

4. Breakdown of Direct Cost

Part A Facilities for the Engineer

A(1)a Provision of Combined Field Office/Laboratory Bldg. and Living Quarter

Unit: 1.00 L.S.

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)
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1,800.00	1.6%	8.1%	90.3%	54.3%	45.7%	2.54	73.15	370.33	4,128.52	2,481.29	2,090.71	4,572.00	
W0105	Excavation, Backhoe 0.61m3	m3	181.28	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	333.65	622.81	6,457.90	3,920.61	3,493.74	7,414.35	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	52.77	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	405.16	724.96	3,782.77	2,526.06	2,386.83	4,912.89	
W0132	Backfill B	m3	128.51	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	1,109.95	1,427.16	11,727.50	7,306.75	6,957.86	14,264.61	
W0161	Gravel Foundation Fill	m3	59.98	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	5,931.27	3,095.31	14,665.51	9,219.36	14,472.74	23,692.10	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	16.93	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	675.57	21,935.65	4,476.78	15,376.82	11,711.18	27,088.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	54.00	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	2,200.86	56,880.51	14,898.63	41,547.84	32,432.16	73,980.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	70.93	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	2,885.89	35.88	15,378.17	8,241.25	10,058.69	18,299.94	
W0237	Concrete Curing (reinforced concrete)	m3	70.93	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	227.08	23.16	54.05	42.46	261.83	304.29	
W0241	Formwork (reinforced concrete H<4m)	m2	138.16	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	18,717.74	12,398.60	245.98	908.96	30,453.36	31,362.32	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	2,584.50	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	9,321.76	46,440.62	4,714.93	32,567.34	27,909.96	60,477.30	
W3002	150mm Thick Concrete Hollow Block Wall	m2	116.00	12.7%	84.2%	3.0%	36.4%	63.6%	331.00	4,884.14	32,341.53	1,170.33	13,981.22	24,414.78	38,396.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	44.88	13.8%	82.8%	3.4%	37.4%	62.6%	306.00	1,894.74	11,376.68	461.86	5,129.90	8,603.38	13,733.28	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	21.31	7.7%	67.1%	25.1%	60.2%	39.8%	38,900.00	64,229.33	556,375.31	208,354.35	498,772.55	330,186.45	828,959.00	
W3004	Prepainted Corrugated G. I. Roofing Fabrication & Erection	m2	526.19	8.4%	79.9%	11.8%	54.3%	45.7%	159.00	6,988.16	66,816.50	9,859.55	45,441.57	38,222.64	83,664.21	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	150.27	2.5%	92.9%	4.6%	62.1%	37.9%	629.00	2,381.69	87,819.10	4,319.04	58,693.08	35,826.75	94,519.83	
W3006	Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)	m2	152.31	2.5%	92.9%	4.6%	62.1%	37.9%	625.00	2,414.50	88,403.82	4,375.42	59,125.04	36,068.71	95,193.75	
W3007	Plain Cement Floor Finish	m2	312.00	7.7%	85.4%	6.9%	54.3%	45.7%	63.20	1,523.05	16,839.33	1,356.02	10,697.37	9,021.03	19,718.40	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	204.00	8.2%	85.0%	6.9%	54.0%	46.0%	63.60	1,062.11	11,022.85	889.44	7,003.30	5,971.10	12,974.40	
W3009	Unglazed Tile Finish (8" x 8")	m2	24.00	1.7%	97.8%	0.5%	60.2%	39.8%	589.00	237.31	13,828.71	69.98	8,512.22	5,623.78	14,136.00	
W3010	Gypsum Board Ceiling	m2	336.00	1.7%	97.8%	0.5%	60.2%	39.8%	351.00	1,979.83	115,372.33	583.84	71,017.03	46,918.97	117,936.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L.S.	1.00	5.3%	90.6%	4.0%	41.3%	58.7%	355,000.00	18,952.04	321,677.95	14,370.01	146,627.84	208,372.16	355,000.00	
W3014	Lighting and Powers	L.S.	1.00	5.1%	93.4%	1.5%	56.6%	43.4%	139,000.00	7,083.42	129,872.46	2,044.12	78,653.55	60,346.45	139,000.00	
W3015	Sewer Water Line	L.S.	1.00	4.5%	94.8%	0.7%	49.7%	50.3%	115,000.00	5,192.02	109,010.95	797.03	57,207.35	57,792.65	115,000.00	
W3016	Septic Tank	each	1.00	14.6%	63.6%	21.8%	44.1%	55.9%	20,700.00	3,019.45	13,159.80	4,520.75	9,119.90	11,580.10	20,700.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	40.00	3.3%	93.2%	3.6%	49.1%	50.9%	1,850.00	2,406.85	68,961.87	2,631.28	36,305.77	37,694.23	74,000.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	130.00	5.5%	92.7%	1.7%	14.6%	85.4%	127.00	911.02	15,310.46	288.52	2,416.75	14,093.25	16,510.00	
W3019	Temporary Office Rental	month	3.00	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	0.00	0.00	54,000.00	8,100.00	45,900.00	54,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										167,041.76	1,802,144.65	390,622.27	1,240,943.17	1,118,865.50	2,359,808.67	
Components (%)										7.1%	76.4%	16.6%	52.6%	47.4%	100.0%	
Unit Rate			L.S.							167,055.30	1,802,290.76	390,653.94	1,241,043.78	1,118,956.22	2,360,000.00	

A(1)b Maintenance of Field Office/Laboratory Bldg. and Living Quarter

Unit: 1.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks		
				Component (%)					Total (PP)	Component (PP)						Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
L020	Unskilled Labor	md	122.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	39,200.00	0.00	0.00	0.00	0.00	39,200.00	39,200.00	
L020	Unskilled Labor	md	50.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	16,000.00	0.00	0.00	0.00	0.00	16,000.00	16,000.00	
L019	Skilled Labor	md	25.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	10,250.00	0.00	0.00	0.00	0.00	10,250.00	10,250.00	
L020	Unskilled Labor	md	25.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	8,000.00	0.00	0.00	0.00	0.00	8,000.00	8,000.00	
W01009	Electric Supply	kWh	2,200.00	0.0%	100.0%	0.0%	50.0%	50.0%	4.00	0.00	8,800.00	0.00	4,400.00	4,400.00	8,800.00	8,800.00	
W01010	Water Supply	m3	20.00	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	1,324.00	0.00	132.40	1,191.60	1,324.00	1,324.00	
W01020	Propane Gas	kg	25.00	0.0%	100.0%	0.0%	50.0%	50.0%	32.60	0.00	815.00	0.00	407.50	407.50	815.00	815.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	1.00	0.0%	82.9%	17.1%	34.5%	65.5%	1,040.00	0.00	862.30	177.70	358.97	681.03	1,040.00	1,040.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									73,450.00	11,801.30	177.70	5,298.87	80,130.13	85,429.00		
	Components (%)									86.0%	13.8%	0.2%	6.2%	93.8%	100.0%		
	Unit Rate	month								73,425.07	11,797.30	177.64	5,297.07	80,102.93	85,400.00		

A(1)c Provision of Furniture and Fixtures for the Field Office/Laboratory and Living Quarter

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3102	Furniture and Fixtures for Field Office	L.S.	1.00	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	493.07	328,877.23	2,629.70	114,671.09	217,328.91	332,000.00	
W3105	Furniture and Fixtures for Living Quarter	L.S.	1.00	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	322.28	214,958.91	1,718.81	69,301.41	147,698.59	217,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									815.35	543,836.14	4,348.51	183,972.49	365,027.51	549,000.00	
	Components (%)									0.1%	99.1%	0.8%	33.5%	66.5%	100.0%	
	Unit Rate	L.S.								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

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3103	Equipment and Appliances for Field Office	L.S.	1.00	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	334.16	222,883.66	1,782.18	164,316.33	60,683.67	225,000.00	
W3106	Equipment and Appliances for Living Quarter	L.S.	1.00	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	130.10	86,776.04	693.86	34,892.75	52,707.25	87,600.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									464.26	309,659.70	2,476.04	199,209.08	113,390.92	312,600.00	
	Components (%)									0.1%	99.1%	0.8%	63.7%	36.3%	100.0%	
	Unit Rate	L.S.								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

Unit: 28.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3111	Office & Living Quarter Supplies	L.S.	1.00	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	42.06	14,033.63	224.31	7,275.31	7,024.69	14,300.00	
W3112	Office & Living Quarter Consumables	month	28.00	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	1,334.12	445,150.59	7,115.29	161,419.97	292,180.03	453,600.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,376.18	459,184.22	7,339.61	168,695.28	299,204.72	467,900.00	
	Components (%)									0.3%	98.1%	1.6%	36.1%	63.9%	100.0%	
	Unit Rate	month								49.12	16,388.92	261.96	6,020.97	10,679.03	16,700.00	

A(1)f Provide/Operate/Maintain Communication Equipment

Unit: 28.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Office Telephone	set	1.00	0.0%	100.0%	0.0%	80.0%	20.0%	1,000.00	0.00	1,000.00	0.00	800.00	200.00	1,000.00	
	Facsimile Machine	set	1.00	0.0%	100.0%	0.0%	80.0%	20.0%	27,000.00	0.00	27,000.00	0.00	21,600.00	5,400.00	27,000.00	
	Radio System (1 base + 4 portable receiver)	set	1.00	0.0%	100.0%	0.0%	80.0%	20.0%	41,000.00	0.00	41,000.00	0.00	32,800.00	8,200.00	41,000.00	
L012	Electrician	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	429.00	0.00	0.00	0.00	429.00	429.00	
W01015	Telecommunication Fare	min	84,000.00	0.0%	100.0%	0.0%	45.0%	55.0%	1.00	0.00	84,000.00	0.00	37,800.00	46,200.00	84,000.00	
	Miscellaneous	LS	1.00	5.0%	55.0%	40.0%	55.0%	45.0%		76.71	843.86	613.72	843.86	690.43	1,534.29	1.0%
	Total									505.71	152,843.86	613.72	93,843.86	61,119.43	154,963.29	
	Components (%)									0.3%	99.3%	0.4%	60.6%	39.4%	100.0%	
	Unit Rate	month								18.05	5,490.05	21.90	3,348.90	2,181.10	5,530.00	

Miscellaneous covers the costs for cables & wires, maintenance, etc.

A(2)a Provision of vehicles (sedan) for the Engineer (Rental including operation & maintenance)

Unit: 1.00 veh-m

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)
L004 M01006	Mazda B2200 double cab (diesel)	month	1.00	0.0%	0.0%	100.0%	85.0%	15.0%	52,800.00	0.00	0.00	52,800.00	44,880.00	7,920.00	52,800.00	
	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	375.00	12,892.50	0.00	0.00	0.00	12,892.50	12,892.50	
	Gasoline	ltr	375.00	0.0%	100.0%	0.0%	65.0%	35.0%	14.20	0.00	5,325.00	0.00	3,461.25	1,863.75	5,325.00	
	Miscellaneous	LS	1.00	10.0%	55.0%	35.0%	55.0%	45.0%		71.02	390.60	248.56	319.58	319.58	710.18	
Total										12,963.52	5,715.60	53,048.56	48,731.85	22,995.83	71,727.68	
Components (%)										18.1%	8.0%	74.0%	67.9%	32.1%	100.0%	
Unit Rate			veh-m							12,958.52	5,713.39	53,028.09	48,713.04	22,986.96	71,700.00	

Miscellaneous covers the cost for ancillaries, maintenance expense, extra overtime, etc.
Bare Monthly Rental Cost = 52,800.00 PP/month

A(2)b Provision of vehicles (wagon) for the Engineer (Rental including operation & maintenance)

Unit: 1.00 veh-m

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)
L004 M01006	Nissan Pathfinder, 4x4	month	1.00	0.0%	0.0%	100.0%	85.0%	15.0%	67,800.00	0.00	0.00	67,800.00	57,630.00	10,170.00	67,800.00	
	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	375.00	12,892.50	0.00	0.00	0.00	12,892.50	12,892.50	
	Gasoline	ltr	375.00	0.0%	100.0%	0.0%	65.0%	35.0%	14.20	0.00	5,325.00	0.00	3,461.25	1,863.75	5,325.00	
	Miscellaneous	LS	1.00	10.0%	55.0%	35.0%	55.0%	45.0%		86.02	473.10	301.06	473.10	387.08	860.18	
Total										12,978.52	5,798.10	68,101.06	61,564.35	25,313.33	86,877.68	
Components (%)										14.9%	6.7%	78.4%	70.9%	29.1%	100.0%	
Unit Rate			veh-m							12,981.85	5,799.59	68,118.56	61,580.17	25,319.83	86,900.00	

Miscellaneous covers the cost for ancillaries, maintenance expense, extra overtime, etc.
Bare Monthly Rental Cost = 67,800.00 PP/month

A(2)c Provision of vehicles (pick-up) for the Engineer (Rental including operation & maintenance)

Unit: 1.00 veh-m

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)
L004 M01006	Isuzu Pickup 2 door	month	1.00	0.0%	0.0%	100.0%	85.0%	15.0%	31,550.00	0.00	0.00	31,550.00	26,817.50	4,732.50	31,550.00	
	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	375.00	12,892.50	0.00	0.00	0.00	12,892.50	12,892.50	
	Gasoline	ltr	375.00	0.0%	100.0%	0.0%	65.0%	35.0%	14.20	0.00	5,325.00	0.00	3,461.25	1,863.75	5,325.00	
	Miscellaneous	LS	1.00	10.0%	55.0%	35.0%	55.0%	45.0%		49.77	273.72	174.19	273.72	223.95	497.68	
Total										12,942.27	5,598.72	31,724.19	30,552.47	19,712.70	50,265.18	
Components (%)										25.7%	11.1%	63.1%	60.8%	39.2%	100.0%	
Unit Rate			veh-m							12,951.23	5,602.60	31,746.17	30,573.64	19,726.36	50,300.00	

Miscellaneous covers the cost for ancillaries, maintenance expense, extra overtime, etc.
Bare Monthly Rental Cost = 31,550.00 PP/month

A(3) Provision of Testing Equipment, Apparatus and Publications

Unit: 1.00 L.S.

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)
	Testing equipment & apparatus for soil & aggregates	L.S.	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	318,000.00	0.00	318,000.00	0.00	222,600.00	95,400.00	318,000.00	
	Testing equipment & apparatus for concrete	L.S.	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	447,000.00	0.00	447,000.00	0.00	335,250.00	111,750.00	447,000.00	
	Testing equipment & apparatus for bituminous materials	L.S.	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	250,000.00	0.00	250,000.00	0.00	175,000.00	75,000.00	250,000.00	
	Publication	L.S.	1.00	0.0%	100.0%	0.0%	100.0%	0.0%	20,700.00	0.00	20,700.00	0.00	20,700.00	0.00	20,700.00	
	Miscellaneous	LS	1.00	15.0%	15.0%	70.0%	45.0%	55.0%		776.78	776.78	3,624.95	2,330.33	2,848.18	5,178.50	
Total										776.78	1,036,476.78	3,624.95	755,880.33	284,998.18	1,040,878.50	
Components (%)										0.1%	99.6%	0.3%	72.6%	27.4%	100.0%	
Unit Rate			L.S.							776.12	1,035,601.99	3,621.89	755,242.36	284,757.64	1,040,000.00	

Miscellaneous covers the costs for delivery, installation, etc.

