Bridge	0.00	m3	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
405(6)	Lean Concrete (17MPa, max. agg. 38mm), poured	125.00	m3	238,750.00	9.4%	8.6%	0.0%	18.0%	42,975.00	28,172.50	71,147.50	309,897.50	2,479.00	309,875.00	0.123%
406(1)a	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=20m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)b	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=22m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)c	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=24m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(1)e	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=30m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	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	9.4%	8.6%	0.0%	18.0%	0.00	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	9.4%	8.6%	0.0%	18.0%	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	
406(1)h	Precast Prestressed Structural Concrete Member (AASHTO Girder Type V L=29.55m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	5.00	each	2,770,000.00	9.4%	8.6%	0.0%	18.0%	498,600.00	326,860.00	825,460.00	3,595,460.00	719,092.00	3,595,460.00	1.427%
406(1)l	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.4m), fabricated & erected	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	m ²	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)c	Prestressing Bar ϕ 32mm for PC Box Girders of Angat Bridge, Transversal in Diaphragms	0.00	kg	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
406(3)d	Prestressing Bar ϕ 32mm for PC Box Girders of Angat Bridge, Vertical in Webs	0.00	kg	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)c	Elastomeric Bearing Pad, Duro 60 (600x350x50mm)	10.00	each	215,000.00	9.4%	8.6%	0.0%	18.0%	38,700.00	25,370.00	64,070.00	279,070.00	27,907.00	279,070.00	0.111%
407(1)d	Elastomeric Bearing Pad, Duro 60 (600x700x89mm)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)e	Elastomeric Bearing Pad, Duro 60 (600x400x60mm)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(1)h	Elastomeric Bearing Pad, Duro 60 (500x400x60mm)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)a	Expansion Joint, Multiflex M80 (Elastomeric)	20.00	m	1,320,000.00	9.4%	8.6%	0.0%	18.0%	237,600.00	155,760.00	393,360.00	1,713,360.00	85,668.00	1,713,360.00	0.680%
407(2)b	Expansion Joint, Multiflex M100 (Elastomeric)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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)	
407(2)f	Expansion Joint, Multiflex M330 (Elastomeric)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(2)g	Expansion Joint, 30mm for bridge	4.00	m	596.00	9.4%	8.6%	0.0%	18.0%	107.28	70.33	177.61	773.61	193.00	772.00	0.000%
SPL 407(3)a	Restraining Bar ϕ 32 x 1495mm	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 407(3)b	Restraining Bar ϕ 32 x 1900mm	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 407(3)c	Restraining Cable ϕ 65 x 4121mm (PC 7-115.2)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 407(3)d	Restraining Cable ϕ 65 x 4224mm (PC 7-115.2)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
407(4)	G.I. Drain Pipe ϕ 150mm for Bridge Drainage	3.00	m	2,538.00	9.4%	8.6%	0.0%	18.0%	456.84	299.48	756.32	3,294.32	1,098.00	3,294.00	0.001%
SPL 407(5)a	Pier Protection Concrete Blocks for Angat Bridge	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 407(5)b	Pier Protection Concrete Blocks for Pampanga Bridge	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 407(5)c	Pier Protection Concrete Blocks for Talavera Bridge	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(1)	Temporary Access Road Crossing Streams/Rivers	0.00	L.S.	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(2)	Realignment of River/Stream	0.00	L.S.	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(3)	False Works Required for Cantilever Construction for PC Box Girder (Angat River)	0.00	L.S.	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(4)a	Temporary Craneway for Angat Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(4)b	Temporary Craneway for Pampanga Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(4)c	Temporary Craneway for Talavera Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(5)a	Temporary Access Road (Causeway) for Angat Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(5)b	Temporary Access Road (Causeway) for Pampanga Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(5)c	Temporary Access Road (Causeway) for Talavera Bridge Construction	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(6)a	Temporary Cofferdam for Pier Construction (Angat Bridge Type 1)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(6)b	Temporary Cofferdam for Pier Construction (Angat Bridge Type 2)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(6)c	Temporary Cofferdam for Pier Construction (Pampanga Bridge)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 420(6)d	Temporary Cofferdam for Pier Construction (Talavera Bridge)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			18,396,234.10					3,311,322.13	2,170,755.62	5,482,077.75	23,878,311.85		23,882,629.00	9.475%
Part G	Drainage and Slope Protection Structures														
500(1)a3	RCPC Standard Strength (25MPa), ϕ 460mm (18")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a4	RCPC Standard Strength (25MPa), ϕ 610mm (24")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a5	RCPC Standard Strength (25MPa), ϕ 760mm (30")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a6	RCPC Standard Strength (25MPa), ϕ 910mm (36")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a7	RCPC Standard Strength (25MPa), ϕ 1070mm (42")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a8	RCPC Standard Strength (25MPa), ϕ 1220mm (48")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)a9	RCPC Standard Strength (25MPa), ϕ 1520mm (60")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b3	RCPC Standard Strength (32MPa), ϕ 460mm (18")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)b4	RCPC Standard Strength (32MPa), ϕ 610mm (24")	66.00	m	79,200.00	9.4%	8.6%	0.0%	18.0%	14,256.00	9,345.60	23,601.60	102,801.60	1,558.00	102,828.00	0.041%

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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c3	RCPC Extra Strength (32MPa), ϕ 460mm (18")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c4	RCPC Extra Strength (32MPa), ϕ 610mm (24")	22.00	m	29,920.00	9.4%	8.6%	0.0%	18.0%	5,385.60	3,530.56	8,916.16	38,836.16	1,765.00	38,830.00	0.015%
500(1)c5	RCPC Extra Strength (32MPa), ϕ 760mm (30")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
500(1)c6	RCPC Extra Strength (32MPa), ϕ 910mm (36")	363.00	m	1,147,080.00	9.4%	8.6%	0.0%	18.0%	206,474.40	135,355.44	341,829.84	1,488,909.84	4,102.00	1,489,026.00	0.591%
500(1)c7	RCPC Extra Strength (32MPa), ϕ 1070mm (42")	388.00	m	1,765,400.00	9.4%	8.6%	0.0%	18.0%	317,772.00	208,317.20	526,089.20	2,291,489.20	5,906.00	2,291,528.00	0.909%
500(1)c8	RCPC Extra Strength (32MPa), ϕ 1220mm (48")	48.00	m	239,040.00	9.4%	8.6%	0.0%	18.0%	43,027.20	28,206.72	71,233.92	310,273.92	6,464.00	310,272.00	0.123%
500(1)c9	RCPC Extra Strength (32MPa), ϕ 1520mm (60")	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(2)a2	Drop Inlet Manhole for RCPC 1- ϕ 610 x 1- ϕ 460	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	20.00	each	153,800.00	9.4%	8.6%	0.0%	18.0%	27,684.00	18,148.40	45,832.40	199,632.40	9,982.00	199,640.00	0.079%
502(2)b2	Special Junction Box Manhole for RCPC 1-φ 610 x 1-φ 460	20.00	each	176,600.00	9.4%	8.6%	0.0%	18.0%	31,788.00	20,838.80	52,626.80	229,226.80	11,461.00	229,220.00	0.091%
502(2)b3	Special Junction Box Manhole for RCPC 1-φ 760 x 1-φ 460	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	12.00	each	156,000.00	9.4%	8.6%	0.0%	18.0%	28,080.00	18,408.00	46,488.00	202,488.00	16,874.00	202,488.00	0.080%
502(2)b15	Special Junction Box Manhole for RCPC 1-φ 1070 x 1-φ 610	12.00	each	172,800.00	9.4%	8.6%	0.0%	18.0%	31,104.00	20,390.40	51,494.40	224,294.40	18,691.00	224,292.00	0.089%
502(2)b16	Special Junction Box Manhole for RCPC 1-φ 1220 x 1-φ 610	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	5.00	each	98,500.00	9.4%	8.6%	0.0%	18.0%	17,730.00	11,623.00	29,353.00	127,853.00	25,571.00	127,855.00	0.051%
502(2)b35	Special Junction Box Manhole for RCPC 2-φ 1070 x 1-φ 610	4.00	each	90,400.00	9.4%	8.6%	0.0%	18.0%	16,272.00	10,667.20	26,939.20	117,339.20	29,335.00	117,340.00	0.047%
502(2)b36	Special Junction Box Manhole for RCPC 2-φ 1220 x 1-φ 610	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(3)a4	Catch Basin for RCPC 1-φ910mm	1.00	each	19,900.00	9.4%	8.6%	0.0%	18.0%	3,582.00	2,348.20	5,930.20	25,830.20	25,830.00	25,830.00	0.010%
502(3)a5	Catch Basin for RCPC 1-φ1070mm	2.00	each	46,400.00	9.4%	8.6%	0.0%	18.0%	8,352.00	5,475.20	13,827.20	60,227.20	30,114.00	60,228.00	0.024%
502(3)a6	Catch Basin for RCPC 1-φ1220mm	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	6,762.00	m	9,196,320.00	9.4%	8.6%	0.0%	18.0%	1,655,337.60	1,085,165.76	2,740,503.36	11,936,823.36	1,765.00	11,934,930.00	4.737%
502(4)a2	U-shaped Concrete Ditch W=0.75m x H=0.50m	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
502(6)b	V-shaped Lined Ditch H=500mm, 1:1.00	5,270.00	m	1,865,580.00	9.4%	8.6%	0.0%	18.0%	335,804.40	220,138.44	555,942.84	2,421,522.84	459.00	2,418,930.00	0.961%
502(7)a	Trapezoidal Lined Ditch B=450mm, H=500mm, 1:1.00	994.00	m	259,434.00	9.4%	8.6%	0.0%	18.0%	46,698.12	30,613.21	77,311.33	336,745.33	339.00	336,966.00	0.134%
502(7)b	Trapezoidal Lined Ditch B=1000mm, H=500mm, 1:1.00	3,764.00	m	1,385,152.00	9.4%	8.6%	0.0%	18.0%	249,327.36	163,447.94	412,775.30	1,797,927.30	478.00	1,799,192.00	0.713%
503(3)a	Cleaning Culvert in Place, ϕ 910mm or less	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
503(3)b	Cleaning Culvert in Place, more than ϕ 910mm	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
504(5)	Grouted Riprap Class A (slope protection)	770.00	m ³	615,230.00	9.4%	8.6%	0.0%	18.0%	110,741.40	72,597.14	183,338.54	798,568.54	1,037.00	798,490.00	0.317%
505(1)	Stone Masonry Retaining Wall	0.00	m ³	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
506(1)	Hand-Laid Rock Apron (Loose Boulder Apron)	127.00	m ³	56,896.00	9.4%	8.6%	0.0%	18.0%	10,241.28	6,713.73	16,955.01	73,851.01	582.00	73,914.00	0.029%
507(2)a	Steel Sheet Piles (76x457x4mm), furnished & driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
507(2)b	Steel Sheet Piles (400x85x8mm), furnished & driven	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
509(1)	Gabions	0.00	m ³	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
509(2)	Gabion Mattress t=300mm	0.00	m ³	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
509(3)	Filter Cloth	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
510(1)	Rubble Concrete Slope Protection	153.00	m ³	203,490.00	9.4%	8.6%	0.0%	18.0%	36,628.20	24,011.82	60,640.02	264,130.02	1,726.00	264,078.00	0.105%
	Subtotal			17,757,142.00					3,196,285.56	2,095,342.76	5,291,628.32	23,048,770.32		23,045,877.00	9.146%
Part H	Miscellaneous Structures														
600(1)a	Concrete Curb, Type A (200x450mm)	39.00	m	13,611.00	9.4%	8.6%	0.0%	18.0%	2,449.98	1,606.10	4,056.08	17,667.08	453.00	17,667.00	0.007%
600(1)b	Concrete Curb, Type B (175x318mm)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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)	1,466.00	m	603,992.00	9.4%	8.6%	0.0%	18.0%	108,718.56	71,271.06	179,989.62	783,981.62	535.00	784,310.00	0.311%
600(3)b	Combination Concrete Curb & Gutter/Side Strip, Type B (675x334mm)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
601(1)	PCC Pavement for Sidewalk (t=100mm)	0.00	m ²	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
602(1)	Right-of-Way Monuments	351.00	each	124,254.00	9.4%	8.6%	0.0%	18.0%	22,365.72	14,661.97	37,027.69	161,281.69	459.00	161,109.00	0.064%
602(2)	Maintenance Marker Posts for Drainage Structure	51.00	each	42,330.00	9.4%	8.6%	0.0%	18.0%	7,619.40	4,994.94	12,614.34	54,944.34	1,077.00	54,927.00	0.022%
602(3)	Kilometer Post	6.00	each	7,440.00	9.4%	8.6%	0.0%	18.0%	1,339.20	877.92	2,217.12	9,657.12	1,610.00	9,660.00	0.004%
603(3)a	Metal Guardrails (Metal Beam) Type A (Embedded in Soil)	680.00	m	677,280.00	9.4%	8.6%	0.0%	18.0%	121,910.40	79,919.04	201,829.44	879,109.44	1,293.00	879,240.00	0.349%
603(3)b	Metal Guardrails (Metal Beam) Type B (Embedded in Concrete)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
604(1)	Fencing (Barbed Wire)	0.00	m	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(1)a	Warning Signs (Triangular 900mm)	17.00	each	118,490.00	9.4%	8.6%	0.0%	18.0%	21,328.20	13,981.82	35,310.02	153,800.02	9,047.00	153,799.00	0.061%
605(1)b	Warning Signs (Circular ϕ 900mm)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	1,551.80	1,017.16	2,568.96	11,188.76	11,189.00	11,189.00	0.004%
605(2)b	Regulatory Signs (Octagonal 600mm)	7.00	each	43,190.00	9.4%	8.6%	0.0%	18.0%	7,774.20	5,095.42	12,870.62	56,060.62	8,009.00	56,063.00	0.022%
605(2)c	Regulatory Signs (Circular ϕ 600mm)	11.00	each	65,560.00	9.4%	8.6%	0.0%	18.0%	11,800.80	7,736.08	19,536.88	85,096.88	7,736.00	85,096.00	0.034%
605(2)d	Regulatory Signs (Rectangular 450mmx750mm)	11.00	each	74,580.00	9.4%	8.6%	0.0%	18.0%	13,424.40	8,800.44	22,224.84	96,804.84	8,800.00	96,800.00	0.038%

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	
605(3)a	Informatory Signs (Rectangular 0.75mx1.00m, single post)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
605(3)c	Informatory Signs (Type B, double post)	1.00	each	49,300.00	9.4%	8.6%	0.0%	18.0%	8,874.00	5,817.40	14,691.40	63,991.40	63,991.00	63,991.00	0.025%
605(3)d	Informatory Signs (Type C, double post)	1.00	each	79,200.00	9.4%	8.6%	0.0%	18.0%	14,256.00	9,345.60	23,601.60	102,801.60	102,802.00	102,802.00	0.041%
605(3)e	Informatory Signs (Type D, double post)	1.00	each	111,000.00	9.4%	8.6%	0.0%	18.0%	19,980.00	13,098.00	33,078.00	144,078.00	144,078.00	144,078.00	0.057%
605(3)f	Informatory Signs (Type E, triple post)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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)	28.00	each	21,700.00	9.4%	8.6%	0.0%	18.0%	3,906.00	2,560.60	6,466.60	28,166.60	1,006.00	28,168.00	0.011%
607(2)b	Reflectorized Pavement Studs (Raised Profile Type, two faces reflective)	112.00	each	93,632.00	9.4%	8.6%	0.0%	18.0%	16,853.76	11,048.58	27,902.34	121,534.34	1,085.00	121,520.00	0.048%
607(3)	Chatter Bars (one side reflective)	260.00	each	475,800.00	9.4%	8.6%	0.0%	18.0%	85,644.00	56,144.40	141,788.40	617,588.40	2,375.00	617,500.00	0.245%
608(1)	Furnishing and Placing Top Soil for Plantation	27,486.00	m3	5,772,060.00	9.4%	8.6%	0.0%	18.0%	1,038,970.80	681,103.08	1,720,073.88	7,492,133.88	273.00	7,503,678.00	2.973%
610(1)	Sodding	137,429.00	m2	7,627,309.50	9.4%	8.6%	0.0%	18.0%	1,372,915.71	900,022.52	2,272,938.23	9,900,247.73	72.00	9,894,888.00	3.929%
611(1)a	Trees (Furnishing and Transplanting) Low Tree H≤1.5m	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	556.00	each	611,600.00	9.4%	8.6%	0.0%	18.0%	110,088.00	72,168.80	182,256.80	793,856.80	1,428.00	793,968.00	0.315%
611(2)a	Trees (Transplanting) Low Tree H≤1.5m	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
612(1)a	Reflectorized Thermoplastic Pavement Markings (White)	2,478.00	m2	1,120,056.00	9.4%	8.6%	0.0%	18.0%	201,610.08	132,166.61	333,776.69	1,453,832.69	587.00	1,454,586.00	0.577%
612(1)b	Reflectorized Thermoplastic Pavement Markings (Yellow)	141.00	m2	65,424.00	9.4%	8.6%	0.0%	18.0%	11,776.32	7,720.03	19,496.35	84,920.35	602.00	84,882.00	0.034%
SPL 612(2)	Removal of Existing Thermoplastic Pavement Markings	0.00	m2	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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)	2.00	each	80,600.00	9.4%	8.6%	0.0%	18.0%	14,508.00	9,510.80	24,018.80	104,618.80	52,309.00	104,618.00	0.042%
SPL 620(1)b	Traffic Signal Pole Type A (Mast Arm Post H=6.0m)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 620(1)c	Traffic Signal Pole Type B (φ114.3mm x 4.2m)	4.00	each	84,800.00	9.4%	8.6%	0.0%	18.0%	15,264.00	10,006.40	25,270.40	110,070.40	27,518.00	110,072.00	0.044%
SPL 620(1)d	Traffic Signal Pole Type C (φ114.3mm x 3.4m)	4.00	each	87,600.00	9.4%	8.6%	0.0%	18.0%	15,768.00	10,336.80	26,104.80	113,704.80	28,426.00	113,704.00	0.045%
SPL 620(1)e	Traffic Signal Pole Type D (φ114.3mm x 3.0m)	2.00	each	38,400.00	9.4%	8.6%	0.0%	18.0%	6,912.00	4,531.20	11,443.20	49,843.20	24,922.00	49,844.00	0.020%
SPL 620(2)a	Traffic Signal Lamps Type A (6 vehicle lamps)	3.00	each	582,000.00	9.4%	8.6%	0.0%	18.0%	104,760.00	68,676.00	173,436.00	755,436.00	251,812.00	755,436.00	0.300%

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)	11.00	each	1,155,000.00	9.4%	8.6%	0.0%	18.0%	207,900.00	136,290.00	344,190.00	1,499,190.00	136,290.00	1,499,190.00	0.595%
SPL 620(2)c	Traffic Signal Lamps Type C (2 pedestrian lamps)	6.00	each	303,600.00	9.4%	8.6%	0.0%	18.0%	54,648.00	35,824.80	90,472.80	394,072.80	65,679.00	394,074.00	0.156%
SPL 620(4)a	Street Lighting Poles (single lamp)	2.00	each	96,000.00	9.4%	8.6%	0.0%	18.0%	17,280.00	11,328.00	28,608.00	124,608.00	62,304.00	124,608.00	0.049%
SPL 620(4)b	Street Lighting Poles (double lamp)	24.00	each	1,437,600.00	9.4%	8.6%	0.0%	18.0%	258,768.00	169,636.80	428,404.80	1,866,004.80	77,750.00	1,866,000.00	0.740%
SPL 620(4)c	Bridge Lighting Poles (single lamp)	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
SPL 620(4)d	Street Lighting Service Pole with Panel	1.00	each	49,200.00	9.4%	8.6%	0.0%	18.0%	8,856.00	5,805.60	14,661.60	63,861.60	63,862.00	63,862.00	0.025%
SPL 620(4)e	Fluorescent Lighting for Underpass Culvert	0.00	each	0.00	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	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	9.4%	8.6%	0.0%	18.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.000%
	Subtotal			21,721,228.50					3,909,821.13	2,563,104.97	6,472,926.10	28,194,154.60		28,201,329.00	11.188%
Part K	Mobilization and Demobilization														
SPL 800	Mobilization and Demobilization	1.00	L.S.	696,000.00	9.4%	8.6%	0.0%	18.0%	125,280.00	82,128.00	207,408.00	903,408.00	903,408.00	903,408.00	0.358%
	Subtotal			696,000.00					125,280.00	82,128.00	207,408.00	903,408.00		903,408.00	0.358%
Part X	Provisional Sum														
SPL 900(1)	Provisional Sum for Traffic Management during Construction	1.00	L.S.	493,000.00	9.4%	8.6%	0.0%	18.0%	88,740.00	58,174.00	146,914.00	639,914.00	639,914.00	639,914.00	0.254%
SPL 900(2)	Provisional Sum for Relocation of Existing Utilities	1.00	L.S.	729,000.00	9.4%	8.6%	0.0%	18.0%	131,220.00	86,022.00	217,242.00	946,242.00	946,242.00	946,242.00	0.375%
SPL 900(3)	Provisional Sum for Geotechnical Investigation	1.00	L.S.	301,000.00	9.4%	8.6%	0.0%	18.0%	54,180.00	35,518.00	89,698.00	390,698.00	390,698.00	390,698.00	0.155%
SPL 900(4)	Provisional Sum for Maintenance and Repair of Existing Access Road	1.00	L.S.	128,000.00	9.4%	8.6%	0.0%	18.0%	23,040.00	15,104.00	38,144.00	166,144.00	166,144.00	166,144.00	0.066%
SPL 900(5)	Provisional Sum for Environmental Compliance Requirements	1.00	L.S.	602,000.00	9.4%	8.6%	0.0%	18.0%	108,360.00	71,036.00	179,396.00	781,396.00	781,396.00	781,396.00	0.310%
SPL 900(6)	Provisional Sum for Health and Safety Requirements	1.00	L.S.	494,000.00	9.4%	8.6%	0.0%	18.0%	88,920.00	58,292.00	147,212.00	641,212.00	641,212.00	641,212.00	0.254%
SPL 900(7)	Provisional Sum for Overseas Development Assistance (ODA)	1.00	L.S.	191,000.00	9.4%	8.6%	0.0%	18.0%	34,380.00	22,538.00	56,918.00	247,918.00	247,918.00	247,918.00	0.098%
SPL 900(8)	Provisional Sum for Contingency	1.00	L.S.												