A(4) Progress Photographs

Unit: 100.00 each

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)
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00		
M15101	Film ASA 400 x 36	each	11.11	0.0%	100.0%	0.0%	70.0%	30.0%	169.00	0.00	1,877.59	0.00	1,314.31	563.28	1,877.59	Loss 300.0%
M15102	Film Development	each	11.11	0.0%	100.0%	0.0%	15.0%	85.0%	45.00	0.00	499.95	0.00	74.99	424.96	499.95	Loss 300.0%
M15103	Picture Prints	each	1,400.00	0.0%	100.0%	0.0%	15.0%	85.0%	6.00	0.00	8,400.00	0.00	1,260.00	7,140.00	8,400.00	Loss 300.0%
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	55.0%	45.0%		0.00	503.44	55.94	307.66	251.72	559.38	5.00
	Total									410.00	11,280.98	55.94	2,956.96	8,789.95	11,746.92	
	Components (%)									3.5%	96.0%	0.5%	25.2%	74.8%	100.0%	
	Unit Rate	each								4.08	112.36	0.56	29.45	87.55	117.00	

Miscellaneous covers the cost for album, glue, scissors, etc.
Number of copies to be submitted = 10

Part C Earthwork

100(1) Clearing and Grubbing

Unit: 1.00 ha

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)
W0001	Grass Cutting	m2	10,000.00	90.9%	0.9%	8.2%	4.5%	95.5%	1.11	10,090.91	100.91	908.18	504.55	10,595.45	11,100.00	
W0002	Tree Cutting	m2	1,000.00	92.6%	0.7%	6.7%	3.7%	96.3%	0.93	860.19	6.88	61.93	34.41	894.59	929.00	
W0003	Grubbing	m2	1,000.00	4.0%	7.9%	88.0%	53.0%	47.0%	24.90	1,006.83	1,975.19	21,917.98	13,207.24	11,692.76	24,900.00	
W0004	Burning	m2	1,000.00	100.0%	0.0%	0.0%	0.0%	100.0%	1.94	1,940.00	0.00	0.00	0.00	1,940.00	1,940.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									13,897.93	2,082.98	22,888.09	13,746.19	25,122.81	38,869.00	
	Components (%)									35.8%	5.4%	58.9%	35.4%	64.6%	100.0%	
	Unit Rate	ha								13,909.01	2,084.64	22,906.35	13,757.16	25,142.84	38,900.00	

100(3) Individual Removal of Trees, small (150mm ≤ φ < 900mm)

Unit: 30.00 each

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)
L002	Foreman	md	0.88	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	506.88	0.00	0.00	0.00	506.88	506.88	
L019	Skilled Labor	md	1.65	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	676.50	0.00	0.00	0.00	676.50	676.50	
L020	Unskilled Labor	md	3.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,043.20	0.00	0.00	0.00	1,043.20	1,043.20	
L020	Unskilled Labor	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	262.40	0.00	0.00	0.00	262.40	262.40	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	19.91	179.21	109.52	89.60	199.12	8.0%
	Total									2,488.98	19.91	179.21	109.52	2,578.58	2,688.10	
	Components (%)									92.6%	0.7%	179.21	109.52	2,578.58	100.0%	
	Unit Rate	each								82.96	0.66	5.97	3.65	85.95	89.60	

Miscellaneous covers the cost for chain saw, ax, etc.

100(4) Individual Removal of Trees, large (φ > 900mm)

Unit: 25.00 each

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)
L002	Foreman	md	1.01	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	581.76	0.00	0.00	0.00	581.76	581.76	
L019	Skilled Labor	md	2.13	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	873.30	0.00	0.00	0.00	873.30	873.30	
L020	Unskilled Labor	md	3.53	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,129.60	0.00	0.00	0.00	1,129.60	1,129.60	
L020	Unskilled Labor	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	262.40	0.00	0.00	0.00	262.40	262.40	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	22.78	204.99	125.27	102.49	227.76	8.0%
	Total									2,847.06	22.78	204.99	125.27	2,949.55	3,074.82	
	Components (%)									92.6%	0.7%	6.7%	4.1%	95.9%	100.0%	
	Unit Rate	each								113.89	0.91	8.20	5.01	117.99	123.00	

Miscellaneous covers the cost for chain saw, ax, etc.

101(1) Removal of Structures and Obstructions

Unit: 1.00 L.S.

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)
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	77.8	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	5,754.44	3,083.13	39,787.44	23,626.81	24,998.19	48,625.00	
W0025	Disposal of Demolished Debris	m3	77.8	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	1,769.24	1,382.00	7,585.16	5,019.53	5,716.87	10,736.40	
	Miscellaneous	LS	1.0	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	890.42	5,045.72	3,264.88	2,671.26	5,936.14	10.0%
	Total									7,523.67	5,355.55	52,418.32	31,912.22	33,386.32	65,297.54	
	Components (%)									11.5%	8.2%	80.3%	48.9%	51.1%	100.0%	
	Unit Rate	L.S.								7,523.96	5,355.75	52,420.29	31,912.42	33,387.58	65,300.00	

Miscellaneous covers the cost for earthworks, clearing, etc.

101(2)a Removal of Existing Pedestrian Bridge (San Jose, at Bridge No.2)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	44.80	12.7%	7.5%	79.8%	48.1%	51.9%	1,280.00	7,299.05	4,310.65	45,734.31	27,578.90	29,765.10	57,344.00	
W0025	Disposal of Demolished Debris	m3	44.80	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	1,018.79	795.80	4,367.80	2,890.42	3,291.98	6,182.40	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	476.45	2,699.87	1,746.98	1,429.34	3,176.32	5.0%
	Total									8,317.84	5,582.90	52,801.98	32,216.30	34,486.42	66,702.72	
	Components (%)									12.5%	8.4%	79.2%	48.3%	51.7%	100.0%	
	Unit Rate	each								8,317.50	5,582.67	52,799.83	32,214.98	34,485.02	66,700.00	

Miscellaneous covers the cost for clearing, extra earthworks, etc.

101(2)b Removal of Existing Bridge (Plaridel at Bridge No.9)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	68.25	12.7%	7.5%	79.8%	48.1%	51.9%	1,280.00	11,119.64	6,567.00	69,673.36	42,014.73	45,345.27	87,360.00	
W0025	Disposal of Demolished Debris	m3	68.25	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	1,552.06	1,212.36	6,654.08	4,403.38	5,015.12	9,418.50	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	725.84	4,113.09	2,661.41	2,177.52	4,838.93	5.0%
	Total									12,671.70	8,505.20	80,440.52	49,079.52	52,537.91	101,617.43	
	Components (%)									12.5%	8.4%	79.2%	48.3%	51.7%	100.0%	
	Unit Rate	each								12,719.41	8,537.22	80,743.37	49,264.29	52,735.71	102,000.00	

Miscellaneous covers the cost for clearing, extra earthworks, etc.

101(3)a Removal of Existing PCC Pavement

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	10.00	3.5%	6.5%	90.1%	53.2%	46.8%	56.50	19.59	36.57	508.84	300.59	264.41	565.00	
W0025	Disposal of Demolished Debris	m3	2.50	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	56.85	44.41	243.74	161.30	183.70	345.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									76.44	80.98	752.57	461.89	448.11	910.00	
	Components (%)									8.4%	8.9%	82.7%	50.8%	49.2%	100.0%	
	Unit Rate	m2								7.64	8.10	75.26	46.19	44.81	91.00	

101(3)b Removal of Existing Gravel Pavement

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0016	Excavation of Gravel Pavement	m3	2.50	4.5%	8.4%	87.1%	52.9%	47.1%	10.30	1.16	2.16	22.43	13.62	12.13	25.75	
W0025	Disposal of Demolished Debris	m3	2.50	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	56.85	44.41	243.74	161.30	183.70	345.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									58.01	46.57	266.17	174.91	195.84	370.75	
	Components (%)									15.0%	12.6%	71.8%	47.2%	52.8%	100.0%	
	Unit Rate	m2								5.81	4.66	26.63	17.50	19.60	37.10	

101(4)a Removal of Existing Fence (Net Fence with Barbed Wire and Wooden Posts)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	480.00	0.00	0.00	0.00	480.00	480.00	
W0025	Disposal of Demolished Debris	m3	4.32	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	98.24	76.74	421.18	278.72	317.44	596.16	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	1.0%
	Total									1,375.24	76.74	421.18	278.72	1,594.44	1,891.89	
	Components (%)									72.7%	4.1%	22.3%	14.7%	84.3%	100.0%	
	Unit Rate	m								13.74	0.77	4.21	2.78	15.93	18.90	

Miscellaneous covers the cost for wire cutter, acetylene gas, etc.

101(4)b Removal of Existing Fence (Net Fence with Barbed Wire and Concrete Posts)

Unit: 100.00 m

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)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	480.00	0.00	0.00	0.00	480.00	480.00	
R0204-020	Pneumatic Breaker, Handhold	day	0.09	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	41.13	22.33	18.80	41.13	
W0025	Disposal of Demolished Debris	m3	5.76	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	130.99	102.32	561.57	371.63	423.25	794.88	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	4.23	16.90	11.62	9.51	21.13	1.0%
	Total									1,407.99	106.54	619.61	405.58	1,728.56	2,134.14	
	Components (%)									66.0%	5.0%	29.0%	19.0%	81.0%	100.0%	
	Unit Rate	m								14.05	1.06	6.18	4.05	17.25	21.30	

Miscellaneous covers the cost for wire cutter, acetylene gas, etc.

101(4)c Removal of Existing Fence (Concrete Hollow Block)

Unit: 100.00 m

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)
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	748.80	0.00	0.00	0.00	748.80	748.80	
L019	Skilled Labor	md	4.86	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,992.60	0.00	0.00	0.00	1,992.60	1,992.60	
L020	Unskilled Labor	md	3.32	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,062.40	0.00	0.00	0.00	1,062.40	1,062.40	
R0204-020	Pneumatic Breaker, Handhold	day	3.40	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	1,553.80	843.61	710.19	1,553.80	
W0025	Disposal of Demolished Debris	m3	27.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	614.00	479.61	2,632.38	1,742.00	1,984.00	3,726.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,417.80	479.61	4,186.18	2,585.61	6,497.99	9,083.60	
	Components (%)									48.6%	5.3%	46.1%	28.5%	71.5%	100.0%	
	Unit Rate	m								44.16	4.79	41.85	25.85	64.95	90.80	

101(5)a Removal of Existing Guardrails

Unit: 100.00 m

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)
L020	Unskilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,784.00	0.00	0.00	0.00	2,784.00	2,784.00	
R0601-006	Dump Truck, 5.0-9.0 cu-yds (4.6-6.9m3)	hr	2.25	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	137.26	243.26	978.48	688.93	670.07	1,359.00	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	16.57	66.29	45.57	37.29	82.86	2.0%
	Total									2,921.26	259.83	1,044.77	734.50	3,491.36	4,225.86	
	Components (%)									69.1%	6.1%	24.7%	17.4%	82.6%	100.0%	
	Unit Rate	m								29.24	2.60	10.46	7.35	34.95	42.30	

Miscellaneous covers the cost for minor tools such as hammer, shovels, carts, etc.

101(5)b Relocation of Existing Guardrails

Unit: 100.00 m

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)
L020	Unskilled Labor	md	37.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	12,064.00	0.00	0.00	0.00	12,064.00	12,064.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	361.92	241.28	331.76	271.44	603.20	5.0%
	Total									12,064.00	361.92	241.28	331.76	12,335.44	12,667.20	
	Components (%)									95.2%	2.9%	1.9%	2.6%	97.4%	100.0%	
	Unit Rate	m								120.95	3.63	2.42	3.33	123.67	127.00	

Miscellaneous covers the cost for missing fixtures, minor tools such as hammer, shovels, carts, etc.

101(7) Removal of Existing Slope Protection

Unit: 10.00 m3

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)
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	10.00	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	739.64	396.29	5,114.07	3,036.87	3,213.13	6,250.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	227.41	177.63	974.96	645.18	734.82	1,380.00	
	Miscellaneous	LS	1.00	5.0%	10.0%	85.0%	55.0%	45.0%		3.82	7.63	64.86	41.97	34.34	76.30	1.0%
	Total									970.87	581.55	6,153.88	3,724.01	3,982.29	7,706.30	
	Components (%)									12.6%	7.5%	79.9%	48.3%	51.7%	100.0%	
	Unit Rate	m3								97.13	58.18	615.68	372.58	398.42	771.00	

Miscellaneous covers the cost for earthworks, clearing, etc. as required.

101(8) Removal of Existing Slope Protection (Hand-laid Rock)

Unit: 10.00 m3

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		
W0105	Excavation, Backhoe 0.61m3	m3	10.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	18.41	34.36	356.24	216.27	192.73	409.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	227.41	177.63	974.96	645.18	734.82	1,380.00	
	Miscellaneous	LS	1.00	6.0%	10.0%	85.0%	55.0%	45.0%		0.89	1.79	15.21	9.84	8.05	17.89	1.0%
	Total									246.71	213.78	1,346.40	871.30	935.59	1,806.89	
	Components (%)									13.7%	11.8%	74.5%	48.2%	51.8%	100.0%	
	Unit Rate	m3								24.71	21.41	134.87	87.28	93.72	181.00	

Miscellaneous covers the cost for earthworks, clearing, etc. as required.

101(9) Removal of Existing Gabion

Unit: 10.00 m3

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		
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
W0105	Excavation, Backhoe 0.61m3	m3	10.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	18.41	34.36	356.24	216.27	192.73	409.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	227.41	177.63	974.96	645.18	734.82	1,380.00	
	Miscellaneous	LS	1.00	0	0	1	1	0		0.96	1.92	16.29	10.54	8.63	19.17	1.0%
	Total									374.77	213.91	1,347.49	872.00	1,064.17	1,936.17	
	Components (%)									19.4%	11.0%	69.6%	45.0%	55.0%	100.0%	
	Unit Rate	m3								37.55	21.43	135.02	87.37	106.63	194.00	

Miscellaneous covers the cost for earthworks, clearing, etc. as required.

SPL 101(10)a Relocation of Existing Transmission Line

Unit: 1.00 L.S.