3. Summary of Direct Cost

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		
Part A	Facilities for the Engineer															
A(1)a	Provision of Combined Field Office/Laboratory Bldg. and Living Quarter	L. S.	1.00	7.1%	76.4%	16.6%	52.6%	47.4%	2,360,000.00	167,009.29	1,801,874.53	391,116.18	1,241,135.33	1,118,864.67	2,360,000.00	
A(1)b	Maintenance of Field Office/Laboratory Bldg. and Living Quarter	month	24.00	85.9%	13.8%	0.2%	6.2%	93.8%	85,500.00	1,763,645.72	283,417.52	4,936.76	127,504.13	1,924,495.87	2,052,000.00	
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	24.00	0.3%	98.1%	1.6%	36.1%	63.9%	16,800.00	1,185.88	395,689.41	6,324.71	145,671.41	257,528.59	403,200.00	
A(1)f	Provide/Operate/Maintain Communication Equipment	month	24.00	0.3%	99.3%	0.4%	61.9%	38.1%	5,950.00	499.56	141,734.89	565.54	88,351.08	54,448.92	142,800.00	
A(2)a	Provision of vehicles (sedan) for the Engineer (Rental including operation & maintenance)	veh-m	24.00	18.1%	8.0%	74.0%	67.9%	32.1%	71,700.00	311,004.38	137,121.38	1,272,674.24	1,169,113.05	551,686.95	1,720,800.00	
A(2)b	Provision of vehicles (wagon) for the Engineer (Rental including operation & maintenance)	veh-m	48.00	14.9%	6.7%	78.4%	70.9%	29.1%	86,900.00	623,128.92	278,380.14	3,269,690.94	2,955,847.99	1,215,352.01	4,171,200.00	
A(2)c	Provision of vehicles (pick-up) for the Engineer (Rental including operation & maintenance)	veh-m	72.00	25.7%	11.1%	63.1%	60.8%	39.2%	50,300.00	932,488.86	403,387.21	2,285,723.92	2,201,301.99	1,420,298.01	3,621,600.00	
A(3)	Provision of Testing Equipment, Apparatus and Publications	L. S.	1.00	0.1%	99.6%	0.3%	72.5%	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	1,611.00	3.5%	96.0%	0.5%	25.2%	74.8%	117.00	6,578.72	181,010.72	897.56	47,446.41	141,040.59	188,487.00	
Part C	Earthwork															
100(1)	Clearing and Grubbing	ha	31.00	35.8%	5.4%	58.9%	35.4%	64.6%	38,900.00	431,179.30	64,623.96	710,096.74	426,471.87	779,428.13	1,205,900.00	
100(3)	Individual Removal of Trees, small (150mm ≤ ϕ < 900mm)	each	117.00	92.6%	0.7%	6.7%	4.1%	95.9%	89.60	9,706.67	77.65	698.88	427.09	10,056.11	10,483.20	
100(4)	Individual Removal of Trees, large (ϕ > 900mm)	each	28.00	92.6%	0.7%	6.7%	4.1%	95.9%	123.00	3,188.89	25.51	229.60	140.31	3,303.69	3,444.00	
101(1)	Removal of Structures and Obstructions	L. S.	1.00	11.5%	8.2%	80.3%	48.9%	51.1%	50,800.00	5,853.25	4,166.49	40,780.26	24,826.20	25,973.80	50,800.00	
101(2)a	Removal of Existing Pedestrian Bridge (San Jose, at Bridge No. 2)	each	0.00	12.5%	8.4%	79.2%	48.3%	51.7%	66,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(2)b	Removal of Existing Bridge (Plaridel at Bridge No. 9)	each	0.00	12.5%	8.4%	79.2%	48.3%	51.7%	102,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(3)a	Removal of Existing PCC Pavement	m2	1,942.00	8.4%	8.9%	82.7%	50.8%	49.2%	91.00	14,845.52	15,726.53	146,149.95	89,698.61	87,023.39	176,722.00	
101(3)b	Removal of Existing Gravel Pavement	m2	0.00	15.6%	12.6%	71.8%	47.2%	52.8%	37.10	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	72.7%	4.1%	22.3%	14.7%	84.3%	18.90	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	66.0%	5.0%	29.0%	19.0%	81.0%	21.30	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	48.6%	5.3%	46.1%	28.5%	71.5%	90.80	0.00	0.00	0.00	0.00	0.00	0.00	
101(5)a	Removal of Existing Guardrails	m	0.00	69.1%	6.1%	24.7%	17.4%	82.6%	42.30	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%	127.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(7)	Removal of Existing Slope Protection	m3	0.00	12.6%	7.5%	79.9%	48.3%	51.7%	771.00	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	13.7%	11.8%	74.5%	48.2%	51.8%	181.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(9)	Removal of Existing Gabion	m3	0.00	19.4%	11.0%	69.6%	45.0%	55.0%	194.00	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%	74.4%	19.0%	57.6%	42.4%	4,430,000.00	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	25.7%	14.8%	59.6%	41.8%	58.2%	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(12)	Relocation of Existing Road Signs	each	0.00	34.9%	26.8%	38.3%	32.4%	67.6%	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	26.4%	10.5%	63.1%	41.1%	58.9%	423.00	0.00	0.00	0.00	0.00	0.00	0.00	
101(14)	Removal of Existing Concrete Revetment	L. S.	0.00	11.5%	8.2%	80.3%	48.9%	51.1%	62,900.00	0.00	0.00	0.00	0.00	0.00	0.00	

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local	
102(1)	Unsuitable Excavation	m3	113,108.00	7.0%	13.6%	79.4%	52.0%	48.0%	125.00	990,106.07	1,920,198.31	11,228,195.61	7,345,678.15	6,792,821.85	14,138,500.00	
102(2)	Surplus Common Excavation	m3	0.00	7.0%	13.6%	79.4%	52.0%	48.0%	125.00	0.00	0.00	0.00	0.00	0.00	0.00	
103(1)	Structure Excavation	m3	1,532.00	7.0%	10.5%	82.5%	51.7%	48.3%	146.00	15,562.64	23,532.89	184,576.46	115,695.57	107,976.43	223,672.00	
103(2)a	Bridge Excavation above OWL (Common Soil)	m3	323.00	7.0%	10.6%	82.5%	51.7%	48.3%	146.00	3,282.73	4,986.39	38,888.88	24,394.22	22,763.78	47,158.00	
103(2)b	Bridge Excavation above OWL (Rocky Soil)	m3	0.00	5.1%	9.2%	85.7%	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	0.00	9.3%	29.3%	61.3%	49.5%	50.5%	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
103(2)d	Bridge Excavation below OWL (Rocky Soil)	m3	0.00	8.7%	26.3%	64.9%	49.9%	50.1%	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
103(3)a	Gravel Foundation Fill	m3	132.00	25.2%	12.9%	61.9%	38.8%	61.2%	391.00	12,995.37	6,645.09	31,971.54	20,030.24	31,581.76	51,612.00	
103(3)b	Selected Sand Bedding	m3	0.00	34.5%	15.0%	50.5%	32.9%	67.1%	277.00	0.00	0.00	0.00	0.00	0.00	0.00	
103(6)	Pipe Culverts and Drain Excavation	m3	3,905.00	7.7%	12.4%	79.8%	51.5%	48.5%	142.00	42,832.47	69,020.06	442,657.48	285,528.99	268,981.01	554,510.00	
103(7)	Granular Backfill for Pipe Culverts	m3	1,813.00	31.3%	16.0%	52.8%	34.8%	65.2%	277.00	156,941.27	80,210.70	265,049.02	174,561.55	327,639.45	502,201.00	
104(1)	Embankment from Excavated Soil	m3	76,748.00	5.2%	10.7%	84.1%	52.7%	47.3%	149.00	593,065.92	1,223,072.36	9,619,313.72	6,021,508.04	5,413,943.96	11,435,452.00	
104(3)	Embankment from Borrow Soil	m3	186,674.00	5.4%	21.8%	72.8%	47.0%	53.0%	171.00	1,714,805.46	6,970,246.14	23,236,202.41	14,989,174.41	16,932,079.59	31,921,254.00	
104(4)	Embankment from Borrow (Selected Granular Material) for Bridge	m3	600.00	10.8%	17.4%	71.8%	45.6%	54.4%	255.00	16,541.05	26,558.84	109,900.11	69,840.53	83,159.47	153,000.00	
105(1)	Subgrade Preparation (Common Soil)	m2	32,593.00	7.3%	8.2%	84.5%	51.3%	48.7%	13.60	32,144.74	36,542.49	374,577.57	227,276.56	215,988.24	443,264.80	
105(2)	Subgrade Preparation (Existing Gravel Surface)	m2	0.00	7.3%	8.2%	84.5%	51.3%	48.7%	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
Part D																
200(1)	Subbase and Base Course	m3	25,936.00	8.6%	13.3%	78.1%	48.3%	51.7%	481.00	1,069,414.39	1,659,356.03	9,745,445.57	6,030,305.37	6,444,910.63	12,475,216.00	
200(2)	Aggregate Subbase Course using materials born by removal of existing gravel pavement	m3	0.00	7.2%	8.4%	84.4%	51.3%	48.7%	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
201(1)	Aggregate Base Course	m3	8,576.00	8.6%	13.1%	78.3%	48.4%	51.6%	506.00	374,121.70	568,094.89	3,397,239.41	2,101,336.83	2,238,119.17	4,339,456.00	
204(1)	Cement Stabilized Sand Base Course	m3	0.00	6.2%	41.3%	52.5%	51.7%	48.3%	595.00	0.00	0.00	0.00	0.00	0.00	0.00	
Part E																
300(1)	Surface Courses	m3	9,964.00	9.9%	14.0%	76.1%	47.7%	52.3%	480.00	471,640.34	669,971.08	3,641,108.58	2,282,288.81	2,500,431.19	4,782,720.00	
301(1)	Gravel Surface Course	t	0.00	0.6%	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)	Prime Coat	t	0.00	0.7%	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)	Tack Coat	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(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	31.1%	64.6%	4.3%	44.0%	56.0%	32.20	0.00	0.00	0.00	0.00	0.00	0.00	
311(1)a	PCC Pavement (Plain), t=280mm	m2	0.00	7.4%	64.6%	28.0%	53.9%	46.1%	610.00	0.00	0.00	0.00	0.00	0.00	0.00	
311(1)b	PCC Pavement (Plain), t=250mm	m2	51,222.00	7.8%	63.7%	28.6%	53.6%	46.4%	565.00	2,248,448.22	18,421,318.71	8,270,663.08	15,517,959.08	13,422,470.92	28,940,430.00	
311(1)c	PCC Pavement (Plain), t=230mm	m2	5,975.00	8.1%	62.9%	29.0%	53.4%	46.6%	532.00	257,171.68	1,998,235.45	923,292.88	1,698,607.68	1,480,092.32	3,178,700.00	
311(1)d	PCC Pavement (Plain), t=180mm	m2	0.00	9.0%	60.6%	30.4%	53.0%	47.0%	453.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 311(1)e	PCC Pavement (Lean Mix Concrete)	m3	0.00	13.1%	47.8%	39.1%	49.0%	51.0%	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 311(2)	PCC Pavement (Reinforced), t=300mm (Approach Slab)	m2	120.00	12.0%	74.2%	13.8%	53.7%	46.3%	2,060.00	29,551.29	183,504.65	34,144.06	132,742.70	114,457.30	247,200.00	
Part F																
400(3)a	Bridge Construction	m	0.00	2.2%	82.2%	15.6%	65.6%	34.4%	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
400(4)a	Steel H Piles (450mmx260kg/m), Precast RC Concrete Pile (400mm x 400mm), furnished	m	0.00	12.0%	71.1%	16.8%	54.1%	45.9%	1,570.00	0.00	0.00	0.00	0.00	0.00	0.00	
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	m	1,582.00	12.1%	71.2%	16.8%	54.1%	45.9%	2,000.00	381,389.90	2,251,699.16	530,910.94	1,710,338.14	1,453,661.86	3,164,000.00	
400(10)a	Steel H Piles (450mmx260kg/m), driven	m	0.00	6.7%	33.6%	59.7%	54.5%	45.5%	624.00	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	8.9%	12.5%	78.7%	51.2%	48.8%	331.00	0.00	0.00	0.00	0.00	0.00	0.00	
400(13)b	Precast Concrete Piles (450mm x 450mm), driven	m	1,496.00	8.9%	12.5%	78.6%	51.2%	48.8%	351.00	46,520.84	65,644.90	412,930.26	269,015.16	256,080.84	525,096.00	
400(15)a	Test Piles (400mm x 400mm), furnished & driven	m	0.00	11.6%	62.5%	25.9%	53.7%	46.3%	1,840.00	0.00	0.00	0.00	0.00	0.00	0.00	
400(15)b	Test Piles (450mm x 450mm), furnished & driven	m	51.00	11.7%	63.8%	24.5%	53.7%	46.3%	2,290.00	13,625.99	74,546.15	28,617.86	62,754.24	54,035.76	116,790.00	
400(15)c	Test Piles (Steel H Piles 460mmx260kg/m), furnished & driven	m	0.00	2.6%	78.3%	19.1%	64.8%	35.2%	7,000.00	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		
400(16)a	Cast-in-place Concrete Bored Piles ϕ 1000mm	m	0.00	7.9%	44.2%	47.9%	57.0%	43.0%	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	8.4%	48.1%	43.5%	57.0%	43.0%	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	8.5%	50.3%	41.2%	56.9%	43.1%	24,200.00	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	7.8%	38.9%	53.2%	57.1%	42.9%	10,900.00	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	6.6%	89.8%	3.6%	62.0%	38.0%	718.00	0.00	0.00	0.00	0.00	0.00	0.00	
400(19)b	Pile shoes for 450mm x 450mm Piles	each	70.00	6.6%	89.8%	3.6%	62.0%	38.0%	718.00	3,317.21	45,111.75	1,831.04	31,145.22	19,114.78	50,260.00	
400(20)a	Splices for 400mm x 400mm 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(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%	55.8%	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%	121,000.00	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	72.00	27.2%	64.2%	8.6%	38.3%	61.7%	1,240.00	24,309.20	57,334.08	7,636.72	34,175.47	55,104.53	89,280.00	
401(1)b	Concrete Railing Type B (Concrete Wall Type)	m	0.00	25.6%	63.0%	11.4%	38.3%	61.7%	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%	74.8%	18.0%	62.4%	37.6%	2,720.00	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%	71.5%	3.4%	51.0%	25.9%	2,720.00	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%	85.5%	9.4%	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%	85.5%	9.4%	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%	85.5%	9.4%	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%	85.5%	9.4%	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%	77.3%	20.0%	66.4%	33.6%	73.90	0.00	0.00	0.00	0.00	0.00	0.00	
403(5)	Structural Steel for Pampanga River Bridge, erected	kg	0.00	6.1%	58.0%	35.9%	50.6%	49.4%	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	6.6%	78.8%	14.7%	62.1%	37.9%	5,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
404(1)	Reinforcement Steel Grade 40	kg	128,709.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	464,226.72	2,312,758.86	234,805.02	1,621,864.97	1,389,925.53	3,011,790.60	
404(2)	Reinforcement Steel Grade 60	kg	25,623.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	92,161.20	487,508.83	48,093.47	341,134.95	286,628.55	627,763.50	
405(1)a	Structural Concrete Class A (f_c' =21MPa, max. aggregate 38mm) for heavily reinforced structures	m3	1,042.00	25.8%	57.4%	16.7%	35.4%	64.6%	3,150.00	847,543.78	1,885,273.26	549,482.95	1,162,395.22	2,119,904.78	3,282,300.00	
405(1)b	Structural Concrete Class A (f_c' =21MPa, max. aggregate 38mm) for small & medium bridges substructures	m3	378.00	12.9%	65.5%	21.6%	47.2%	52.8%	2,220.00	107,832.82	549,844.16	181,483.02	395,692.64	443,467.36	839,160.00	
405(1)c	Structural Concrete Class A1 (f_c' =21MPa, max. aggregate 20mm) for small & medium bridges RC DG	m3	0.00	26.4%	56.6%	17.0%	35.8%	64.2%	4,100.00	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		Material	Component (PP)		Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local				Equipment					
405(1)d	Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges PCBG	m3	118.00	21.6%	58.2%	20.2%	39.2%	60.8%	3,990.00	101,621.81	274,190.21	95,007.98	184,470.11	286,349.89	470,820.00		
405(1)e	Structural Concrete Class AA1 (fc'=28MPa, max. aggregate 25) for long bridge substructures	m3	0.00	11.2%	68.2%	20.6%	49.3%	50.7%	2,330.00	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	22.0%	59.0%	19.0%	39.1%	60.9%	4,430.00	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	585.00	22.8%	58.1%	19.1%	37.9%	62.1%	2,370.00	369,840.61	943,080.02	310,529.37	614,513.05	1,008,936.95	1,623,450.00		
405(3)	Structural Concrete Class C (fc'=21MPa, max. aggregate 12mm) for thin reinforced members	m3	19.00	16.9%	64.7%	18.4%	43.4%	56.6%	2,560.00	8,207.61	31,485.59	8,946.80	21,100.91	27,539.09	48,640.00		
405(4)b	Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed box girders in Angat Bridge	m3	0.00	27.3%	52.4%	20.3%	38.9%	61.1%	4,160.00	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	28.6%	55.3%	16.1%	36.8%	63.2%	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00		
405(6)	Lean Concrete (17MPa, max. agg. 38mm), poured	m3	125.00	8.7%	68.5%	22.8%	49.6%	50.4%	1,910.00	20,782.18	163,514.47	54,453.36	118,425.12	120,324.88	238,750.00		
406(1)a	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=20m), fabricated & erected	each	0.00	12.9%	79.6%	7.5%	56.5%	43.5%	187,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
406(1)b	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=22m), fabricated & erected	each	0.00	12.9%	79.5%	7.6%	56.4%	43.6%	200,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
406(1)c	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=24m), fabricated & erected	each	0.00	11.4%	82.2%	6.4%	58.4%	41.6%	262,000.00	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	0.00	11.4%	82.2%	6.4%	58.3%	41.7%	270,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
406(1)e	Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=30m), fabricated & erected	each	0.00	10.2%	81.9%	8.0%	59.2%	40.8%	381,000.00	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	10.2%	81.8%	8.0%	59.2%	40.8%	389,000.00	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	11.1%	80.4%	8.5%	58.0%	42.0%	436,000.00	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	11.1%	80.4%	8.5%	58.0%	42.0%	438,000.00	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	10.5%	81.4%	8.0%	58.7%	41.3%	489,000.00	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	10.3%	81.1%	8.6%	58.7%	41.3%	541,000.00	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	5.00	10.3%	81.1%	8.6%	58.7%	41.3%	554,000.00	286,313.63	2,245,523.07	238,163.30	1,625,048.05	1,144,951.95	2,770,000.00		