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		
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	9.00	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	665.68	356.66	4,602.66	2,733.18	2,891.82	5,625.00	
W0025	Disposal of Demolished Debris	m3	9.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	204.67	159.87	877.46	580.67	661.33	1,242.00	
W0105	Excavation, Backhoe 0.61m3	m3	525.46	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	967.11	1,805.27	18,718.93	11,364.32	10,126.99	21,491.31	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	278.45	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	2,137.90	3,825.39	19,960.41	13,329.16	12,594.54	25,923.70	
W0132	Backfill B	m3	247.01	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	2,133.45	2,743.15	22,541.51	14,044.35	13,373.76	27,418.11	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	13.72	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	546.14	16,132.42	3,627.04	11,474.07	8,831.53	20,305.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.45	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	548.87	5.64	2,323.78	1,245.48	1,632.82	2,878.30	
W0236	Concrete Curing (plain concrete)	m3	13.45	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	86.04	10.58	24.69	19.40	101.92	121.32	
W0243	Formwork (lean concrete)	m2	6.56	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	418.00	577.81	7.87	38.14	965.54	1,003.68	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	284.07	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	11,335.50	368,060.27	75,116.23	258,009.02	196,502.98	454,512.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	278.50	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	11,331.17	140.89	60,380.95	32,358.49	39,494.51	71,853.00	
W0237	Concrete Curing (reinforced concrete)	m3	278.50	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	891.62	90.95	212.21	166.73	1,028.04	1,194.77	
W0241	Formwork (reinforced concrete K4m)	m2	188.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	25,470.00	16,871.29	334.71	1,236.85	41,439.15	42,676.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	33,420.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	120,205.56	635,856.27	62,728.17	444,941.27	373,848.73	818,790.00	
L002	Foreman	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,728.00	0.00	0.00	0.00	1,728.00	1,728.00	
L009	Welder	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	2,545.00	0.00	0.00	0.00	2,545.00	2,545.00	
L012	Electrician	md	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	4,290.00	0.00	0.00	0.00	4,290.00	4,290.00	
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,050.00	0.00	0.00	0.00	2,050.00	2,050.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00	
W02015	Structural Steel (Plates, SS400)	kg	50,246.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,014,969.20	0.00	710,478.44	304,490.76	1,014,969.20	
M13051	Electric Cable	m	12,960.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	807,408.00	0.00	444,074.40	363,333.60	807,408.00	
R0604-020	Trailer 20t	hr	3.14	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	204.51	561.09	4,478.21	2,795.27	2,448.53	5,243.80	
R0901-025	Welding Machine 250A	day	5.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.58	2,940.00	
R1001-200	Generator 151-200 kW	day	5.00	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	12,566.40	13,833.60	15,687.09	10,712.91	26,400.00	
R0402-060	Truck Crane, Hydraulic 51-60t	hr	17.13	3.0%	5.1%	91.9%	53.1%	46.9%	2,510.00	1,289.89	2,192.81	39,513.60	22,848.31	20,147.99	42,996.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	6.28	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	383.11	678.97	2,731.05	1,922.88	1,870.24	3,793.12	
	Miscellaneous	LS	1.00	10.0%	40.0%	50.0%	55.0%	45.0%		102,329.95	409,319.79	511,649.73	562,814.70	460,484.76	1,023,299.46	30.0%
	Total									293,362.16	3,295,502.83	845,432.68	2,553,884.65	1,880,413.02	4,434,297.67	
	Components (%)									6.6%	74.3%	57.6%	19.1%	42.4%	100.0%	
	Unit Rate	L.S.								293,077.83	3,292,308.86	844,613.30	2,551,409.45	1,878,590.55	4,430,000.00	

Miscellaneous covers the costs for ancillary electric instruments and fixtures, overhead of the electric company, arrangement expense, minor tools, etc.

SPL 101(10)b Shutdown Charge for the Relocation of Transmission Line

Unit: 1.00 day

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		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L012	Electrician	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	858.00	0.00	0.00	0.00	858.00	858.00	
M01009	Electric Supply	kWh	500,000.00	0.0%	100.0%	0.0%	50.0%	50.0%	4.00	0.00	2,000,000.00	0.00	1,000,000.00	1,000,000.00	2,000,000.00	
	Miscellaneous	LS	1.00	15.0%	60.0%	25.0%	30.0%	70.0%		6,004.30	24,017.21	10,007.17	12,008.60	28,020.08	40,028.68	2.0%
Total										7,438.30	2,024,017.21	10,007.17	1,012,008.60	1,029,454.08	2,041,462.68	
Components (%)										0.4%	99.1%	0.5%	49.6%	50.4%	100.0%	
Unit Rate			day							7,432.97	2,022,567.03	10,000.00	1,011,263.51	1,028,716.49	2,040,000.00	

Miscellaneous covers the cost for maintenance expense, compensation, etc.
 Average daily consumption per household = 100.00 kWh/day
 Affected number of household = 5,000 household

101(11) Removal of Existing Combination Concrete Curb & Cutter/Side Strip

Unit: 100.00 m

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	13.55	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	3,358.45	1,771.63	7,010.72	4,944.62	7,196.18	12,140.80	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13.55	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	104.04	186.15	971.32	648.63	612.88	1,261.51	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		13.40	40.21	80.41	67.01	67.01	134.02	1.0%
Total										3,475.89	1,997.99	8,062.46	5,660.26	7,876.08	13,536.33	
Components (%)										25.7%	14.8%	59.6%	41.8%	58.2%	100.0%	
Unit Rate			m							34.67	19.93	80.41	56.45	78.55	135.00	

Miscellaneous covers the costs for recovering, recompaction, etc. of the disturbed base course, cart, shovels, minor tools, etc.

101(12) Relocation of Existing Road Signs

Unit: 10.00 each

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		
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	197.98	52.39	543.19	329.77	463.78	793.55	
W0133	Backfill C	m3	13.27	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	223.68	227.25	1,473.21	948.89	975.26	1,924.15	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.26	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	312.30	164.74	651.92	459.79	669.17	1,128.96	
L002	Foreman	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	144.00	0.00	0.00	0.00	144.00	144.00	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	197.98	52.39	543.19	329.77	463.78	793.55	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1.26	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	9.67	17.31	90.32	60.32	56.99	117.31	
W0133	Backfill C	m3	12.01	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	202.45	205.67	1,333.33	858.79	882.66	1,741.45	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.26	2.5%	81.0%	16.5%	56.6%	43.2%	1,600.00	50.28	1,632.54	333.18	1,144.41	871.59	2,016.00	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,539.73	3,477.30	4,990.42	4,213.94	8,793.51	13,007.45	
Components (%)										34.9%	26.7%	38.4%	32.4%	67.6%	100.0%	
Unit Rate			each							453.71	347.53	498.76	421.15	878.85	1,300.00	

101(13) Removal of Existing Road Signs

Unit: 10.00 each

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		
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	197.98	52.39	543.19	329.77	463.78	793.55	
W0133	Backfill C	m3	13.27	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	223.68	227.25	1,473.21	948.89	975.26	1,924.15	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.26	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	312.30	164.74	651.92	459.79	669.17	1,128.96	
L002	Foreman	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	144.00	0.00	0.00	0.00	144.00	144.00	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,117.96	444.38	2,668.32	1,738.45	2,492.21	4,230.66	
Components (%)										26.4%	10.5%	63.1%	41.1%	58.9%	100.0%	
Unit Rate			each							111.78	44.43	266.79	173.82	249.18	423.00	

101(14) Removal of Existing Concrete Revetment

Unit: 1.00 L.S.

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		
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	75.00	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	5,547.34	2,972.16	38,355.50	22,776.49	24,098.51	46,875.00	
W0025	Disposal of Demolished Debris	m3	75.00	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	1,705.56	1,332.26	7,312.17	4,838.88	5,511.12	10,350.00	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	858.38	4,864.13	3,147.38	2,575.13	5,722.50	10.0%
Total										7,252.90	5,162.80	50,531.80	30,762.74	32,184.76	62,947.50	
Components (%)										11.5%	8.2%	60.3%	48.9%	51.1%	100.0%	
Unit Rate			L.S.							7,247.43	5,158.91	50,493.67	30,739.53	32,160.47	62,900.00	

Miscellaneous covers the cost for earthworks, clearing, etc.

102(1) Unsuitable Excavation

Unit: 100.00 m3

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		
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	40.60	205.55	2,291.45	1,377.19	1,160.41	2,537.60	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	258.70	2,682.51	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.45	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	698.50	1,237.93	4,979.38	3,505.89	3,409.91	6,915.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										877.69	1,702.18	9,953.33	6,511.64	6,021.56	12,533.20	
Components (%)										7.0%	13.6%	79.4%	52.0%	48.0%	100.0%	
Unit Rate			m3							8.75	16.98	99.27	64.94	60.06	125.00	

$Q = 60 \cdot q \cdot f \cdot E / C_m$ (Bulldozer)
 Q : Excavation capacity per hour = 164.04 m3/hr
 q : Standard capacity per cycle = 2.81 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $0.027 \cdot L + 0.79$ = 0.93 min
 L : Average pushing distance = 5.00 m
 $Q = q \cdot f \cdot E / C_m$ (Dump Truck)
 Q : Transportation Volume per hour = 8.73 m3/hr
 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $A + 2 \cdot L / V$ = 0.67 hr
 V : Vehicle speed = 25.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km
 $Q = 3600 \cdot q \cdot f \cdot E / C_m$ (Backhoe)
 Q : Excavation Volume per hour = 56.64 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 C_m : Cycle Time = 30.00 sec

102(2) Surplus Common Excavation

Unit: 100.00 m3

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		
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	40.60	205.55	2,291.45	1,377.19	1,160.41	2,537.60	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	258.70	2,682.51	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.45	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	698.50	1,237.93	4,979.38	3,505.89	3,409.91	6,915.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										877.69	1,702.18	9,953.33	6,511.64	6,021.56	12,533.20	
Components (%)										7.0%	13.6%	79.4%	52.0%	48.0%	100.0%	
Unit Rate			m3							8.75	16.98	99.27	64.94	60.06	125.00	

$Q = 60 \cdot q \cdot f \cdot E / C_m$ (Bulldozer)
 Q : Excavation capacity per hour = 164.04 m3/hr
 q : Standard capacity per cycle = 2.81 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $0.027 \cdot L + 0.79$ = 0.93 min
 L : Average pushing distance = 5.00 m
 $Q = q \cdot f \cdot E / C_m$ (Dump Truck)
 Q : Transportation Volume per hour = 8.73 m3/hr
 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $A + 2 \cdot L / V$ = 0.67 hr
 V : Vehicle speed = 25.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km
 $Q = 3600 \cdot q \cdot f \cdot E / C_m$ (Backhoe Loading)
 Q : Excavation Volume per hour = 56.64 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 C_m : Cycle Time = 30.00 sec

103(1) Structure Excavation

Unit: 100.00 m3

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		
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	184.05	343.56	3,562.39	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	31.90	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	244.92	438.25	2,286.72	1,527.03	1,442.86	2,969.89	
W0132	Backfill B	m3	68.10	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	588.19	756.28	6,214.63	3,687.99	3,687.11	7,559.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,017.16	1,538.09	12,063.74	7,561.75	7,057.24	14,618.99	
	Components (%)									7.0%	10.5%	82.5%	51.7%	48.3%	100.0%	
	Unit Rate	m3								10.16	15.36	120.48	75.52	70.48	146.00	

103(2)a Bridge Excavation above OWL (Common Soil)

Unit: 100.00 m3

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		
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	184.05	343.56	3,562.39	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	33.60	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	257.98	461.60	2,408.58	1,608.40	1,519.76	3,128.16	
W0132	Backfill B	m3	66.40	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	573.50	737.40	6,059.50	3,775.33	3,595.07	7,370.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,015.53	1,542.56	12,030.47	7,546.47	7,042.09	14,588.56	
	Components (%)									7.0%	10.6%	82.5%	51.7%	48.3%	100.0%	
	Unit Rate	m3								10.16	15.44	120.40	75.52	70.48	146.00	

103(2)b Bridge Excavation above OWL (Rocky Soil)

Unit: 100.00 m3

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		
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	100.00	3.5%	6.5%	90.1%	53.2%	46.8%	185.00	641.52	1,197.50	16,660.98	9,842.39	8,657.61	18,500.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	100.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	767.79	1,373.82	7,168.40	4,786.91	4,523.09	9,310.00	
W0132	Backfill B	m3	0.00	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,409.31	2,571.32	23,829.38	14,629.30	13,180.70	27,810.00	
	Components (%)									5.1%	9.2%	85.7%	52.6%	47.4%	100.0%	
	Unit Rate	m3								14.09	25.70	238.21	146.24	131.76	278.00	

103(2)c Bridge Excavation below OWL (Common Soil)

Unit: 100.00 m3

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		
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	123.90	10.4%	13.5%	76.1%	49.9%	50.1%	200.00	2,573.80	3,337.25	18,868.95	12,355.61	12,424.39	24,780.00	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	123.90	10.4%	13.5%	76.2%	49.9%	50.1%	169.00	2,172.88	2,818.11	15,948.10	10,441.32	10,497.78	20,939.10	
W0411	Temporary Struts & Supports Installation	t	1.98	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	943.14	261.17	1,567.68	1,015.96	1,756.04	2,772.00	
W0412	Temporary Struts & Supports Removal	t	1.98	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	588.36	150.11	910.87	585.66	1,063.68	1,649.34	
W05031	Temporary Sheet Pile Depreciation	t-d	520.20	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	17,322.66	0.00	8,661.33	8,661.33	17,322.66	
W05041	Temporary Steel Shapes Depreciation	t-d	55.60	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	1,740.28	0.00	870.14	870.14	1,740.28	
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	184.05	343.56	3,562.39	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	23.30	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	178.89	320.10	1,670.24	1,115.35	1,053.88	2,169.23	
W0132	Backfill B	m3	76.70	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	662.46	851.79	6,999.45	4,152.74	4,152.74	8,513.70	
W0431	Temporary Drain Pump Installation & Removal	set	0.72	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	975.86	148.19	963.95	620.11	1,467.89	2,088.00	
W0432	Temporary Drain Pump Operation	day	20.10	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	1,980.90	4,956.47	16,981.64	12,263.02	11,655.98	23,919.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									10,260.35	32,249.70	67,473.25	54,452.22	55,531.09	109,983.31	
	Components (%)									9.3%	29.3%	61.3%	49.5%	50.5%	100.0%	
	Unit Rate	m3								102.62	322.55	674.84	544.60	555.40	1,100.00	

103(2)d Bridge Excavation below OWL (Rocky Soil)

Unit: 100.00 m3

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		
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	123.90	10.4%	13.5%	76.1%	49.9%	50.1%	256.00	3,296.63	4,273.86	24,147.91	15,814.27	15,904.13	31,718.40	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	123.90	10.4%	13.5%	76.2%	49.9%	50.1%	169.00	2,172.85	2,818.11	15,948.10	10,441.32	10,497.78	20,939.10	
W0411	Temporary Struts & Supports Installation	t	1.98	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	943.14	261.17	1,567.68	1,015.96	1,756.04	2,772.00	
W0412	Temporary Struts & Supports Removal	t	1.98	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	588.36	150.11	910.87	585.66	1,063.68	1,649.34	
W05031	Temporary Sheet Pile Depreciation	t-d	520.20	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	17,322.66	0.00	8,661.33	8,661.33	17,322.66	
W05041	Temporary Steel Shapes Depreciation	t-d	55.60	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	1,740.28	0.00	870.14	870.14	1,740.28	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	100.00	3.5%	6.5%	90.1%	53.2%	46.8%	185.00	641.52	1,197.50	16,660.98	9,842.39	8,657.61	18,500.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	100.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	767.79	1,373.82	7,168.40	4,786.91	4,523.09	9,310.00	
W0132	Backfill B	m3	0.00	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0431	Temporary Drain Pump Installation & Removal	set	0.72	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	975.86	148.19	963.95	620.11	1,467.89	2,088.00	
W0432	Temporary Drain Pump Operation	day	20.10	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	1,980.90	4,956.47	16,981.64	12,263.02	11,655.98	23,919.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										11,367.08	34,242.18	84,349.52	64,901.12	65,057.66	129,958.78	
Components (%)										8.7%	26.3%	64.9%	49.9%	50.1%	100.0%	
Unit Rate			m3							113.71	342.53	843.76	649.22	650.78	1,300.00	

103(3)a Gravel Foundation Fill

Unit: 10.00 m3

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		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	288.86	486.79	2,356.35	1,472.28	1,659.72	3,132.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	22.99	91.94	63.21	51.72	114.93	3.0%
Total										987.86	509.78	2,448.29	1,535.49	2,410.44	3,945.93	
Components (%)										25.0%	12.9%	62.0%	38.9%	61.1%	100.0%	
Unit Rate			m3							98.89	51.03	245.08	153.71	241.29	395.00	

Miscellaneous covers the cost for depreciation of compaction equipment, fuel, etc.