406(1)l	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.4m), fabricated & erected	each	0.00	11.0%	80.3%	8.7%	57.9%	42.1%	714,000.00	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	11.0%	80.3%	8.7%	57.9%	42.1%	716,000.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
406(1)n	Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=40m), fabricated & erected	each	0.00	10.5%	80.7%	8.8%	58.3%	41.7%	648,000.00	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	10.0%	83.7%	6.2%	60.3%	39.7%	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	9.0%	86.2%	4.9%	63.4%	36.6%	226.00	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	13.0%	78.8%	8.2%	59.2%	40.8%	220.00	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	7.3%	87.2%	5.5%	64.9%	35.1%	263.00	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	7.9%	85.5%	6.5%	64.9%	35.1%	380.00	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	10.2%	85.3%	4.5%	61.9%	38.1%	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%	11,600.00	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	10.00	1.5%	97.3%	1.2%	64.0%	36.0%	21,500.00	3,279.96	209,190.63	2,529.41	137,602.93	77,397.07	215,000.00		
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%	97.7%	1.2%	64.5%	35.5%	30,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
407(1)f	Elastomeric Bearing Pad, Duro 60 (450x300x60mm)	each	0.00	1.6%	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	2.2%	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	1.2%	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	20.00	0.3%	98.6%	1.2%	64.8%	35.2%	66,000.00	3,447.02	1,301,017.90	15,535.08	854,846.74	465,153.26	1,320,000.00		
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	4.00	10.9%	88.4%	0.7%	53.4%	46.6%	149.00	65.20	526.67	4.13	318.19	277.81	596.00		
SPL 407(3)a	Restraining Bar ϕ 32 x 1495mm	each	0.00	6.6%	88.3%	5.2%	61.7%	38.3%	6,180.00	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	6.1%	88.7%	5.2%	62.2%	37.8%	6,600.00	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%	94.2%	3.0%	65.8%	34.2%	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	3.3%	93.7%	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	3.00	10.7%	87.3%	2.0%	53.7%	46.3%	846.00	271.63	2,214.62	51.75	1,363.26	1,174.74	2,538.00		
SPL 407(5)a	Pier Protection Concrete Blocks for Angat Bridge	m2	0.00	13.8%	55.6%	30.6%	49.9%	50.1%	796.00	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	13.8%	55.5%	30.6%	49.9%	50.1%	796.00	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	13.9%	56.1%	30.0%	49.9%	50.1%	832.00	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	11.3%	41.7%	47.1%	50.0%	50.0%	494,000.00	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)	
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	7.9%	7.4%	84.7%	54.6%	45.4%	32,100,000.00	0.00	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	0.00	
SPL 420(4)b	Temporary Craneway for Talavera Bridge Construction	m	0.00	1.4%	94.4%	4.2%	49.7%	50.3%	132,000.00	0.00	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	2.0%	91.8%	6.2%	49.5%	50.5%	105,000.00	0.00	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	6.0%	17.1%	76.9%	49.5%	50.5%	6,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(5)b	Temporary Access Road (Causeway) for Talavera Bridge Construction	m	0.00	6.1%	17.0%	76.9%	49.5%	50.5%	5,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(5)c	Temporary Cofferdam for Pier Construction (Angat Bridge Type 1)	each	0.00	9.6%	45.3%	45.1%	48.1%	51.9%	2,260,000.00	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 2)	each	0.00	10.3%	42.5%	47.2%	47.9%	52.1%	2,910,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)b	Temporary Cofferdam for Pier Construction (Pampanga Bridge)	each	0.00	10.3%	41.4%	48.3%	47.9%	52.1%	2,350,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 420(6)c	Temporary Cofferdam for Pier Construction (Talavera Bridge)	each	0.00	8.9%	46.1%	45.0%	48.4%	51.6%	1,650,000.00	0.00	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	20.3%	50.3%	29.4%	46.6%	53.4%	726.00	0.00	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	18.0%	53.8%	28.1%	48.1%	51.9%	1,110.00	0.00	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	17.2%	55.8%	27.0%	48.7%	51.3%	1,590.00	0.00	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	14.9%	55.2%	29.9%	50.1%	49.9%	2,500.00	0.00	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	14.6%	56.4%	29.0%	50.3%	49.7%	3,180.00	0.00	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	14.2%	57.4%	28.4%	50.6%	49.4%	3,930.00	0.00	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	13.3%	57.9%	28.8%	51.2%	48.8%	5,820.00	0.00	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	20.0%	52.9%	27.0%	47.1%	52.9%	781.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)b4	RCPC Standard Strength (32MPa), ϕ 610mm (24")	m	66.00	17.8%	56.1%	26.1%	48.6%	51.4%	1,200.00	14,073.57	44,449.30	20,677.14	38,476.77	40,723.23	79,200.00		
500(1)b5	RCPC Standard Strength (32MPa), ϕ 760mm (30")	m	0.00	17.2%	57.2%	25.6%	48.9%	51.1%	1,630.00	0.00	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	14.9%	57.1%	28.0%	50.3%	49.7%	2,660.00	0.00	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	14.7%	57.8%	27.5%	50.5%	49.5%	3,280.00	0.00	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	14.2%	59.1%	26.7%	50.9%	49.1%	4,160.00	0.00	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	13.4%	59.5%	27.0%	51.4%	48.6%	6,130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c3	RCPC Extra Strength (32MPa), ϕ 460mm (18")	m	0.00	18.4%	55.7%	26.0%	48.2%	51.8%	949.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c4	RCPC Extra Strength (32MPa), ϕ 610mm (24")	m	22.00	16.8%	57.5%	25.6%	49.2%	50.8%	1,360.00	5,034.37	17,211.18	7,674.45	14,713.32	15,206.68	29,920.00		
500(1)c5	RCPC Extra Strength (32MPa), ϕ 760mm (30")	m	0.00	16.2%	59.1%	24.7%	49.7%	50.3%	1,940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500(1)c6	RCPC Extra Strength (32MPa), ϕ 910mm (36")	m	363.00	14.3%	58.6%	27.1%	50.8%	49.2%	3,160.00	163,644.60	672,710.83	310,724.57	582,933.73	564,146.27	1,147,080.00		

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		
500(1)c7	RCPC Extra Strength (32MPa), ϕ 1070mm (42")	m	388.00	14.0%	60.8%	25.2%	51.3%	48.7%	4,550.00	247,071.00	1,073,943.64	444,385.37	904,855.24	860,544.76	1,765,400.00	
500(1)c8	RCPC Extra Strength (32MPa), ϕ 1220mm (48")	m	48.00	13.7%	60.4%	25.9%	51.3%	48.7%	4,980.00	32,636.67	144,398.61	62,004.72	122,595.12	116,444.88	239,040.00	
500(1)c9	RCPC Extra Strength (32MPa), ϕ 1520mm (60")	m	0.00	13.1%	61.8%	25.1%	51.9%	48.1%	8,420.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a1	Drop Inlet Manhole for RCPC 1- ϕ 460 x 1- ϕ 460	each	0.00	31.8%	59.3%	8.9%	32.8%	67.2%	6,130.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a2	Drop Inlet Manhole for RCPC 1- ϕ 610 x 1- ϕ 460	each	0.00	31.8%	59.1%	9.1%	32.7%	67.3%	7,170.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a3	Drop Inlet Manhole for RCPC 1- ϕ 760 x 1- ϕ 460	each	0.00	31.9%	58.8%	9.3%	32.4%	67.6%	8,570.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a4	Drop Inlet Manhole for RCPC 1- ϕ 910 x 1- ϕ 460	each	0.00	32.0%	58.6%	9.4%	32.1%	67.9%	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a5	Drop Inlet Manhole for RCPC 1- ϕ 1070 x 1- ϕ 460	each	0.00	32.1%	58.4%	9.5%	31.9%	68.1%	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a6	Drop Inlet Manhole for RCPC 1- ϕ 1220 x 1- ϕ 460	each	0.00	32.3%	58.1%	9.6%	31.5%	68.5%	13,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a7	Drop Inlet Manhole for RCPC 1- ϕ 1520 x 1- ϕ 460	each	0.00	32.5%	57.8%	9.7%	31.2%	68.8%	16,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a12	Drop Inlet Manhole for RCPC 1- ϕ 610 x 1- ϕ 610	each	0.00	31.6%	59.2%	9.2%	32.9%	67.1%	7,870.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a13	Drop Inlet Manhole for RCPC 1- ϕ 760 x 1- ϕ 610	each	0.00	31.7%	58.9%	9.4%	32.6%	67.4%	9,380.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a14	Drop Inlet Manhole for RCPC 1- ϕ 910 x 1- ϕ 610	each	0.00	31.8%	58.6%	9.5%	32.2%	67.8%	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a15	Drop Inlet Manhole for RCPC 1- ϕ 1070 x 1- ϕ 610	each	0.00	31.9%	58.5%	9.6%	32.1%	67.9%	12,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a16	Drop Inlet Manhole for RCPC 1- ϕ 1220 x 1- ϕ 610	each	0.00	32.0%	58.3%	9.7%	31.8%	68.2%	14,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a17	Drop Inlet Manhole for RCPC 1- ϕ 1520 x 1- ϕ 610	each	0.00	32.2%	57.9%	9.8%	31.4%	68.6%	17,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a22	Drop Inlet Manhole for RCPC 2- ϕ 610 x 1- ϕ 610	each	0.00	30.8%	59.4%	9.8%	33.5%	66.5%	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a23	Drop Inlet Manhole for RCPC 2- ϕ 760 x 1- ϕ 610	each	0.00	31.1%	59.0%	9.9%	33.0%	67.0%	14,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a24	Drop Inlet Manhole for RCPC 2- ϕ 910 x 1- ϕ 610	each	0.00	31.3%	58.7%	10.0%	32.7%	67.3%	18,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a25	Drop Inlet Manhole for RCPC 2- ϕ 1070 x 1- ϕ 610	each	0.00	31.4%	58.6%	10.1%	32.6%	67.4%	20,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a26	Drop Inlet Manhole for RCPC 2- ϕ 1220 x 1- ϕ 610	each	0.00	31.7%	58.2%	10.1%	32.1%	67.9%	24,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)a27	Drop Inlet Manhole for RCPC 2- ϕ 1520 x 1- ϕ 610	each	0.00	31.9%	57.9%	10.2%	31.7%	68.3%	31,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b1	Special Junction Box Manhole for RCPC 1- ϕ 460 x 1- ϕ 460	each	20.00	33.5%	60.5%	6.0%	33.3%	66.7%	7,690.00	51,539.39	93,101.44	9,159.17	51,278.56	102,521.44	153,800.00	
502(2)b2	Special Junction Box Manhole for RCPC 1- ϕ 610 x 1- ϕ 460	each	20.00	33.4%	60.3%	6.3%	33.2%	66.8%	8,830.00	58,981.22	106,521.66	11,097.12	58,651.12	117,948.88	176,600.00	
502(2)b3	Special Junction Box Manhole for RCPC 1- ϕ 760 x 1- ϕ 460	each	0.00	33.5%	59.9%	6.7%	32.8%	67.2%	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- ϕ 910 x 1- ϕ 460	each	0.00	33.5%	59.5%	7.0%	32.4%	67.6%	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- ϕ 1070 x 1- ϕ 460	each	0.00	33.6%	59.2%	7.2%	32.2%	67.8%	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- ϕ 1220 x 1- ϕ 460	each	0.00	33.7%	58.9%	7.4%	31.8%	68.2%	15,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b7	Special Junction Box Manhole for RCPC 1- ϕ 1520 x 1- ϕ 460	each	0.00	27.6%	64.3%	8.1%	38.7%	61.3%	27,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b12	Special Junction Box Manhole for RCPC 1- ϕ 610 x 1- ϕ 610	each	0.00	33.2%	60.4%	6.5%	33.4%	66.6%	9,650.00	0.00	0.00	0.00	0.00	0.00	0.00	
502(2)b13	Special Junction Box Manhole for RCPC 1- ϕ 760 x 1- ϕ 610	each	0.00	33.2%	59.9%	6.9%	32.9%	67.1%	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- ϕ 910 x 1- ϕ 610	each	12.00	33.3%	59.5%	7.2%	32.5%	67.5%	13,000.00	52,024.75	92,813.35	11,161.90	50,709.44	105,290.56	156,000.00	

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				
502(2)b15	Special Junction Box Manhole for RCPC 1-φ 1070 x 1-φ 610	each	12.00	33.3%	59.4%	7.4%	32.4%	67.6%	14,400.00	57,492.11	102,589.31	12,718.58	56,022.05	116,777.95	172,800.00			
502(2)b16	Special Junction Box Manhole for RCPC 1-φ 1220 x 1-φ 610	each	0.00	33.5%	59.0%	7.6%	32.0%	68.0%	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-φ 1520 x 1-φ 610	each	0.00	27.4%	64.4%	8.2%	38.9%	61.1%	30,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b21	Special Junction Box Manhole for RCPC 2-φ 460 x 1-φ 460	each	0.00	33.1%	60.5%	6.4%	33.6%	66.4%	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b22	Special Junction Box Manhole for RCPC 2-φ 610 x 1-φ 460	each	0.00	33.0%	60.2%	6.8%	33.4%	66.6%	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-φ 760 x 1-φ 460	each	0.00	33.2%	59.7%	7.2%	32.8%	67.2%	15,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b24	Special Junction Box Manhole for RCPC 2-φ 910 x 1-φ 460	each	0.00	33.2%	59.3%	7.5%	32.5%	67.5%	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-φ 1070 x 1-φ 460	each	0.00	37.9%	54.5%	7.6%	26.7%	73.3%	16,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b26	Special Junction Box Manhole for RCPC 2-φ 1220 x 1-φ 460	each	0.00	33.5%	58.6%	7.8%	31.8%	68.2%	24,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b27	Special Junction Box Manhole for RCPC 2-φ 1520 x 1-φ 460	each	0.00	27.7%	64.0%	8.3%	38.4%	61.6%	46,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b32	Special Junction Box Manhole for RCPC 2-φ 610 x 1-φ 610	each	0.00	32.7%	60.3%	7.0%	33.6%	66.4%	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-φ 760 x 1-φ 610	each	0.00	32.8%	59.8%	7.4%	33.1%	66.9%	16,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(2)b34	Special Junction Box Manhole for RCPC 2-φ 910 x 1-φ 610	each	5.00	32.9%	59.5%	7.7%	32.8%	67.2%	19,700.00	32,378.68	58,577.33	7,543.99	32,276.64	66,223.36	98,500.00			
502(2)b35	Special Junction Box Manhole for RCPC 2-φ 1070 x 1-φ 610	each	4.00	32.9%	59.3%	7.8%	32.6%	67.4%	22,600.00	29,699.10	53,620.19	7,080.71	29,503.29	60,896.71	90,400.00			
502(2)b36	Special Junction Box Manhole for RCPC 2-φ 1220 x 1-φ 610	each	0.00	33.1%	58.9%	8.0%	32.2%	67.8%	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-φ 1520 x 1-φ 610	each	0.00	27.6%	64.0%	8.4%	38.5%	61.5%	48,500.00	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-φ 460 x 1-φ 460	each	0.00	34.9%	52.5%	12.5%	31.8%	68.2%	3,960.00	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-φ 610 x 1-φ 460	each	0.00	34.6%	52.4%	12.9%	32.0%	68.0%	4,360.00	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-φ 760 x 1-φ 460	each	0.00	34.6%	52.3%	13.1%	32.0%	68.0%	4,770.00	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-φ 910 x 1-φ 460	each	0.00	34.5%	52.2%	13.3%	32.1%	67.9%	5,140.00	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-φ 1070 x 1-φ 460	each	0.00	34.4%	52.1%	13.5%	32.2%	67.8%	5,590.00	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-φ 1220 x 1-φ 460	each	0.00	34.3%	52.0%	13.7%	32.2%	67.8%	5,970.00	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-φ 1520 x 1-φ 460	each	0.00	34.2%	51.8%	14.0%	32.3%	67.7%	6,760.00	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-φ 610 x 1-φ 610	each	0.00	34.5%	52.4%	13.2%	32.1%	67.9%	4,790.00	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-φ 760 x 1-φ 610	each	0.00	34.2%	52.2%	13.6%	32.2%	67.8%	5,210.00	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-φ 910 x 1-φ 610	each	0.00	34.2%	52.1%	13.7%	32.2%	67.8%	5,640.00	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-φ 1070 x 1-φ 610	each	0.00	34.1%	52.0%	14.0%	32.4%	67.6%	6,070.00	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-φ 1220 x 1-φ 610	each	0.00	34.0%	51.9%	14.1%	32.4%	67.6%	6,520.00	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-φ 1520 x 1-φ 610	each	0.00	33.8%	51.8%	14.4%	32.5%	67.5%	7,390.00	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-φ 460 x 1-φ 460	each	0.00	34.3%	52.2%	13.5%	32.2%	67.8%	5,400.00	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-φ 610 x 1-φ 460	each	0.00	34.3%	51.9%	13.8%	32.2%	67.8%	6,300.00	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-φ 760 x 1-φ 460	each	0.00	34.1%	51.8%	14.1%	32.3%	67.7%	7,220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