103(3)b Selected Sand Bedding

Unit: 10.00 m3

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		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
W0128	Selected Sand, transported	m3	12.00	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	259.31	403.20	1,353.49	878.49	1,137.51	2,016.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	16.29	65.16	44.80	36.65	81.45	3.0%
Total										958.31	419.49	1,418.65	923.29	1,873.16	2,796.45	
Components (%)										34.3%	15.0%	50.7%	33.0%	67.0%	100.0%	
Unit Rate			m3							95.95	42.00	142.05	92.45	187.55	280.00	

Miscellaneous covers the cost for depreciation of compaction equipment, fuel, etc.

103(6) Pipe Culverts and Drain Excavation

Unit: 100.00 m3

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		
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	184.05	343.56	3,562.39	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	83.90	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	644.17	1,152.63	6,014.29	4,016.22	3,794.87	7,811.09	
W0133	Backfill C	m3	16.10	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	271.39	275.72	1,787.39	1,151.25	1,183.25	2,334.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,099.61	1,771.91	11,364.07	7,330.21	6,905.38	14,235.59	
Components (%)										7.7%	12.4%	79.8%	51.5%	48.5%	100.0%	
Unit Rate			m3							10.97	17.67	113.36	73.12	68.88	142.00	

103(7) Granular Backfill for Pipe Culverts

Unit: 10.00 m3

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)
#0128	Selected Sand, transported	m3	12.00	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	259.31	403.20	1,353.49	878.49	1,137.51	2,016.00	Loss 20.0%
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	608.00	0.00	0.00	608.00	608.00		
R0307-000	Plate Compactor	day	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.66	124.80	
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										867.31	446.36	1,477.79	974.09	1,817.37	2,791.46	
Components (%)										31.1%	16.0%	52.9%	34.9%	65.1%	100.0%	
Unit Rate			m3							86.69	44.61	147.70	97.36	181.64	279.00	

104(1) Embankment from Excavated Soil

Unit: 100.00 m3

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)
#0101	Excavation, Bulldozer 21t	m3	120.00	1.6%	8.1%	90.3%	54.3%	45.7%	25.40	48.77	246.89	2,752.34	1,654.20	1,393.80	3,048.00	Loss 20.0%
#0123	Excavated Soil, transported	m3	120.00	7.4%	13.4%	79.1%	51.7%	48.3%	65.00	580.98	1,045.34	6,173.68	4,034.81	3,765.19	7,800.00	
#0141	Filling & Laying, bulldozer 15t	m3	100.00	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	82.50	214.50	2,453.00	1,473.42	1,276.58	2,750.00	Loss 20.0%
#0147	Compaction, tire roller 8~20t	m3	100.00	4.4%	8.0%	87.6%	52.7%	47.3%	10.40	45.76	83.20	911.04	548.38	491.62	1,040.00	
#0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.0%	51.1%	48.9%	39.70	29.16	28.75	328.78	197.48	189.20	386.68	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total										787.16	1,618.68	12,618.83	7,908.30	7,116.38	15,024.68	
Components (%)										5.2%	10.8%	84.0%	52.6%	47.4%	100.0%	
Unit Rate			m3							7.86	16.16	125.98	78.95	71.05	150.00	

104(3) Embankment from Borrow Soil

Unit: 100.00 m3

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)
#0121	Borrow Soil, transported	m3	120.00	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	1,754.00	5,596.54	17,849.46	12,170.53	13,029.47	25,200.00	Loss 20.0%
#0141	Filling & Laying, bulldozer 15t	m3	100.00	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	82.50	214.50	2,453.00	1,473.42	1,276.58	2,750.00	
#0147	Compaction, tire roller 8~20t	m3	100.00	4.4%	8.0%	87.6%	52.7%	47.3%	10.40	45.76	83.20	911.04	548.38	491.62	1,040.00	0.0%
#0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.0%	51.1%	48.9%	39.70	29.16	28.75	328.78	197.48	189.20	386.68	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										1,911.41	5,922.99	21,542.28	14,389.82	14,986.85	29,376.68	
Components (%)										6.5%	20.2%	73.3%	49.0%	51.0%	100.0%	
Unit Rate			m3							19.13	59.28	215.69	144.01	149.99	294.00	

104(4) Embankment from Borrow (Selected Granular Material) for Bridge

Unit: 100.00 m3

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)
#0128	Selected Sand, transported	m3	120.00	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	2,593.12	4,031.97	13,534.91	8,784.91	11,375.09	20,160.00	Loss 20.0%
#0141	Filling & Laying, bulldozer 15t	m3	100.00	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	82.50	214.50	2,453.00	1,473.42	1,276.58	2,750.00	
#0145	Compaction, bulldozer 15t	m3	100.00	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	72.00	187.20	2,140.80	1,285.90	1,114.10	2,400.00	0.0%
#0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.0%	51.1%	48.9%	39.70	29.16	28.75	328.78	197.48	189.20	386.68	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										2,776.78	4,462.42	18,457.49	11,741.71	13,954.97	25,696.68	
Components (%)										10.8%	17.4%	71.8%	45.7%	54.3%	100.0%	
Unit Rate			m3							27.77	44.63	184.60	117.43	139.57	257.00	

105(1) Subgrade Preparation (Common Soil)

Unit: 100.00 m2

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)
L020	Unskilled Labor	md	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	41.60	0.00	0.00	0.00	41.60	41.60	0.0%
R0301-371	Motor Grader, 3.7m	hr	0.26	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	21.45	40.01	518.34	308.27	271.53	579.80	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Koller, tandem, 8~10t)	hr	0.17	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	14.22	30.87	301.72	183.62	163.18	346.80	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.17	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	14.74	26.79	293.37	176.59	158.31	334.90	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	0.11	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	6.85	14.71	38.50	30.46	29.60	60.06	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										98.85	112.38	1,151.93	698.94	664.22	1,363.16	
Components (%)										7.3%	8.2%	84.5%	51.3%	48.7%	100.0%	
Unit Rate			m2							0.99	1.12	11.49	6.97	6.63	13.60	

105(2) Subgrade Preparation (Existing Gravel Surface)

Unit: 100.00 m2

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		
L020	Unskilled Labor	md	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	41.60	0.00	0.00	0.00	41.60		
R0301-371	Motor Grader, 3.7m	hr	0.26	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	21.45	40.01	518.34	308.27	271.53	579.80	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, Tandem, 8~10t)	hr	0.17	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	14.22	30.87	301.72	183.62	163.18	346.80	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.17	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	14.74	26.79	293.37	176.59	158.31	334.90	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	0.11	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	6.85	14.71	38.50	30.46	29.60	60.06	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.0%	
Total										98.85	112.38	1,151.93	698.94	664.22	1,363.16	
Components (%)										7.3%	8.2%	84.5%	51.3%	48.7%	100.0%	
Unit Rate			m2							0.99	1.12	11.49	6.97	6.63	13.60	

Part D Subbase and Base Course

200(1) Aggregate Subbase Course

Unit: 100.00 m3

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		
L020	Unskilled Labor	md	1.36	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	435.20	0.00	0.00	0.00	435.20	435.20	
R0301-371	Motor Grader, 3.7m	hr	2.48	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	204.62	381.60	4,944.18	2,940.39	2,590.01	5,530.40	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, Tandem, 8~10t)	hr	2.08	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	173.97	377.64	3,691.58	2,246.70	1,996.50	4,243.20	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.08	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	180.29	327.81	3,589.50	2,160.62	1,936.98	4,097.60	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.36	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	84.65	181.93	475.98	376.56	366.00	742.56	
W0122	Crushed Aggregate, transported	m3	128.00	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	3,081.13	5,192.46	25,134.40	15,704.28	17,703.72	33,408.00	Loss 28.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.0%	
Total										4,159.88	6,461.44	37,835.64	23,428.55	25,028.41	48,456.96	
Components (%)										8.6%	13.3%	78.1%	48.3%	51.7%	100.0%	
Unit Rate			m3							41.64	64.67	378.69	234.49	250.51	485.00	

Thickness = 0.250 m
 Compaction layer thickness = 0.200 m

200(2) Aggregate Subbase Course using materials born by removal of existing gravel pavement

Unit: 100.00 m3

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		
L020	Unskilled Labor	md	1.36	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	435.20	0.00	0.00	0.00	435.20	435.20	
R0301-371	Motor Grader, 3.7m	hr	2.48	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	204.62	381.60	4,944.18	2,940.39	2,590.01	5,530.40	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, Tandem, 8~10t)	hr	2.08	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	173.97	377.64	3,691.58	2,246.70	1,996.50	4,243.20	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.08	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	180.29	327.81	3,589.50	2,160.62	1,936.98	4,097.60	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.36	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	84.65	181.93	475.98	376.56	366.00	742.56	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.0%	
Total										1,078.74	1,268.98	12,701.24	7,724.27	7,324.69	15,048.96	
Components (%)										7.2%	8.4%	84.4%	51.3%	48.7%	100.0%	
Unit Rate			m3							10.75	12.65	126.60	76.99	73.01	150.00	

Thickness = 0.250 m
 Compaction layer thickness = 0.200 m

201(1) Aggregate Base Course										Unit: 100.00 m ³						
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		
L020	Unskilled Labor	md	1.76	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	563.20	0.00	0.00	0.00	563.20	563.20	
R0301-371	Motor Grader, 3.71m	hr	2.48	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	204.62	381.60	4,944.18	2,940.39	2,590.01	5,530.40	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	2.64	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	220.81	479.32	4,685.47	2,851.58	2,534.02	5,385.60	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.64	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	228.84	416.06	4,555.90	2,742.33	2,458.47	5,200.80	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.68	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	104.57	224.73	587.98	465.17	452.11	917.28	
W0122	Crushed Aggregate, transported	m ³	128.00	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	3,081.13	5,192.46	25,134.40	15,704.28	17,703.72	33,408.00	Loss 28.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,403.17	6,694.18	39,907.93	24,703.74	26,301.54	51,005.28	
Components (%)										8.6%	13.1%	78.2%	48.4%	51.6%	100.0%	
Unit Rate			m ³							44.03	66.93	399.04	247.01	262.99	510.00	
Thickness =				0.250 m												
Compaction layer thickness =				0.150 m												

204(1) Cement Stabilized Sand Base Course										Unit: 100.00 m ³						
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		
L020	Unskilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	534.40	0.00	0.00	0.00	534.40	534.40	
W0128	Selected Sand, transported	m ³	120.75	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	2,609.33	4,057.17	13,619.50	8,839.82	11,446.18	20,286.00	Loss 28.0%
M03011	Portland Cement, ordinary	t	5.77	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	19,473.75	0.00	11,684.25	7,789.50	19,473.75	Loss 2.0%
R0402-005	Truck Crane, Hydraulic 2-5t	hr	1.90	18.2%	10.9%	70.9%	45.6%	54.4%	413.00	142.82	85.53	556.35	357.90	426.80	784.70	
R0302-000	Soil Stabilizer/Road Reclaimer	hr	2.00	1.4%	4.2%	94.4%	54.0%	46.0%	5,840.00	163.52	490.56	11,025.92	6,303.36	5,376.64	11,680.00	
R0301-371	Motor Grader, 3.71m	hr	1.67	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	137.79	255.96	3,329.35	1,980.02	1,744.08	3,724.10	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	1.67	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	144.76	263.19	2,881.95	1,734.73	1,555.17	3,289.90	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,732.61	24,627.17	31,413.07	30,900.08	28,872.77	59,772.85	
Components (%)										6.2%	41.2%	52.6%	51.7%	48.3%	100.0%	
Unit Rate			m ³							37.34	246.38	314.27	309.14	288.86	598.00	
Thickness =				0.300 m		Cement	6.0%									

Part E Surface Courses

300(1) Gravel Surface Course										Unit: 100.00 m ³						
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		
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
R0301-371	Motor Grader, 3.71m	hr	3.10	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00	255.78	477.00	6,180.22	3,675.48	3,237.52	6,913.00	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	3.30	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	276.01	599.15	5,856.84	3,564.47	3,167.53	6,732.00	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	3.30	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	286.04	520.08	5,694.88	3,427.91	3,073.09	6,501.00	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	2.10	11.4%	24.5%	64.1%	50.7%	49.3%	546.00	130.71	280.92	734.97	581.46	565.14	1,146.60	
W0129	Gravel/Stone, transported	m ³	132.00	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	3,107.43	4,894.52	18,266.05	11,792.12	14,475.88	26,268.00	Loss 32.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,759.98	6,771.66	36,732.96	23,041.45	25,223.15	48,264.60	
Components (%)										9.9%	14.0%	76.1%	47.7%	52.3%	100.0%	
Unit Rate			m ³							47.63	67.77	367.60	230.58	252.42	483.00	
Thickness =				0.200 m												
Compaction layer thickness =				0.150 m												

301(1) Prime Coat Unit: 1.00 t

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		
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
M07011	Prime Coat	t	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	22,635.00	0.00	22,635.00	0.00	14,712.75	7,922.25	22,635.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	22.76	204.87	113.82	113.82	227.63	1.0%
Total										128.00	22,657.76	204.87	14,826.57	8,164.07	22,990.63	
Components (%)										0.6%	98.6%	0.9%	64.5%	35.5%	100.0%	
Unit Rate			t							128.00	22,667.00	204.95	14,832.61	8,167.39	23,000.00	

Miscellaneous covers the costs for minor tools, cleaning, etc.

302(1) Tack Coat Unit: 1.00 t

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		
L020	Unskilled Labor	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	150.40	0.00	0.00	0.00	150.40	150.40	
M07012	Tack Coat	t	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	22,635.00	0.00	22,635.00	0.00	14,712.75	7,922.25	22,635.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	22.79	205.07	113.93	113.93	227.85	1.0%
Total										150.40	22,657.79	205.07	14,826.68	8,186.58	23,013.25	
Components (%)										0.7%	98.5%	0.9%	64.4%	35.6%	100.0%	
Unit Rate			t							150.31	22,644.74	204.95	14,818.14	8,181.86	23,000.00	

Miscellaneous covers the costs for minor tools, cleaning, etc.

310(1) Bituminous Concrete Surface Course, hot laid Unit: 10.00 t

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		
L002	Foreman	md	0.03	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	17.28	0.00	0.00	0.00	17.28	17.28	
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	73.80	0.00	0.00	0.00	73.80	73.80	
L020	Unskilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	57.60	0.00	0.00	0.00	57.60	57.60	
R0802-047	Asphalt Paver/Finisher, 4.7m	hr	0.28	3.2%	4.3%	92.5%	53.1%	46.9%	2,420.00	21.68	29.14	626.78	359.89	317.71	677.60	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0.28	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	23.42	50.84	496.94	302.44	268.76	571.20	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.28	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	24.27	44.13	483.20	290.85	260.75	551.60	
M07021	Asphalt Mixture	t	11.20	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	28,000.00	0.00	18,200.00	9,800.00	28,000.00	Loss 12.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	59.90	239.59	149.75	149.75	299.49	1.0%
Total										218.05	28,184.00	1,846.52	19,302.92	10,945.65	30,248.57	
Components (%)										0.7%	93.2%	6.1%	63.8%	36.2%	100.0%	
Unit Rate			t							21.77	2,813.87	184.36	1,927.19	1,092.81	3,020.00	

Miscellaneous covers the cost for spraying equipment, heating fuel, formwork, etc.
Asphalt Pavement Thickness = 50,000 mm Unit Weight = 2.35 t/m³

310(2) Asphalt Mixture Wearing Course (t=50mm) for bridge pavement Unit: 100.00 m²

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		
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	23.04	0.00	0.00	0.00	23.04	23.04	
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	86.10	0.00	0.00	0.00	86.10	86.10	
L020	Unskilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	67.20	0.00	0.00	0.00	67.20	67.20	
R0802-047	Asphalt Paver/Finisher, 4.7m	hr	0.33	3.2%	4.3%	92.5%	53.1%	46.9%	2,420.00	25.56	34.34	738.71	424.15	374.45	798.60	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0.33	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00	27.60	59.91	585.68	356.45	316.75	673.20	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.33	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	28.60	52.01	569.49	342.79	307.31	650.10	
M07012	Tack Coat	t	0.04	0.0%	100.0%	0.0%	65.0%	35.0%	22,635.00	0.00	905.40	0.00	588.51	316.89	905.40	
M07021	Asphalt Mixture	t	13.16	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	32,900.00	0.00	21,385.00	11,515.00	32,900.00	Loss 12.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	72.21	288.83	180.52	180.52	361.04	1.0%
Total										258.10	34,023.87	2,182.71	23,277.42	13,187.26	36,464.68	
Components (%)										0.7%	93.3%	6.0%	63.8%	36.2%	100.0%	
Unit Rate			m ²							2.58	340.57	21.85	233.00	132.00	365.00	

Miscellaneous covers the cost for spraying equipment, heating fuel, formwork, etc.
Asphalt Pavement Thickness = 50 mm Unit Weight = 2.35 t/m³
Tack Coat = 0.428 ltr/m² Unit Weight = 1.00 t/m³

310(3) Waterproofing Layer for Pampanga Deck Slab

Unit: 100.00 m2

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)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	224.00	0.00	0.00	0.00	224.00	224.00	
M07051	Rubberized Asphalt Agent	kg	52.50	0.0%	100.0%	0.0%	65.0%	35.0%	24.40	0.00	1,281.00	0.00	832.65	148.35	1,281.00	Loss 5.0%
M07052	Rubberized Asphalt	kg	42.00	0.0%	100.0%	0.0%	65.0%	35.0%	18.70	0.00	785.40	0.00	510.51	274.89	785.40	Loss 5.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	15.35	138.17	76.76	153.52	153.52	5.0%
Total										1,004.00	2,081.75	138.17	1,419.92	1,804.00	3,221.92	
Components (%)										31.1%	64.6%	4.3%	44.0%	56.0%	100.0%	
Unit Rate			m2							10.03	20.79	1.38	14.18	18.02	32.20	

Miscellaneous covers the costs for asphalt kettle, generator, air compressor, sponge roller, brushes, minor tools, etc.

311(1)a PCC Pavement (Plain), t=280mm

Unit: 100.00 m2

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)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	684.70	0.00	0.00	0.00	684.70	684.70	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,147.20	0.00	0.00	0.00	2,147.20	2,147.20	
W0211	Concrete (for PCC Pavement, 24. MPa, max agg. 50mm)	m3	28.84	2.7%	78.9%	18.4%	57.2%	42.8%	1,510.00	1,179.23	34,362.03	8,007.14	24,888.40	18,660.00	43,548.40	Loss 3.0%
M07103	Joint Filler (bituminous t=18mm)	m2	0.83	0.0%	100.0%	0.0%	60.0%	40.0%	514.00	0.00	426.62	0.00	255.97	170.65	426.62	
M07113	Joint Sealant (18x18mm)	m	3.18	0.0%	100.0%	0.0%	60.0%	40.0%	103.00	0.00	327.54	0.00	196.52	131.02	327.54	
M07117	Joint Sealant (liquid type)	kg	10.20	0.0%	100.0%	0.0%	60.0%	40.0%	96.20	0.00	981.24	0.00	588.74	392.50	981.24	
M02011	Structural Steel (Round Bar, SS400)	kg	94.49	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,059.88	0.00	1,441.92	617.96	2,059.88	
M08700	Steel Gas Pipe, φ20	m	1.42	0.0%	100.0%	0.0%	60.0%	40.0%	76.70	0.00	108.91	0.00	65.35	43.56	108.91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	1.15	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00	83.80	57.01	3,608.19	1,982.93	1,766.07	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00	82.11	154.56	1,373.33	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%	0.00	0.00	1,046.67	2,442.22	1,744.45	1,744.45	3,488.89	6.0%
Total										4,534.81	39,679.11	17,423.17	33,193.48	28,443.60	61,637.08	
Components (%)										7.4%	64.4%	28.3%	53.9%	46.1%	100.0%	
Unit Rate			m2							45.32	396.55	174.13	331.74	284.26	616.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.

Thickness = 0.280 m

311(1)b PCC Pavement (Plain), t=250mm

Unit: 100.00 m2

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)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	684.70	0.00	0.00	0.00	684.70	684.70	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,147.20	0.00	0.00	0.00	2,147.20	2,147.20	
W0211	Concrete (for PCC Pavement, 24. MPa, max agg. 50mm)	m3	26.00	2.7%	78.9%	18.4%	57.2%	42.8%	1,510.00	1,063.11	30,978.25	7,218.64	22,437.53	16,822.47	39,260.00	Loss 4.0%
M07103	Joint Filler (bituminous t=18mm)	m2	0.74	0.0%	100.0%	0.0%	60.0%	40.0%	514.00	0.00	380.36	0.00	228.22	152.14	380.36	
M07113	Joint Sealant (18x18mm)	m	3.18	0.0%	100.0%	0.0%	60.0%	40.0%	103.00	0.00	327.54	0.00	196.52	131.02	327.54	
M07117	Joint Sealant (liquid type)	kg	10.20	0.0%	100.0%	0.0%	60.0%	40.0%	96.20	0.00	981.24	0.00	588.74	392.50	981.24	
M02011	Structural Steel (Round Bar, SS400)	kg	94.49	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,059.88	0.00	1,441.92	617.96	2,059.88	
M08700	Steel Gas Pipe, φ20	m	1.42	0.0%	100.0%	0.0%	60.0%	40.0%	76.70	0.00	108.91	0.00	65.35	43.56	108.91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	1.15	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00	83.80	57.01	3,608.19	1,982.93	1,766.07	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00	82.11	154.56	1,373.33	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%	0.00	0.00	968.64	2,260.17	1,614.41	1,614.41	3,228.81	6.0%
Total										4,418.69	36,171.04	16,452.61	30,584.82	26,457.52	57,042.34	
Components (%)										7.7%	63.4%	28.8%	53.6%	46.4%	100.0%	
Unit Rate			m2							44.15	361.44	164.40	305.62	264.38	570.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.

Thickness = 0.250 m

311(i)c PCC Pavement (Plain), t=230mm

Unit: 100.00 m2

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		
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	684.70	0.00	0.00	0.00	684.70	684.70	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,147.20	0.00	0.00	0.00	2,147.20	2,147.20	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	23.92	2.7%	78.9%	18.4%	57.2%	42.8%	1,510.00	978.06	28,499.99	6,641.15	20,642.53	15,476.67	36,119.20	Loss 4.0%
M07103	Joint Filler (bituminous t=18mm)	m2	0.67	0.0%	100.0%	0.0%	60.0%	40.0%	514.00	0.00	344.38	0.00	206.63	137.75	344.38	
M07113	Joint Sealant (18x18mm)	m	3.18	0.0%	100.0%	0.0%	60.0%	40.0%	103.00	0.00	327.54	0.00	196.52	131.02	327.54	
M07117	Joint Sealant (liquid type)	kg	10.20	0.0%	100.0%	0.0%	60.0%	40.0%	96.20	0.00	981.24	0.00	588.74	392.50	981.24	
M02011	Structural Steel (Round Bar, SS400)	kg	97.02	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,115.04	0.00	1,480.53	634.51	2,115.04	
M08700	Steel Gas Pipe, φ20	m	1.42	0.0%	100.0%	0.0%	60.0%	40.0%	76.70	0.00	108.91	0.00	65.35	43.56	108.91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	1.15	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00	83.80	57.01	3,608.19	1,982.93	1,766.07	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00	82.11	154.56	1,373.33	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%		0.00	912.45	2,129.06	1,520.76	1,520.76	3,041.51	6.0%
Total										4,333.64	33,655.77	15,744.01	28,713.19	25,020.23	53,733.42	
Components (%)										8.1%	62.6%	29.3%	53.4%	46.6%	100.0%	
Unit Rate			m2							43.31	336.35	157.34	286.95	250.05	537.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.
Thickness = 0.230 m

311(i)d PCC Pavement (Plain), t=180mm

Unit: 100.00 m2

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		
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	684.70	0.00	0.00	0.00	684.70	684.70	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,147.20	0.00	0.00	0.00	2,147.20	2,147.20	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	18.72	2.7%	78.9%	18.4%	57.2%	42.8%	1,510.00	765.44	22,304.34	5,197.42	16,155.02	12,112.18	28,267.20	Loss 4.0%
M07103	Joint Filler (bituminous t=18mm)	m2	0.51	0.0%	100.0%	0.0%	60.0%	40.0%	514.00	0.00	262.14	0.00	157.28	104.86	262.14	
M07113	Joint Sealant (18x18mm)	m	3.18	0.0%	100.0%	0.0%	60.0%	40.0%	103.00	0.00	327.54	0.00	196.52	131.02	327.54	
M07117	Joint Sealant (liquid type)	kg	10.20	0.0%	100.0%	0.0%	60.0%	40.0%	96.20	0.00	981.24	0.00	588.74	392.50	981.24	
M02011	Structural Steel (Round Bar, SS400)	kg	114.78	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,502.20	0.00	1,751.54	750.66	2,502.20	
M08700	Steel Gas Pipe, φ20	m	1.42	0.0%	100.0%	0.0%	60.0%	40.0%	76.70	0.00	108.91	0.00	65.35	43.56	108.91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	1.15	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00	83.80	57.01	3,608.19	1,982.93	1,766.07	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00	82.11	154.56	1,373.33	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%		0.00	776.61	1,812.08	1,294.34	1,294.34	2,588.69	6.0%
Total										4,121.01	27,629.20	13,983.31	24,220.94	21,512.58	45,733.52	
Components (%)										9.0%	60.4%	30.6%	53.0%	47.0%	100.0%	
Unit Rate			m2							41.18	276.09	139.73	242.03	214.97	457.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.
Thickness = 0.180 m

SPL 311(i)e PCC Pavement (Lean Mix Concrete)

Unit: 10.00 m3

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		
L002	Foreman	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	190.08	0.00	0.00	0.00	190.08	190.08	
L019	Skilled Labor	md	1.39	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	569.90	0.00	0.00	0.00	569.90	569.90	
L020	Unskilled Labor	md	5.59	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,788.80	0.00	0.00	0.00	1,788.80	1,788.80	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	10.40	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	423.87	10,954.77	2,869.37	8,001.81	6,246.19	14,248.00	Loss 4.0%
Q0705-075	Concrete Spreader, 3~7.5m	hr	0.96	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00	69.96	47.59	3,012.05	1,655.32	1,474.28	3,129.60	
R0706-090	Concrete Paver/Finisher	hr	0.96	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00	68.54	129.02	1,446.43	707.43	636.57	1,344.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%		0.00	973.24	417.10	695.17	695.17	1,390.34	6.0%
Total										3,217.66	11,677.81	9,667.15	12,047.98	12,514.64	24,562.62	
Components (%)										13.1%	47.5%	39.4%	49.1%	50.9%	100.0%	
Unit Rate			m3							322.26	1,169.56	968.19	1,206.63	1,253.37	2,460.00	

Miscellaneous covers the cost for joints, formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.
Average Thickness = 0.120 m

SPL 311(2) PCC Pavement (Reinforced), t=300mm (Approach Slab)

Unit: 100.00 m²

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)
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	33.66	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	1,343.17	43,612.17	8,900.67	30,571.98	23,284.02	53,856.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	33.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	1,342.65	16.69	7,154.65	3,834.22	4,679.78	8,514.00	
W0237	Concrete Curing (reinforced concrete)	m ³	33.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	105.65	10.78	25.14	19.76	121.81	141.57	
W0241	Formwork (reinforced concrete H<4m)	m ²	18.62	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,522.61	1,670.98	33.15	122.50	4,104.24	4,226.74	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,444.40	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	5,209.65	25,954.28	2,635.03	18,200.92	15,598.04	33,798.96	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,805.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	13,687.68	72,404.28	7,142.79	50,664.99	42,569.76	93,234.75	
W07102	Joint Filler (bituminous t=12mm)	m ²	9.27	0.0%	100.0%	0.0%	60.0%	40.0%	343.00	0.00	3,179.61	0.00	1,907.77	1,271.84	3,179.61	
W07112	Joint Sealant (12x12mm)	m	32.20	0.0%	100.0%	0.0%	60.0%	40.0%	75.20	0.00	2,421.44	0.00	1,452.86	968.58	2,421.44	
W02011	Structural Steel (Round Bar, SS400)	kg	118.89	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,591.80	0.00	1,814.26	777.54	2,591.80	
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	50.0%	50.0%		403.93	807.86	2,827.51	2,019.65	2,019.65	4,039.30	
Total										24,615.34	152,669.88	28,718.95	110,608.91	95,395.26	206,004.17	
Components (%)										11.9%	74.1%	13.9%	53.7%	46.3%	100.0%	
Unit Rate			m ²							246.15	1,526.67	287.18	1,106.07	953.93	2,060.00	

Miscellaneous covers the cost for surface finishing, minor tools, etc.
Thickness = 0.300 m

Part F Bridge Construction

400(3)a Steel H Piles (450mmx260kg/m), furnished

Unit: 100.00 m

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)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20		
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00		
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00		
W02015	Structural Steel (Plates, SS400)	kg	25,396.80	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	513,015.36	0.00	359,110.75	153,904.61	513,015.36	Loss 4.0%	
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00		
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.61	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	45.69	50.26	556.75	335.83	316.87	652.70		
R0604-020	Trailer 20t	hr	4.52	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	294.39	807.68	6,446.33	4,023.77	3,524.63	7,548.40		
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	50.0%	50.0%		13,161.22	26,322.43	92,128.52	65,806.08	65,806.08	131,612.17		25.0%
Total										14,538.49	542,314.17	101,211.16	431,785.09	226,275.74	658,060.83		
Components (%)										2.2%	82.4%	15.4%	65.6%	34.4%	100.0%		
Unit Rate			m							145.34	5,422.64	1,012.02	4,317.45	2,262.55	6,580.00		

Miscellaneous covers the cost for fabricator's overhead, facilities, etc.

400(4)a Precast RC Concrete Pile (400mm x 400mm), furnished

Unit: 100.00 m

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)	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m ³	15.94	2.1%	83.8%	14.0%	57.9%	42.1%	1,830.00	622.68	24,451.76	4,095.76	16,891.39	12,278.81	29,170.20	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	15.63	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	635.93	7.91	3,388.70	1,816.03	2,216.51	4,032.54		
W0237	Concrete Curing (reinforced concrete)	m ³	15.63	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	50.04	5.10	11.91	9.36	67.05			
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,696.70	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	16,940.02	84,394.52	8,568.23	59,183.22	50,719.56	109,902.78		
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.59	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	43.94	53.36	687.40	407.74	376.96	784.70		
R0604-020	Trailer 20t	hr	1.27	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	82.72	226.94	1,811.25	1,130.57	990.33	2,120.90		
	Miscellaneous	LS	1.00	5.0%	25.0%	70.0%	50.0%	50.0%		584.31	2,921.56	8,180.38	5,843.13	5,843.13	11,686.25		8.0%
Total										18,959.64	112,061.15	26,743.63	85,281.43	72,482.99	157,764.42		
Components (%)										12.0%	71.0%	17.0%	54.1%	45.9%	100.0%		
Unit Rate			m							189.88	1,122.28	267.84	854.09	725.91	1,580.00		

Miscellaneous covers the cost for mould, forms, maintenance of fabrication yard, minor tools and devices, etc.