502(2)c24	Junction Box Converted to Curb Inlet Manhole for RCPC 2- ϕ 910 x 1- ϕ 460	each	0.00	34.1%	51.7%	14.3%	32.3%	67.7%	8,110.00	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- ϕ 1070 x 1- ϕ 460	each	0.00	33.9%	51.6%	14.4%	32.4%	67.6%	9,140.00	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- ϕ 1220 x 1- ϕ 460	each	0.00	33.9%	51.5%	14.6%	32.4%	67.6%	10,000.00	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- ϕ 1520 x 1- ϕ 460	each	0.00	33.8%	51.4%	14.8%	32.5%	67.5%	11,900.00	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- ϕ 610 x 1- ϕ 610	each	0.00	33.9%	51.8%	14.2%	32.4%	67.6%	6,890.00	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- ϕ 760 x 1- ϕ 610	each	0.00	33.8%	51.7%	14.5%	32.5%	67.5%	7,860.00	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- ϕ 910 x 1- ϕ 610	each	0.00	33.6%	51.7%	14.7%	32.6%	67.4%	8,860.00	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- ϕ 1070 x 1- ϕ 610	each	0.00	33.5%	51.6%	14.9%	32.7%	67.3%	9,940.00	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- ϕ 1220 x 1- ϕ 610	each	0.00	33.5%	51.5%	15.0%	32.7%	67.3%	10,900.00	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- ϕ 1520 x 1- ϕ 610	each	0.00	33.3%	51.4%	15.2%	32.8%	67.2%	12,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)a1	Catch Basin for RCPC 1- ϕ 460mm	each	0.00	27.5%	60.2%	12.3%	35.6%	64.4%	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)a2	Catch Basin for RCPC 1- ϕ 610mm	each	0.00	27.5%	60.1%	12.4%	35.5%	64.5%	14,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)a3	Catch Basin for RCPC 1- ϕ 760mm	each	0.00	27.5%	60.1%	12.4%	35.5%	64.5%	17,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)a4	Catch Basin for RCPC 1- ϕ 910mm	each	1.00	27.5%	60.1%	12.4%	35.5%	64.5%	19,900.00	5,468.79	11,962.94	2,468.27	7,072.38	12,827.62	19,900.00		
502(3)a5	Catch Basin for RCPC 1- ϕ 1070mm	each	2.00	27.5%	60.1%	12.4%	35.6%	64.4%	23,200.00	12,738.39	27,893.71	5,767.90	16,495.78	29,904.22	46,400.00		
502(3)a6	Catch Basin for RCPC 1- ϕ 1220mm	each	0.00	27.5%	60.1%	12.4%	35.5%	64.5%	26,500.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)a7	Catch Basin for RCPC 1- ϕ 1520mm	each	0.00	27.4%	60.1%	12.5%	35.6%	64.4%	33,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b1	Catch Basin for RCPC 2- ϕ 460mm	each	0.00	26.7%	60.6%	12.8%	36.3%	63.7%	16,200.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b2	Catch Basin for RCPC 2- ϕ 610mm	each	0.00	26.5%	60.6%	12.8%	36.5%	63.5%	20,800.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b3	Catch Basin for RCPC 2- ϕ 760mm	each	0.00	26.4%	60.7%	12.9%	36.6%	63.4%	25,700.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b4	Catch Basin for RCPC 2- ϕ 910mm	each	0.00	26.4%	60.7%	13.0%	36.6%	63.4%	30,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b5	Catch Basin for RCPC 2- ϕ 1070mm	each	0.00	26.3%	60.7%	13.0%	36.7%	63.3%	37,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b6	Catch Basin for RCPC 2- ϕ 1220mm	each	0.00	26.2%	60.8%	13.0%	36.8%	63.2%	43,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
502(3)b7	Catch Basin for RCPC 2- ϕ 1520mm	each	0.00	26.1%	60.8%	13.1%	36.9%	63.1%	57,200.00	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	6,762.00	28.6%	58.2%	13.2%	34.3%	65.7%	1,360.00	2,630,286.90	5,349,352.27	1,216,680.83	3,155,071.38	6,041,248.62	9,196,320.00		
502(4)a2	U-shaped Concrete Ditch W=0.75m x H=0.50m	m	0.00	27.1%	58.9%	14.0%	35.9%	64.1%	1,480.00	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	27.8%	58.8%	13.4%	35.3%	64.7%	939.00	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	22.4%	68.4%	9.1%	43.6%	56.4%	1,490.00	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	22.0%	69.0%	8.9%	44.1%	55.9%	2,050.00	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	30.6%	49.2%	20.2%	39.4%	60.6%	378.00	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	5,270.00	30.6%	49.2%	20.2%	39.4%	60.6%	354.00	571,375.09	917,935.51	376,269.40	735,496.92	1,130,083.08	1,865,580.00		
502(7)a	Trapezoidal Lined Ditch B=450mm, H=500mm, 1:1.00	m	994.00	30.6%	49.2%	20.2%	39.4%	60.6%	261.00	79,457.39	127,651.28	52,325.32	102,280.74	157,153.26	259,434.00		
502(7)b	Trapezoidal Lined Ditch B=1000mm, H=500mm, 1:1.00	m	3,764.00	30.6%	49.2%	20.2%	39.4%	60.6%	368.00	424,233.40	681,546.87	279,371.73	546,090.24	839,061.76	1,385,152.00		
503(3)a	Cleaning Culvert in Place, ϕ 910mm or less	m	0.00	68.0%	4.9%	27.1%	17.9%	82.1%	23.50	0.00	0.00	0.00	0.00	0.00	0.00		
503(3)b	Cleaning Culvert in Place, more than ϕ 910mm	m	0.00	61.1%	6.4%	32.5%	21.8%	78.2%	31.90	0.00	0.00	0.00	0.00	0.00	0.00		
503(4)a	Cleaning Reconditioning of RCBC, Single Barrel	m	0.00	50.0%	8.9%	41.1%	28.1%	71.9%	44.20	0.00	0.00	0.00	0.00	0.00	0.00		
503(4)b	Cleaning Reconditioning of RCBC, Double Barrel	m	0.00	41.5%	10.8%	47.7%	32.9%	67.1%	60.60	0.00	0.00	0.00	0.00	0.00	0.00		
503(4)c	Cleaning Reconditioning of RCBC, Triple Barrel	m	0.00	32.6%	12.8%	54.6%	37.9%	62.1%	88.30	0.00	0.00	0.00	0.00	0.00	0.00		
504(5)	Grouted Riprap Class A (slope protection)	m3	770.00	16.3%	59.4%	24.4%	47.6%	52.4%	799.00	100,024.53	365,169.18	150,036.29	292,564.61	322,665.39	615,230.00		
505(1)	Stone Masonry Retaining Wall	m3	0.00	15.5%	64.9%	19.5%	48.5%	51.5%	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)					Total (PP)		Component (PP)						
				Lab.	Mat.	Equip.	For.	Local			Labor	Material	Equipment	Foreign	Local	Total (PP)	
506(1)	Hand-Laid Rock Apron (Loose Boulder Apron)	m3	127.00	8.6%	12.9%	78.5%	48.5%	51.5%	448.00	4,888.65	7,365.88	44,641.47	27,576.45	29,319.55	56,896.00		
507(2)a	Steel Sheet Piles (76x457x4mm), furnished & driven	m	0.00	2.3%	79.3%	18.3%	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	0.00	1.5%	88.0%	10.5%	67.3%	32.7%	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00		
509(1)	Gabions	m3	0.00	15.0%	52.2%	32.8%	37.2%	62.8%	1,830.00	0.00	0.00	0.00	0.00	0.00	0.00		
509(2)	Gabion Mattress t=300mm	m3	0.00	9.1%	71.0%	19.9%	32.8%	67.2%	3,010.00	0.00	0.00	0.00	0.00	0.00	0.00		
509(3)	Filter Cloth	m2	0.00	2.1%	96.1%	1.8%	58.5%	41.5%	91.80	0.00	0.00	0.00	0.00	0.00	0.00		
510(1)	Rubble Concrete Slope Protection	m3	153.00	7.1%	56.9%	36.0%	52.4%	47.6%	1,330.00	14,502.18	115,775.37	73,212.44	106,624.00	96,866.00	203,490.00		
Part H	Miscellaneous Structures																
600(1)a	Concrete Curb, Type A (200x450mm)	m	39.00	40.4%	53.1%	6.5%	22.6%	77.4%	349.00	5,505.44	7,224.11	881.45	3,078.29	10,532.71	13,611.00		
600(1)b	Concrete Curb, Type B (175x318mm)	m	0.00	42.1%	51.9%	6.0%	20.9%	79.1%	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	1,466.00	31.9%	59.0%	9.1%	31.6%	68.4%	412.00	192,716.61	356,550.28	54,725.11	190,621.36	413,370.64	603,992.00		
600(3)b	Combination Concrete Curb & Gutter/Side Strip, Type B (675x334mm)	m	0.00	31.4%	59.4%	9.2%	32.1%	67.9%	389.00	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	34.6%	57.1%	8.2%	28.7%	71.3%	356.00	0.00	0.00	0.00	0.00	0.00	0.00		
601(1)	PCC Pavement for Sidewalk (t=100mm)	m2	0.00	18.1%	62.7%	12.6%	45.1%	48.3%	470.00	0.00	0.00	0.00	0.00	0.00	0.00		
602(1)	Right-of-Way Monuments	each	351.00	46.5%	46.3%	7.2%	22.5%	77.5%	354.00	57,754.11	57,509.11	8,990.79	27,947.17	96,306.83	124,254.00		
602(2)	Maintenance Marker Posts for Drainage Structure	each	51.00	52.9%	35.2%	12.0%	22.1%	77.9%	830.00	22,385.54	14,885.02	5,059.44	9,346.25	32,983.75	42,330.00		
602(3)	Kilometer Post	each	6.00	44.9%	47.3%	7.8%	24.3%	75.7%	1,240.00	3,337.73	3,522.55	579.72	1,804.39	5,635.61	7,440.00		
603(3)a	Metal Guardrails (Metal Beam) Type A (Embedded in Soil)	m	680.00	16.6%	71.4%	12.0%	53.6%	46.4%	996.00	112,453.60	483,790.17	81,036.23	362,904.48	314,375.52	677,280.00		
603(3)b	Metal Guardrails (Metal Beam) Type B (Embedded in Concrete)	m	0.00	15.2%	70.5%	14.3%	54.1%	45.9%	803.00	0.00	0.00	0.00	0.00	0.00	0.00		
604(1)	Fencing (Barbed Wire)	m	0.00	25.1%	72.2%	2.7%	11.4%	88.6%	204.00	0.00	0.00	0.00	0.00	0.00	0.00		
604(2)	Fencing (Chain Link Fence Fabric)	m	0.00	14.8%	73.1%	12.0%	54.3%	45.7%	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
604(3)	Fencing (Chain Link Fence Fabric on Bridge Railing)	m	0.00	14.9%	73.8%	11.3%	54.9%	45.1%	979.00	0.00	0.00	0.00	0.00	0.00	0.00		
605(1)a	Warning Signs (Triangular 900mm)	each	17.00	8.4%	90.2%	1.4%	57.5%	42.5%	6,970.00	9,981.09	106,903.75	1,605.15	68,121.60	50,368.40	118,490.00		
605(1)b	Warning Signs (Circular 900mm)	each	0.00	5.4%	93.5%	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	6.8%	92.0%	1.2%	58.9%	41.1%	8,620.00	586.78	7,929.85	103.37	5,076.56	3,543.44	8,620.00		
605(2)b	Regulatory Signs (Octagonal 600mm)	each	7.00	9.5%	89.0%	1.5%	56.6%	43.4%	6,170.00	4,107.38	38,452.41	630.21	24,436.32	18,753.68	43,190.00		
605(2)c	Regulatory Signs (Circular 600mm)	each	11.00	9.8%	88.7%	1.5%	56.3%	43.7%	5,960.00	6,453.36	58,129.00	977.65	36,901.67	28,658.33	65,560.00		
605(2)d	Regulatory Signs (Rectangular 450mmx750mm)	each	11.00	8.7%	90.0%	1.4%	57.3%	42.7%	6,780.00	6,459.12	67,093.56	1,027.32	42,726.44	31,853.56	74,580.00		
605(3)a	Informatory Signs (Rectangular 0.75mx1.00m, single post)	each	0.00	4.7%	94.3%	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	6.6%	92.2%	1.2%	59.0%	41.0%	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	1.00	2.2%	97.0%	0.8%	62.6%	37.4%	49,300.00	1,098.01	47,821.05	380.94	30,865.88	18,434.12	49,300.00		
605(3)d	Informatory Signs (Type C, double post)	each	1.00	1.7%	97.6%	0.7%	63.1%	36.9%	79,200.00	1,339.09	77,281.26	579.65	50,000.40	29,199.60	79,200.00		
605(3)e	Informatory Signs (Type D, double post)	each	1.00	1.5%	97.7%	0.7%	63.2%	36.8%	111,000.00	1,702.57	108,489.71	807.72	70,181.14	40,818.86	111,000.00		
605(3)f	Informatory Signs (Type E, triple post)	each	0.00	2.6%	96.5%	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	1.8%	97.5%	0.7%	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	7.9%	90.9%	1.2%	58.2%	41.8%	8,370.00	0.00	0.00	0.00	0.00	0.00	0.00		
605(4)b	Special Signs (600x880mm)	each	0.00	6.9%	91.9%	1.1%	59.0%	41.0%	9,540.00	0.00	0.00	0.00	0.00	0.00	0.00		
605(4)c	Special Signs (900x550mm)	each	0.00	7.4%	91.5%	1.2%	58.6%	41.4%	8,980.00	0.00	0.00	0.00	0.00	0.00	0.00		
605(4)d	Special Signs (850x750mm)	each	0.00	6.0%	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	28.00	4.5%	94.0%	1.5%	57.1%	42.9%	775.00	985.90	20,398.08	316.02	12,396.86	9,303.14	21,700.00		
607(2)b	Reflectorized Pavement Studs (Raised Profile Type, two faces reflective)	each	112.00	4.2%	94.3%	1.5%	57.2%	42.8%	836.00	3,944.59	88,323.84	1,363.57	53,539.73	40,092.27	93,632.00		
607(3)	Chatter Bars (one side reflective)	each	260.00	1.9%	96.6%	1.5%	58.6%	41.4%	1,830.00	9,159.73	459,711.15	6,929.13	278,598.34	197,201.66	475,800.00		
608(1)	Furnishing and Placing Top Soil for Plantation	m3	27,486.00	33.9%	17.8%	48.3%	32.1%	67.9%	210.00	1,957,601.32	1,026,685.70	2,787,772.99	1,854,254.80	3,917,805.20	5,772,060.00		
610(1)	Sodding	m2	137,429.00	43.2%	54.9%	1.9%	5.6%	94.4%	55.50	3,291,312.84	4,189,317.63	146,679.03	429,663.73	7,197,645.77	7,627,309.50		
611(1)a	Trees (Furnishing and Transplanting) Low Tree H≤1.5m	each	0.00	11.8%	82.1%	6.1%	10.1%	89.9%	268.00	0.00	0.00	0.00	0.00	0.00	0.00		

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
611(1)b	Trees (Furnishing and Transplanting) Medium Tree 1.5m<H≤3.0m	each	0.00	11.5%	83.4%	5.1%	9.5%	90.5%	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	556.00	17.3%	77.7%	5.0%	9.0%	91.0%	1,100.00	105,970.47	475,222.44	30,407.09	54,807.99	556,792.01	611,600.00	
611(2)a	Trees (Transplanting) Low Tree H≤1.5m	each	0.00	54.4%	8.1%	28.4%	20.7%	70.2%	57.90	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	57.6%	7.4%	25.9%	18.8%	72.1%	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	66.4%	5.5%	19.1%	13.9%	77.0%	287.00	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	37.4%	57.4%	5.1%	24.6%	75.4%	1,580.00	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	34.7%	60.1%	5.2%	25.7%	74.3%	3,740.00	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	48.2%	36.3%	15.5%	30.0%	70.0%	934.00	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	52.2%	32.7%	15.1%	27.0%	73.0%	388.00	0.00	0.00	0.00	0.00	0.00	0.00	
612(1)a	Reflectorized Thermoplastic Pavement Markings (White)	m2	2,478.00	4.9%	87.1%	8.0%	60.7%	39.3%	452.00	54,458.53	975,996.64	89,600.83	680,281.65	439,774.35	1,120,056.00	
612(1)b	Reflectorized Thermoplastic Pavement Markings (Yellow)	m2	141.00	4.7%	87.4%	7.8%	60.8%	39.2%	464.00	3,099.78	57,211.30	5,112.92	39,800.98	25,623.02	65,424.00	
SPL 612(2)	Removal of Existing Thermoplastic Pavement Markings	m2	0.00	95.7%	1.9%	2.4%	2.4%	97.6%	73.20	0.00	0.00	0.00	0.00	0.00	0.00	
615(1)a	Delineator (ground standing type)	each	0.00	2.4%	97.6%	0.0%	58.6%	41.4%	1,490.00	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	6.4%	92.3%	1.4%	55.4%	44.6%	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	17.9%	61.2%	20.9%	47.0%	53.0%	129.00	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	2.00	11.1%	65.4%	23.5%	53.7%	46.3%	40,300.00	8,908.53	52,715.32	18,976.15	43,254.10	37,345.90	80,600.00	
SPL 620(1)b	Traffic Signal Pole Type A (Mast Arm Post H=6.0m)	each	0.00	11.8%	65.2%	22.9%	52.9%	47.1%	42,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
SPL 620(1)c	Traffic Signal Pole Type B (φ114.3mm x 4.2m)	each	4.00	15.0%	57.0%	28.0%	48.6%	51.4%	21,200.00	12,700.02	48,376.22	23,723.76	41,246.26	43,553.74	84,800.00	
SPL 620(1)d	Traffic Signal Pole Type C (φ114.3mm x 3.4m)	each	4.00	15.7%	56.8%	27.5%	47.8%	52.2%	21,900.00	13,755.59	49,781.33	24,063.08	41,855.85	45,744.15	87,600.00	
SPL 620(1)e	Traffic Signal Pole Type D (φ114.3mm x 3.0m)	each	2.00	15.0%	56.5%	28.5%	48.7%	51.3%	19,200.00	5,769.73	21,703.69	10,926.58	18,702.82	19,697.18	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	6,140.28	564,282.32	11,577.39	318,774.13	263,225.87	582,000.00	
SPL 620(2)b	Traffic Signal Lamps Type B (3 vehicle lamps)	each	11.00	1.2%	96.4%	2.4%	54.7%	45.3%	105,000.00	13,969.66	1,113,203.97	27,826.37	631,812.98	523,187.02	1,155,000.00	
SPL 620(2)c	Traffic Signal Lamps Type C (2 pedestrian lamps)	each	6.00	1.6%	94.7%	3.7%	54.5%	45.5%	50,600.00	4,761.30	287,487.42	11,351.28	165,583.54	138,016.46	303,600.00	
SPL 620(4)a	Street Lighting Poles (single lamp)	each	2.00	10.8%	69.1%	20.1%	53.0%	47.0%	48,000.00	10,335.52	66,370.54	19,293.94	50,837.97	45,162.03	96,000.00	
SPL 620(4)b	Street Lighting Poles (double lamp)	each	24.00	9.3%	72.1%	18.6%	53.9%	46.1%	59,900.00	133,287.19	1,036,590.23	267,722.58	775,373.23	662,226.77	1,437,600.00	
SPL 620(4)c	Bridge Lighting Poles (single lamp)	each	0.00	9.0%	72.3%	18.7%	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	1.00	8.6%	80.9%	10.5%	50.3%	49.7%	49,200.00	4,240.60	39,795.83	5,163.57	24,725.81	24,474.19	49,200.00	
SPL 620(4)e	Fluorescent Lighting for Underpass Culvert	each	0.00	5.7%	92.5%	1.8%	54.1%	45.9%	924.00	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	21.5%	49.6%	28.9%	43.7%	56.3%	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	23.0%	48.6%	28.4%	42.8%	57.2%	11,200.00	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 K SPL 800	Mobilization and Demobilization	L.S.	1.00	10.2%	39.1%	50.7%	47.4%	52.6%	696,000.00	71,004.71	272,355.08	352,640.21	330,207.35	365,792.65	696,000.00	
Part X SPL 900(1)	Provisional Sum for Traffic Management during Construction	L.S.	1.00	56.7%	6.1%	37.2%	24.0%	76.0%	493,000.00	279,670.77	29,985.85	183,343.38	118,203.40	374,796.60	493,000.00	
SPL 900(2)	Provisional Sum for Relocation of Existing Utilities	L.S.	1.00	17.3%	44.5%	38.3%	48.0%	52.0%	729,000.00	125,794.87	324,317.25	278,887.88	349,958.00	379,042.00	729,000.00	

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%	301,000.00	67,199.93	31,555.19	202,244.88	140,466.67	160,533.33	301,000.00	
SPL 900(4)	Provisional Sum for Maintenance and Repair of Existing Access Road	L. S.	1.00	21.1%	16.4%	62.5%	41.1%	58.9%	128,000.00	27,031.48	20,938.63	80,029.89	52,554.64	75,445.36	128,000.00	
SPL 900(5)	Provisional Sum for Environmental Compliance Requirements	L. S.	1.00	50.2%	49.0%	0.8%	0.8%	99.2%	602,000.00	302,107.47	295,170.96	4,721.57	4,721.57	597,278.43	602,000.00	
SPL 900(6)	Provisional Sum for Health and Safety Requirements	L. S.	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	494,000.00	49,400.00	271,700.00	172,900.00	197,600.00	296,400.00	494,000.00	
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	4,463.27	181,515.21	5,021.52	119,963.12	71,036.88	191,000.00	
SPL 900(8)	Provisional Sum for Contingency	L. S.	1.00	15.0%	45.0%	40.0%	50.0%	50.0%	1,200,000.00	180,000.00	540,000.00	480,000.00	600,000.00	600,000.00	1,200,000.00	
	Total									26,836,259.19	76,399,571.99	90,916,555.42	91,164,232.68	102,988,153.92	194,152,386.60	
	Component									13.8%	39.4%	46.8%	47.0%	53.0%	100.0%	