400(4)b Precast RC Concrete Pile (450mmx450mm) furnished

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign			Local
W0206	Concrete (Class AA2, 28Mpa, max agr. 20mm)	m3	20.04	2.1%	83.8%	14.0%	57.9%	42.1%	1,830.00	782.84	30,741.11	5,149.25	21,236.10	15,437.10	36,673.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	19.65	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	799.49	9.94	4,260.27	2,283.10	2,786.60	5,069.70	
W0237	Concrete Curing (reinforced concrete)	m3	19.65	74.6%	7.6%	17.8%	14.0%	86.0%	-4.29	62.91	6.42	14.97	11.76	72.54	84.30	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	5,985.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	21,587.74	107,549.24	10,919.04	75,420.90	64,635.12	140,056.02	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.74	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	55.12	66.93	862.16	511.41	472.79	984.20	
R0604-020	Trailer 20t	hr	1.60	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	104.21	285.90	2,281.89	1,424.34	1,247.66	2,672.00	
	Miscellaneous	LS	1.00	5.0%	25.0%	70.0%	50.0%	50.0%		742.16	3,710.79	10,390.21	7,421.58	7,421.58	14,843.15	8.0%
Total										24,134.46	142,370.32	33,877.79	108,309.19	92,073.39	200,382.57	
Components (%)										12.0%	71.0%	16.9%	54.1%	45.9%	100.0%	
Unit Rate			m							240.88	1,420.99	338.13	1,081.02	918.98	2,000.00	

Miscellaneous covers the cost for mould, forms, maintenance of fabrication yard, minor tools and devices, etc.

400(10)a Steel H Piles (450mmx260kg/m), driven

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign			Local
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L009	Welder	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	712.60	0.00	0.00	0.00	712.60	712.60	
L019	Skilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,148.00	0.00	0.00	0.00	1,148.00	1,148.00	
L020	Unskilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	448.00	0.00	0.00	0.00	448.00	448.00	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	8.80	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	14,696.00	8,173.10	6,522.90	14,696.00	
R0401-035	Crawler Crane, 31-35t	hr	8.80	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	650.50	1,448.83	12,684.67	7,822.46	6,961.54	14,784.00	
W02001	Reinforcing Bars, Grade 40	kg	938.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	15,014.40	0.00	9,759.36	5,255.04	15,014.40	Loss 2.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	5.28	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	393.25	477.52	6,151.62	3,648.95	3,373.45	7,022.40	
R0901-050	Welding Machine 500A	day	1.40	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	1,243.03	814.97	1,247.90	810.10	2,058.00	
R1001-150	Generator 101-150 kW	day	1.40	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,638.19	2,415.81	3,029.84	2,024.16	5,054.00	
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	50.0%	50.0%		30.87	123.49	463.08	308.72	308.72	617.44	1.0%
Total										4,189.62	20,945.46	37,226.15	33,990.33	28,370.91	62,361.24	
Components (%)										6.7%	33.6%	59.7%	54.5%	45.5%	100.0%	
Unit Rate			m							41.92	209.58	372.49	340.11	283.89	624.00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

$T_c = (T_b + T_w + T_p) / F$	=	26.39 min	L : Pile Driving Length	5.00 m
Tc: Cycle time per pile	=	5.75 min	D : Pile size	0.45 m
Tb: Driving Time = $K \cdot \alpha \cdot L \cdot \beta$	=	0.00 min	n : number of joint	0.00
Tw: Welding Time = $17 \cdot n$	=	18.00 min	f1: Obstruction factor	0.00
Tp: Preparation time = $6 \cdot (n+1) + 12$	=	0.90	f2: Space factor	0.00
F : Efficiency = $0.9 + (f1 + f2 + f3)$	=	1.00	f3: Volume factor	0.00
K : Pile Coefficient	=	1.15	T : Daily Operation hour	6.29 hr
α : Soil factor	=	1.00	Pile head re-bars	46.00 kg/each
β : Hammer factor	=			

400(13)a Precast Concrete Piles (400mm x 400mm), driven

Unit: 100.00 m

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		
L002	Foreman	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	564.48	0.00	0.00	0.00	564.48	564.48	
L009	Welder	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	498.82	0.00	0.00	0.00	498.82	498.82	
L019	Skilled Labor	md	1.96	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	803.60	0.00	0.00	0.00	803.60	803.60	
L020	Unskilled Labor	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	313.60	0.00	0.00	0.00	313.60	313.60	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6.17	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	10,303.90	5,730.45	4,573.45	10,303.90	
R0401-035	Crawler Crane, 31-35t	hr	6.17	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	456.09	1,015.83	8,893.68	5,484.61	4,880.99	10,365.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.70	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	275.58	334.63	4,310.80	2,557.03	2,363.97	4,921.00	
R0901-050	Welding Machine 500A	day	0.98	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	870.12	570.48	873.53	567.07	1,440.60	
R1001-150	Generator 101-150 kW	day	0.98	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,846.73	1,691.07	2,120.89	1,416.91	3,537.80	
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	55.0%	45.0%		16.37	65.50	245.62	180.12	147.37	327.49	1.0%
Total										2,928.54	4,132.81	26,015.55	16,946.64	16,130.25	33,076.89	
Components (%)										8.9%	12.5%	78.7%	51.2%	48.8%	100.0%	
Unit Rate			m							29.31	41.36	260.34	169.58	161.42	331.00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

$T_c = (T_b + T_w + T_p) / F$
 T_c : Cycle time per pile = 43.10 min
 T_b : Driving Time = $K \cdot \alpha \cdot L \cdot \beta$ = 20.79 min
 T_w : Welding Time = $17 \cdot n$ = 0.00 min
 T_p : Preparation time = $6 \cdot (n+1) + 12$ = 18.00 min
 F : Efficiency = $0.9 + (f_1 + f_2 + f_3)$ = 0.90
 K : Pile Coefficient = 1.60
 α : Soil factor = 1.15
 β : Hammer factor = 0.97
 L : Pile Driving Length = 11.65 m
 D : Pile size = 0.40 m
 n : number of joint = 0.00
 f_1 : Obstruction factor = 0.00
 f_2 : Space factor = 0.00
 f_3 : Volume factor = 0.00
 T : Daily Operation hour = 6.29 hr

400(13)b Precast Concrete Piles (450mm x 450mm), driven

Unit: 100.00 m

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		
L002	Foreman	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	599.04	0.00	0.00	0.00	599.04	599.04	
L009	Welder	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	529.36	0.00	0.00	0.00	529.36	529.36	
L019	Skilled Labor	md	2.08	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	852.80	0.00	0.00	0.00	852.80	852.80	
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	332.80	0.00	0.00	0.00	332.80	332.80	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6.54	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	10,921.80	6,074.10	4,847.70	10,921.80	
R0401-035	Crawler Crane, 31-35t	hr	6.54	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	483.44	1,076.75	9,427.02	5,813.51	5,173.69	10,987.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.92	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	291.96	354.52	4,567.11	2,709.07	2,504.53	5,213.60	
R0901-050	Welding Machine 500A	day	1.04	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	923.40	605.40	927.01	601.79	1,528.80	
R1001-150	Generator 101-150 kW	day	1.04	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,959.80	1,794.60	2,250.74	1,503.66	3,754.40	
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	55.0%	45.0%		17.38	69.44	260.40	190.96	156.24	347.28	1.0%
Total										3,106.76	4,383.90	27,576.34	17,965.39	17,101.61	35,067.00	
Components (%)										8.9%	12.5%	78.6%	51.2%	48.8%	100.0%	
Unit Rate			m							31.10	43.88	276.02	179.82	171.18	351.00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

$T_c = (T_b + T_w + T_p) / F$
 T_c : Cycle time per pile = 41.78 min
 T_b : Driving Time = $K \cdot \alpha \cdot L \cdot \beta$ = 19.60 min
 T_w : Welding Time = $18 \cdot n$ = 0.00 min
 T_p : Preparation time = $6 \cdot (n+1) + 12$ = 18.00 min
 F : Efficiency = $0.9 + (f_1 + f_2 + f_3)$ = 0.90
 K : Pile Coefficient = 1.60
 α : Soil factor = 1.15
 β : Hammer factor = 1.00
 L : Pile Driving Length = 10.65 m
 D : Pile size = 0.45 m
 n : number of joint = 0.00
 f_1 : Obstruction factor = 0.00
 f_2 : Space factor = 0.00
 f_3 : Volume factor = 0.00
 T : Daily Operation hour = 6.29 hr

400(15)a Test Piles (400mm x 400mm), furnished & driven

Unit: 100.00 m

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		
L002	Foreman	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	443.52	0.00	0.00	0.00	443.52	443.52	
L009	Welder	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	391.93	0.00	0.00	0.00	391.93	391.93	
L019	Skilled Labor	md	1.53	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	627.30	0.00	0.00	0.00	627.30	627.30	
L020	Unskilled Labor	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	246.40	0.00	0.00	0.00	246.40	246.40	
400(4)a	Precast RC Concrete Pile (400mm x 400mm), furnished	m	100.00	12.0%	71.0%	17.0%	54.1%	45.9%	1,580.00	18,987.95	112,228.48	26,783.57	85,408.77	72,591.23	158,000.00	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	4.82	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	8,049.40	4,476.63	3,572.77	8,049.40	
R0401-035	Crawler Crane, 31-35t	hr	4.82	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	356.29	793.56	6,947.74	4,284.58	3,813.02	8,097.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.89	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	215.25	261.37	3,367.08	1,997.25	1,846.45	3,843.70	
R0901-050	Welding Machine 500A	day	0.77	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	683.67	448.23	686.35	445.55	1,131.90	
R1001-150	Generator 101-150 kW	day	0.77	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,451.00	1,328.70	1,666.41	1,113.29	2,779.70	
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	55.0%	45.0%		183.61	367.22	1,285.28	1,009.86	826.25	1,836.11	1.0%
	Total									21,452.25	115,783.31	48,210.00	99,529.85	85,917.72	185,447.56	
	Components (%)									11.6%	62.4%	26.0%	53.7%	46.3%	100.0%	
	Unit Rate	m								214.00	1,155.06	480.94	992.99	857.10	1,850.00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

Tc = (Tb + Tw + Tp) / F	=	43.10 min	LF: Pile Furnished Length	=	14.90 m
Tb: Driving Time = K · α · L · β	=	20.79 min	Ld: Pile Driving Length	=	11.65 m
Tw: Welding Time = 17 · n	=	0.00 min	D: Pile size	=	0.40 m
Tp: Preparation time = 6 · (n+1) + 12	=	18.00 min	n: number of joint	=	0.00
F: Efficiency = 0.9 + (f1 + f2 + f3)	=	0.90	f1: Obstruction factor	=	0.00
K: Pile Coefficient	=	1.60	f2: Space factor	=	0.00
α: Soil factor	=	1.15	f3: Volume factor	=	0.00
β: Hammer factor	=	0.97	T: Daily Operation hour	=	6.29 hr

400(15)b Test Piles (450mm x 450mm), furnished & driven

Unit: 100.00 m

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	407.20	0.00	0.00	0.00	407.20	407.20	
L019	Skilled Labor	md	1.59	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	651.90	0.00	0.00	0.00	651.90	651.90	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	256.00	256.00	
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	m	100.00	12.0%	71.0%	16.9%	54.1%	45.9%	2,000.00	24,088.38	142,098.51	33,813.11	108,102.40	91,897.60	200,000.00	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	5.01	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	8,366.70	4,653.09	3,713.61	8,366.70	
R0401-035	Crawler Crane, 31-35t	hr	5.01	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	370.34	824.85	7,221.61	4,453.47	3,963.33	8,416.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.01	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	224.18	272.22	3,506.89	2,080.18	1,923.12	4,003.30	
R0901-050	Welding Machine 500A	day	0.80	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	710.30	465.70	713.09	462.91	1,176.00	
R1001-150	Generator 101-150 kW	day	0.80	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,507.54	1,380.46	1,731.34	1,156.66	2,888.00	
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	55.0%	45.0%		226.63	453.25	1,586.39	1,246.45	1,019.82	2,266.27	1.0%
	Total									26,685.43	145,866.67	56,340.86	122,980.01	105,912.95	228,892.97	
	Components (%)									11.7%	63.7%	24.6%	53.7%	46.3%	100.0%	
	Unit Rate	m								266.98	1,459.35	563.67	1,230.38	1,059.62	2,290.00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

Tc = (Tb + Tw + Tp) / F	=	41.78 min	LF: Pile Furnished Length	=	13.90 m
Tb: Driving Time = K · α · L · β	=	19.60 min	Ld: Pile Driving Length	=	10.65 m
Tw: Welding Time = 17 · n	=	0.00 min	D: Pile size	=	0.45 m
Tp: Preparation time = 6 · (n+1) + 12	=	18.00 min	n: number of joint	=	0.00
F: Efficiency = 0.9 + (f1 + f2 + f3)	=	0.90	f1: Obstruction factor	=	0.00
K: Pile Coefficient	=	1.60	f2: Space factor	=	0.00
α: Soil factor	=	1.15	f3: Volume factor	=	0.00
β: Hammer factor	=	1.00	T: Daily Operation hour	=	6.29 hr

400(15)c Test Piles (Steel H Piles 450mmx260kg/m), furnished & driven

Unit: 100.00 m

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		
L002	Foreman	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	570.24	0.00	0.00	0.00	570.24	570.24	
L009	Welder	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	503.91	0.00	0.00	0.00	503.91	503.91	
L019	Skilled Labor	md	1.98	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	811.80	0.00	0.00	0.00	811.80	811.80	
L020	Unskilled Labor	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	316.80	0.00	0.00	0.00	316.80	316.80	
400(3)a	Steel H Piles (450mmx260kg/m), furnished	m	100.00	2.2%	82.4%	15.4%	65.6%	34.4%	6,580.00	14,534.15	542,264.05	101,201.80	431,745.18	226,254.82	658,000.00	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6.24	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00	0.00	0.00	10,420.80	5,795.47	4,625.33	10,420.80	
R0401-035	Crawler Crane, 31-35t	hr	6.24	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	461.26	1,027.35	8,994.59	5,546.84	4,936.36	10,483.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.74	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	278.56	338.25	4,357.40	2,584.67	2,389.53	4,974.20	
R0901-050	Welding Machine 500A	day	0.99	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	879.00	576.30	882.45	572.85	1,455.30	
R1001-150	Generator 101-150 kW	day	0.99	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,865.58	1,708.32	2,142.53	1,431.37	3,573.90	
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	55.0%	45.0%		691.11	1,382.22	4,837.77	3,801.11	3,110.00	6,911.10	1.0%
	Total									18,167.83	547,756.44	132,096.98	452,498.24	245,523.01	698,021.25	
	Components (%)									2.6%	78.5%	18.9%	64.8%	35.2%	100.0%	
	Unit Rate	m								181.7	5,477.4	1,320.9	4,524.8	2,455.2	6,980.0	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

- $T_c = (T_b + T_w + T_p) / F$
 T_c : Cycle time per pile = 26.20 min
 T_b : Driving Time = $K \cdot \alpha \cdot L \cdot \beta$ = 5.58 min
 T_w : Welding Time = 18'n = 0.00 min
 T_p : Preparation time = $6 \cdot (n+1) + 12$ = 18.00 min
 F : Efficiency = $0.9 + (f1 + f2 + f3)$ = 0.90
 K : Pile Coefficient = 1.00
 α : Soil Factor = 1.15
 β : Hammer factor = 0.97
 LF: Pile Furnished Length = 7.00 m
 L: Pile Driving Length = 5.00 m
 D: Pile size = 0.40 m
 n: number of joint = 0.00
 f1: Obstruction factor = 0.00
 f2: Space factor = 0.00
 f3: Volume factor = 0.00
 T: Daily Operation hour = 6.29 hr

400(16)a Cast-in-place Concrete Bored Piles ϕ 1000mm

Unit: 100.00 m

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		
L002	Foreman	md	5.44	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	3,133.44	0.00	0.00	0.00	3,133.44	3,133.44	
L019	Skilled Labor	md	9.14	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,747.40	0.00	0.00	0.00	3,747.40	3,747.40	
L020	Unskilled Labor	md	8.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,688.00	0.00	0.00	0.00	2,688.00	2,688.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	84.82	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	3,374.45	122,598.47	22,462.08	85,682.53	62,752.47	148,435.00	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	78.54	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	3,195.51	39.73	17,028.08	9,125.44	11,137.88	20,263.32	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	157.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	566.27	2,821.12	286.42	1,978.36	1,695.44	3,673.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	21,049.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	75,709.36	400,482.90	39,508.23	280,238.44	235,462.06	515,700.50	
Q0513-120	All Casing Excavator, ϕ 1200max	hr	34.35	1.0%	4.4%	94.6%	55.4%	44.6%	6,210.00	2,212.06	9,317.14	201,784.29	118,165.03	95,148.47	213,313.50	
R0401-035	Crawler Crane, 31-35t	hr	30.91	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	2,284.87	5,089.02	44,554.91	27,476.40	24,452.40	51,928.80	
Q0514-100	Hammer Grab, ϕ 1000	day	5.28	0.0%	0.0%	100.0%	67.0%	33.0%	5,650.00	0.00	0.00	29,884.80	20,011.07	9,873.73	29,884.80	
Q0515-001	Hammer Crown, $\leq \phi$ 1200	day	5.28	0.0%	0.0%	100.0%	70.7%	29.3%	1,430.00	0.00	0.00	7,550.40	5,338.53	2,211.87	7,550.40	
Q0516-105	Casing Tube, ϕ 1000, L=5m	day	116.07	0.0%	0.0%	100.0%	68.5%	31.5%	1,780.00	0.00	0.00	206,604.60	141,572.06	65,032.54	206,604.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	77.52	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	595.19	1,064.98	5,556.94	3,710.81	3,506.30	7,217.11	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		1,821.21	10,927.27	23,675.74	20,033.32	16,390.90	36,424.22	3.0%
	Total									99,327.76	552,340.63	598,896.50	713,332.01	537,232.88	1,250,564.89	
	Components (%)									7.9%	44.2%	47.9%	57.0%	43.0%	100.0%	
	Unit Rate	m								992.83	5,520.91	5,936.26	7,130.10	5,369.90	12,500.00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

- $T_c = T_{so} + T_e$
 T_c : Cycle time per pile = 573 min/pile
 T_{so} : Preparation Time = $46.8 + 11.3 \times L^2$ = 348 min/pile
 T_e : Excavation Time = $25 \times L$ = 225 min/pile
 T_{D1} : Excavator Operation Time $T_{D1} = T_c - 16.4$ = 556.44 min/pile
 T_{D2} : Crawler Crane Operation Time $T_{D2} = 0.9 \times T_{D1}$ = 500.80 min/pile
 D: Pile diameter = 1.000 m
 L: Pile Length = 27.000 m
 L2: Excavation depth = 26.650 m
 Steel Casing Length = 29.650 m
 T: Daily Operation hour = 6.50 hr
- | | ai | Li | sixLi |
|--------------|-------|---------------|---------------|
| N < 20 | 8.30 | 23.650 | 196.30 |
| N < 40 | 9.20 | 2.000 | 18.40 |
| N > 40 | 10.20 | 1.000 | 10.20 |
| Total | | 26.650 | 224.90 |

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	
L002	Foreman	md	5.62	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	3,237.12	0.00	0.00	0.00	3,237.12	3,237.12	
L019	Skilled Labor	md	10.89	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,464.90	0.00	0.00	0.00	4,464.90	4,464.90	
L020	Unskilled Labor	md	9.84	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,148.80	0.00	0.00	0.00	3,148.80	3,148.80	
W0205	Concrete (Class AAI, 28MPa, max agr. 25mm)	m3	122.15	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	4,859.58	176,555.10	32,347.83	123,392.14	90,370.36	213,762.50	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	113.10	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	4,601.63	57.22	24,520.95	13,140.92	16,038.88	29,179.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	226.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	815.14	4,060.97	412.29	2,847.83	2,440.57	5,288.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	30,311.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	109,023.07	576,703.75	56,892.68	403,549.22	339,070.28	742,619.50	
Q0513-120	All Casing Excavator, φ1200max	hr	35.12	1.0%	4.4%	94.6%	55.4%	44.6%	6,210.00	2,261.65	9,526.00	206,307.55	120,813.85	97,281.35	218,095.20	
R0401-035	Crawler Crane, 31-35t	hr	31.61	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	2,336.61	5,204.27	45,563.92	28,098.64	25,006.16	53,104.80	
Q0514-120	Hammer Grab, φ1200	day	5.40	0.0%	0.0%	100.0%	67.0%	33.0%	5,910.00	0.00	0.00	31,914.00	21,369.83	10,544.17	31,914.00	
Q0515-001	Hammer Crown, ≤ φ1200	day	5.40	0.0%	0.0%	100.0%	70.7%	29.3%	1,430.00	0.00	0.00	7,722.00	5,459.86	2,262.14	7,722.00	
Q0516-125	Casing Tube, φ1200, L=5m	day	128.82	0.0%	0.0%	100.0%	68.5%	31.5%	2,080.00	0.00	0.00	267,945.60	183,604.87	84,340.73	267,945.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	111.01	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	852.32	1,525.07	7,957.64	5,313.95	5,021.08	10,335.03	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		2,386.23	14,317.36	31,020.94	26,248.49	21,476.04	47,724.53	3.0%
Total										137,987.04	787,949.73	712,605.41	933,839.61	704,702.57	1,638,542.18	
Components (%)										8.4%	48.1%	43.5%	57.0%	43.0%	100.0%	
Unit Rate			m							1,381.10	7,886.51	7,132.39	9,346.70	7,053.30	16,400.00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc = Tso + Te

Tc: Cycle time per pile = 416.78 min/pile

Tso: Preparation Time = 46.8+11.3xL2 = 257.55 min/pile

Te: Excavation Time = Σai x Li = 159.24 min/pile

	ai	Li	ai x Li
N < 20	8.30	15.050	124.92
N < 40	9.20	2.400	22.08
N > 40	10.20	1.200	12.24
Total		18.650	159.24

Excavator Operation Time TD1 = Tc - 16.4

Crawler Crane Operation Time TD2 = 0.9xTD1

D : Pile diameter

L : Pile Length

L2: Excavation depth

Steel Casing Length

T : Daily Operation hour

400.38 min/pile

360.34 min/pile

1.200 m

19.000 m

18.650 m

22.650 m

6.50 hr

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	md	5.61	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	3,231.36	0.00	0.00	0.00	3,231.36	3,231.36		
L019	Skilled Labor	md	10.61	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,350.10	0.00	0.00	0.00	4,350.10	4,350.10		
L020	Unskilled Labor	md	9.61	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,075.20	0.00	0.00	0.00	3,075.20	3,075.20		
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	190.85	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	7,592.71	275,853.79	50,541.00	192,790.75	141,196.75	333,987.50	Loss 8.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	176.71	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	7,189.70	89.39	38,312.09	20,531.66	25,059.52	45,591.18		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	353.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,273.20	6,343.02	643.98	4,418.16	3,812.04	8,260.20		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	47,358.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	170,337.98	901,043.72	88,889.31	630,506.54	529,764.46	1,160,271.00		
Q0513-150	All Casing Excavator, φ1500max	hr	35.09	0.7%	2.1%	97.2%	55.3%	44.7%	8,630.00	2,256.83	6,322.98	294,246.90	167,589.91	135,236.79	302,826.70		
R0401-035	Crawler Crane, 31-35t	hr	31.58	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	2,334.39	5,199.33	45,520.68	28,071.98	24,982.42	53,054.40		
Q0514-150	Hammer Grab, φ1500	day	5.40	0.0%	0.0%	100.0%	67.0%	33.0%	10,100.00	0.00	0.00	54,540.00	36,520.36	18,019.64	54,540.00		
Q0515-002	Hammer Crown, > φ1200	day	5.40	0.0%	0.0%	100.0%	70.7%	29.3%	1,920.00	0.00	0.00	10,368.00	7,330.72	3,037.28	10,368.00		
Q0516-155	Casing Tube, φ1500, L=5m	day	133.07	0.0%	0.0%	100.0%	68.5%	31.5%	2,690.00	0.00	0.00	357,958.30	245,284.45	112,673.85	357,958.30		
W0111	Disposal of Surplus Soil (backhoe loading)	m3	173.62	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	1,333.03	2,385.22	12,445.77	8,311.04	7,852.98	16,164.02		
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		3,530.52	21,183.10	45,896.72	38,835.69	31,774.65	70,610.34	3.0%	
Total										296,505.01	1,218,420.55	999,362.74	1,380,221.26	1,044,067.04	2,424,288.30		
Components (%)										8.5%	50.3%	41.2%	56.9%	43.1%	100.0%		
Unit Rate			m							2,061.40	12,162.65	9,975.95	13,777.80	10,422.20	24,200.00		

Miscellaneous covers the cost for stand pipe, tremay pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc = Iso + Te

Te: Cycle time per pile = 437.49 min/pile

Iso: Preparation Time = 46.8+11.3xL2 = 268.85 min/pile

Te: Excavation Time = ΣaixLi = 168.65 min/pile

	ai	Li	aixLi
N < 20	8.30	15.150	125.75
N < 40	9.20	3.000	27.60
N > 40	10.20	1.500	15.30
Total		19.650	168.65

Excavator Operation Time TD1 = Tc - 16.4

Crawler Crane Operation Time TD2 = 0.9xTD1

D : Pile diameter

L : Pile Length

L2: Excavation depth

Steel Casing Length

T : Daily Operation hour

421.09 min/pile

378.98 min/pile

1.500 m

20.000 m

19.650 m

24.650 m

6.50 hr

400(16)d Cast-in-place Concrete Bored Piles ϕ 800mm

Unit: 100.00 m

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)
L002	Foreman	md	5.94	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	3,421.44	0.00	0.00	0.00	3,421.44	3,421.44	
L019	Skilled Labor	md	14.28	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	5,854.80	0.00	0.00	0.00	5,854.80	5,854.80	
L020	Unskilled Labor	md	12.61	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,035.20	0.00	0.00	0.00	4,035.20	4,035.20	
W0205	Concrete (Class AAI, 28MPa, max agg. 25mm)	m3	54.29	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	2,159.86	78,470.54	14,377.11	54,842.07	40,165.43	95,007.50	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	50.27	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	2,045.31	25.43	10,898.92	5,840.79	7,128.87	12,969.66	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,137.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	11,314.51	56,368.43	5,722.86	39,529.41	33,876.39	73,405.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	13,975.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	50,265.49	265,891.42	26,230.59	186,057.88	156,329.62	342,387.50	
Q0513-120	All Casing Excavator, ϕ 1200max	hr	36.35	1.0%	4.4%	94.6%	55.4%	44.6%	6,210.00	2,340.86	9,859.62	213,533.02	125,045.09	100,688.41	225,733.50	
R0401-035	Crawler Crane, 31-35t	hr	32.71	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00	2,417.92	5,385.37	47,149.50	29,076.45	25,876.35	54,952.80	
Q0514-080	Hammer Grab, ϕ 800	day	5.59	0.0%	0.0%	100.0%	67.0%	33.0%	5,170.00	0.00	0.00	28,900.30	19,351.84	9,548.46	28,900.30	
Q0515-002	Hammer Crown, $>$ ϕ 1200	day	5.59	0.0%	0.0%	100.0%	70.7%	29.3%	1,920.00	0.00	0.00	10,732.80	7,588.66	3,144.14	10,732.80	
Q0516-085	Casing Tube, ϕ 800, L=5m	day	117.90	0.0%	0.0%	100.0%	68.5%	31.5%	1,710.00	0.00	0.00	201,609.00	138,148.92	63,460.08	201,609.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	48.80	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	374.68	670.42	3,498.18	2,336.01	2,207.27	4,543.28	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		1,595.33	9,571.98	20,739.29	17,548.63	14,357.97	31,906.61	3.0%
Total										85,825.40	426,243.22	583,391.57	625,365.76	470,094.43	1,095,460.19	
Components (%)										7.8%	38.9%	53.3%	57.1%	42.9%	100.0%	
Unit Rate			m							861.81	4,280.10	5,858.09	6,279.57	4,720.43	11,000.00	

Miscellaneous covers the cost for stand pipe, tremy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

$T_c = T_{so} + T_e$

T_c : Cycle time per pile = 278.10 min/pile

T_{so} : Preparation Time = 46.8+1.3xL2 = 178.45 min/pile

T_e : Excavation Time = $\sum a_i x L_i$ = 99.66 min/pile

Excavator Operation Time $T_{D1} = T_c - 16.4$ = 261.70 min/pile

Crawler Crane Operation Time $T_{D2} = 0.9 \times T_{D1}$ = 235.53 min/pile

D : Pile diameter = 0.800 m

L : Pile Length = 12.000 m

L2: Excavation depth = 11.650 m

Steel Casing Length = 12.650 m

T : Daily Operation hour = 6.50 hr

	ai	Li	aiLi
N < 20	8.30	9.250	76.78
N < 40	9.20	1.600	14.72
N > 40	10.20	0.800	8.16
Total		11.650	99.66

400(19)a File shoes for 400mm x 400mm Piles

Unit: 1.00 each

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)
L009	Welder	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	25.45	0.00	0.00	0.00	25.45	25.45	
L019	Skilled Labor	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	20.50	0.00	0.00	0.00	20.50	20.50	
W02015	Structural Steel (Plates, SS400)	kg	11.99	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	242.20	0.00	169.54	72.66	242.20	
W02002	Reinforcing Bars, Grade 60	kg	22.70	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	385.90	0.00	250.84	135.07	385.90	
R0901-025	Welding Machine 250A	day	0.05	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	11.70	17.70	17.22	12.18	29.40	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		1.41	4.22	8.44	7.03	7.03	14.07	2.0%
Total										47.36	644.02	26.14	444.63	272.89	717.52	
Components (%)										6.6%	89.8%	3.6%	62.0%	38.0%	100.0%	
Unit Rate			each							47.39	644.45	26.16	444.93	273.07	718.00	

Miscellaneous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400(19)b File shoes for 450mm x 450mm Piles

Unit: 1.00 each

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)
L009	Welder	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	25.45	0.00	0.00	0.00	25.45	25.45	
L019	Skilled Labor	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	20.50	0.00	0.00	0.00	20.50	20.50	
W02015	Structural Steel (Plates, SS400)	kg	11.99	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	242.20	0.00	169.54	72.66	242.20	
W02002	Reinforcing Bars, Grade 60	kg	22.70	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	385.90	0.00	250.84	135.07	385.90	
R0901-025	Welding Machine 250A	day	0.05	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	11.70	17.70	17.22	12.18	29.40	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		1.41	4.22	8.44	7.03	7.03	14.07	2.0%
Total										47.36	644.02	26.14	444.63	272.89	717.52	
Components (%)										6.6%	89.8%	3.6%	62.0%	38.0%	100.0%	
Unit Rate			each							47.39	644.45	26.16	444.93	273.07	718.00	

Miscellaneous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400(20)a Splices for 400mm x 400mm Piles Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	0.00	410.00	410.00
M02011	Structural Steel (Round Bar, SS400)	kg	5,752.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	125,402.32	0.00	87,781.62	37,620.70	125,402.32	
W0225	Grout (non-shrink)	m3	0.78	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	23.19	2,293.84	61.98	1,457.33	921.67	2,379.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		256.38	769.15	1,538.30	1,281.91	1,281.91	2,563.83	2.0%
	Total									689.57	128,465.30	1,600.27	90,520.87	40,234.28	130,755.15	
	Components (%)									0.5%	98.2%	1.2%	69.2%	30.8%	100.0%	
	Unit Rate	each								6.91	1,287.06	16.03	906.90	403.10	1,310.00	

Miscellaneous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400(20)b Splices for 450mm x 450mm Piles Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
M02011	Structural Steel (Round Bar, SS400)	kg	5,762.10	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	125,613.78	0.00	87,929.65	37,684.13	125,613.78	
W0225	Grout (non-shrink)	m3	0.82	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	24.38	2,411.47	65.15	1,532.07	968.93	2,501.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		257.05	771.15	1,542.30	1,285.25	1,285.25	2,570.50	2.0%
	Total									691.43	128,796.40	1,607.45	90,746.96	40,348.32	131,095.28	
	Components (%)									0.5%	98.2%	1.2%	69.2%	30.8%	100.0%	
	Unit Rate	each								6.91	1,287.03	16.06	906.81	403.19	1,310.00	

Miscellaneous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400(21) Static Pile Load Test for φ1500mm Bored Piles Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
	Static Pile Load Test for φ1500mm Bored Piles	each	1.00	30.0%	15.0%	55.0%	45.0%	55.0%	92,700.00	27,810.00	13,905.00	50,985.00	41,715.00	50,985.00	92,700.00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		8,405.82	2,801.94	16,811.64	11,207.76	16,811.64	28,019.40	30.0%
	Total									36,913.82	16,706.94	67,796.64	52,922.76	68,494.64	121,417.40	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								36,786.92	16,649.51	67,563.57	52,740.83	68,259.17	121,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400(23)a High Strain Dynamic Pile Test for φ1000mm Bored Piles Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
	Dynamic Pile Load Test for φ1000mm Bored Piles	each	1.00	30.0%	15.0%	55.0%	45.0%	55.0%	94,000.00	28,200.00	14,100.00	51,700.00	42,300.00	51,700.00	94,000.00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		8,522.82	2,840.94	17,045.64	11,363.76	17,045.64	28,409.40	30.0%
	Total									37,420.82	16,940.94	68,745.64	53,663.76	69,443.64	123,107.40	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								37,388.17	16,926.16	68,685.67	53,616.94	69,383.06	123,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400(23)b High Strain Dynamic Pile Test for φ1200mm Bored Piles Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
	Dynamic Pile Load Test for φ1200mm Bored Piles	each	1.00	30.0%	15.0%	55.0%	45.0%	55.0%	96,000.00	28,800.00	14,400.00	52,800.00	43,200.00	52,800.00	96,000.00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		8,702.82	2,900.94	17,405.64	11,603.76	17,405.64	29,009.40	30.0%
	Total									38,200.82	17,300.94	70,205.64	54,803.76	70,903.64	125,707.40	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								38,289.74	17,341.21	70,369.05	54,931.32	71,068.68	126,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400(23)c High Strain Dynamic Pile Test for ϕ 800mm Bored Piles

Unit: 1.00 each

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		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
	Dynamic Pile Load Test for ϕ 800mm Bored Piles	each	1.00	30.0%	15.0%	55.0%	45.0%	55.0%	92,000.00	27,600.00	13,800.00	50,600.00	41,400.00	50,600.00	92,000.00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		8,342.82	2,780.94	16,685.64	11,123.76	16,685.64	27,809.40	30.0%
	Total									36,640.82	16,580.94	67,285.64	52,523.76	67,983.64	120,507.40	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								36,790.60	16,648.72	67,560.68	52,738.46	68,261.54	121,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400(24) Pile Integrity Test for Bored Piles of various diameter

Unit: 1.00 each

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		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	288.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
	Dynamic Pile Load Test for ϕ 1500mm Bored Piles	each	1.00	30.0%	15.0%	55.0%	45.0%	55.0%	125,000.00	37,500.00	18,750.00	68,750.00	56,250.00	68,750.00	125,000.00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		11,312.82	3,770.94	22,625.64	15,083.76	22,625.64	37,709.40	30.0%
	Total									49,510.82	22,520.94	91,375.64	71,333.76	92,073.64	163,407.40	
	Components (%)									30.3%	13.8%	55.9%	43.7%	56.3%	100.0%	
	Unit Rate	each								49,387.38	22,464.79	91,147.83	71,155.91	91,844.09	163,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

401(1)a Concrete Railing Type A (Concrete Posts and Precast Beams)

Unit: 10.00 m

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		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.13	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	45.09	1,464.10	298.80	1,026.33	781.67	1,808.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.11	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	45.16	0.56	240.66	128.97	157.41	286.38	
W0237	Concrete Curing (reinforced concrete)	m3	1.11	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.55	0.36	0.85	0.66	4.10	4.76	
W0241	Formwork (reinforced concrete H<4m)	m2	17.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,303.14	1,525.59	30.27	111.84	3,747.16	3,859.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	189.90	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	684.93	3,412.29	346.44	2,392.93	2,050.73	4,443.66	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	81.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	294.58	1,558.25	153.72	1,090.39	916.16	2,006.55	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,376.45	7,961.16	1,070.73	4,751.13	7,657.22	12,408.35	
	Components (%)									27.2%	64.2%	8.6%	38.3%	61.7%	100.0%	
	Unit Rate	m								337.42	795.58	107.00	474.79	765.21	1,240.00	

401(1)b Concrete Railing Type B (Concrete Wall Type)

Unit: 180.00 m

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		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	44.27	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	1,766.55	57,359.20	11,706.25	40,208.61	30,623.39	70,832.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	43.40	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	1,765.79	21.96	9,409.45	5,042.58	6,154.62	11,197.20	
W0237	Concrete Curing (reinforced concrete)	m3	43.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	138.95	14.17	33.07	25.98	160.21	186.19	
W0241	Formwork (reinforced concrete H<4m)	m2	340.90	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	46,184.70	30,592.67	606.94	2,242.78	75,141.52	77,384.30	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,786.50	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	13,657.12	68,039.23	6,907.75	47,713.77	40,890.33	88,604.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									63,513.10	156,027.23	28,663.46	95,233.72	152,970.07	248,203.79	
	Components (%)									25.6%	62.9%	11.5%	38.4%	61.6%	100.0%	
	Unit Rate	m								353.13	867.50	159.37	529.49	850.51	1,380.00	

401(2)a Steel Railing Type A for Angat and Talavera Bridge, and Approach of Pampanga Bridge

Unit: 30.00 m

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)
L002	Foreman	md	0.48	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	276.48	0.00	0.00	0.00	276.48	276.48	
L009	Welder	md	0.48	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	244.32	0.00	0.00	0.00	244.32	244.32	
L019	Skilled Labor	md	1.44	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	590.40	0.00	0.00	0.00	590.40	590.40	
L020	Unskilled Labor	md	0.96	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	307.20	0.00	0.00	0.00	307.20	307.20	
M02015	Structural Steel (Plates, SS400)	kg	301.50	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	6,090.30	0.00	4,263.21	1,827.09	6,090.30	
M02031	Steel Pipe	kg	1,342.50	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	32,085.75	0.00	22,460.03	9,625.73	32,085.75	
M02011	Structural Steel (Round Bar, SS400)	kg	35.50	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	773.90	0.00	541.73	232.17	773.90	
M06003	Zinc Rich Primer for Steel	kg	4.02	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	1,503.48	0.00	977.26	526.22	1,503.48	
M06011	Rustproof Lead Paint for Steel	kg	6.71	0.0%	100.0%	0.0%	65.0%	35.0%	209.00	0.00	1,402.39	0.00	911.55	490.84	1,402.39	
M06022	Epoxy Resin Paint for Steel	kg	4.56	0.0%	100.0%	0.0%	65.0%	35.0%	496.00	0.00	2,261.76	0.00	1,470.14	791.62	2,261.76	
R0901-025	Welding Machine 250A	day	0.48	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	112.33	169.91	165.35	116.89	588.00	
R1001-200	Generator 151-200 kW	day	0.48	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,206.37	1,328.03	1,505.96	1,028.44	2,534.40	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.74	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	206.40	123.84	1,041.39	625.13	706.51	1,331.64	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	0.53	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	32.46	45.49	158.97	115.81	121.10	236.91	
	Miscellaneous	LS	1.00	20.0%	20.0%	60.0%	50.0%	50.0%		2,995.27	2,995.27	8,985.81	7,488.18	7,488.18	14,976.35	30.0%
	Total									4,652.53	48,600.89	11,644.10	40,524.35	24,373.18	64,897.52	
	Components (%)									7.2%	74.9%	17.9%	62.4%	37.6%	100.0%	
	Unit Rate	m								154.85	1,617.60	387.55	1,348.78	811.22	2,160.00	

Miscellaneous covers the costs for fabricator's overhead, facilities, minor tools and materials, falseworks, etc.

401(2)b Steel Railing Type B for Pampanga Main Bridge

Unit: 20.35 m

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)
L002	Foreman	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	190.08	0.00	0.00	0.00	190.08	190.08	
L009	Welder	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	167.97	0.00	0.00	0.00	167.97	167.97	
L019	Skilled Labor	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	401.80	0.00	0.00	0.00	401.80	401.80	
L020	Unskilled Labor	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	208.00	0.00	0.00	0.00	208.00	208.00	
M02015	Structural Steel (Plates, SS400)	kg	1,068.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	21,573.60	0.00	15,101.52	6,472.08	21,573.60	
M02031	Steel Pipe	kg	312.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	7,473.53	0.00	5,231.47	2,242.06	7,473.53	
M02011	Structural Steel (Round Bar, SS400)	kg	37.90	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	826.22	0.00	578.35	247.87	826.22	
M06003	Zinc Rich Primer for Steel	kg	6.78	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	2,535.72	0.00	1,648.22	887.50	2,535.72	
M06011	Rustproof Lead Paint for Steel	kg	11.30	0.0%	100.0%	0.0%	65.0%	35.0%	209.00	0.00	2,361.70	0.00	1,535.11	826.60	2,361.70	
M06022	Epoxy Resin Paint for Steel	kg	7.68	0.0%	100.0%	0.0%	65.0%	35.0%	496.00	0.00	3,809.28	0.00	2,476.03	1,333.25	3,809.28	
R0901-025	Welding Machine 250A	day	0.33	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	77.23	116.81	113.68	80.36	194.01	
R1001-200	Generator 151-200 kW	day	0.33	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	829.38	913.02	1,035.35	707.05	1,742.40	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.88	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	141.62	84.97	687.09	428.92	484.76	913.68	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	0.45	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	27.56	38.62	134.97	98.33	102.82	201.15	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	12,779.75	30.0%
	Total									1,137.03	39,610.25	1,851.89	28,246.97	14,352.20	55,378.92	
	Components (%)									2.1%	71.5%	3.3%	51.0%	25.9%	100.0%	
	Unit Rate	m								55.85	1,945.50	90.96	1,387.38	704.92	2,720.00	

Miscellaneous covers the costs for fabricator's overhead, facilities, minor tools and materials, falseworks, etc.

SPL 401(3)a Bridge Name Plate, 1000 x 600 mm for Angat Bridge

Unit: 10.00 each

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)
L002	Foreman	md	0.43	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	247.68	0.00	0.00	0.00	247.68	247.68	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
M02501	Brass Plate	kg	1,068.00	0.0%	100.0%	0.0%	70.0%	30.0%	228.00	0.00	243,504.00	0.00	170,452.80	73,051.20	243,504.00	
M0225	Grout (non-shrink)	m ³	0.09	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.68	264.67	7.15	168.15	106.35	274.50	
R0602-002	Crane truck 2.0-5.0t	hr	0.88	14.7%	13.6%	71.7%	47.8%	52.2%	572.00	73.99	68.46	360.91	240.62	262.74	503.36	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,741.85	29,483.70	29,483.70	36,854.63	36,854.63	73,709.26	30.0%
	Total									16,234.20	273,320.84	29,851.77	207,716.20	111,690.60	319,406.80	
	Components (%)									5.1%	85.6%	9.3%	65.0%	35.0%	100.0%	
	Unit Rate	each								1,621.35	27,297.27	2,981.37	20,745.17	11,154.83	31,909.00	

Miscellaneous covers the cost for overhead of fabricators, anchors, fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm
Unit Weight = 8,900 kg/m³

SPL 401(3)b Bridge Name Plate, 1000 x 600 mm for Pampanga Bridge

Unit: 10.00 each

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		
L002	Foreman	md	0.43	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	247.68	0.00	0.00	0.00	247.68	247.68	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
W02501	Brass Plate	kg	1,068.00	0.0%	100.0%	0.0%	70.0%	30.0%	228.00	0.00	243,504.00	0.00	170,452.80	73,051.20	243,504.00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.68	264.67	7.15	168.15	106.35	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	0.88	14.7%	13.6%	71.7%	47.8%	52.2%	572.00	73.99	68.46	360.91	240.62	262.74	503.36	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,741.85	29,483.70	29,483.70	36,854.63	36,854.63	73,709.26	30.0%
Total										16,234.20	273,320.84	29,851.77	207,716.20	111,690.60	319,406.80	
Components (%)										5.1%	85.6%	9.3%	65.0%	35.0%	100.0%	
Unit Rate			each							1,621.35	27,297.27	2,981.37	20,745.17	11,154.83	31,900.00	

Miscellaneous covers the cost for overhead of fabricators, anchors, fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm
Unit Weight = 8,900 kg/m3

SPL 401(3)c Bridge Name Plate, 1000 x 600 mm for Talavera Bridge

Unit: 10.00 each

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		
L002	Foreman	md	0.43	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	247.68	0.00	0.00	0.00	247.68	247.68	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
W02501	Brass Plate	kg	1,068.00	0.0%	100.0%	0.0%	70.0%	30.0%	228.00	0.00	243,504.00	0.00	170,452.80	73,051.20	243,504.00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.68	264.67	7.15	168.15	106.35	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	0.88	14.7%	13.6%	71.7%	47.8%	52.2%	572.00	73.99	68.46	360.91	240.62	262.74	503.36	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,741.85	29,483.70	29,483.70	36,854.63	36,854.63	73,709.26	30.0%
Total										16,234.20	273,320.84	29,851.77	207,716.20	111,690.60	319,406.80	
Components (%)										5.1%	85.6%	9.3%	65.0%	35.0%	100.0%	
Unit Rate			each							1,621.35	27,297.27	2,981.37	20,745.17	11,154.83	31,900.00	

Miscellaneous covers the cost for overhead of fabricators, anchors, fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm
Unit Weight = 8,900 kg/m3

SPL 401(3)d Bridge Name Plate, 1000 x 600 mm for Interchange Ramp

Unit: 10.00 each

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		
L002	Foreman	md	0.43	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	247.68	0.00	0.00	0.00	247.68	247.68	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
W02501	Brass Plate	kg	1,068.00	0.0%	100.0%	0.0%	70.0%	30.0%	228.00	0.00	243,504.00	0.00	170,452.80	73,051.20	243,504.00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.68	264.67	7.15	168.15	106.35	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	0.88	14.7%	13.6%	71.7%	47.8%	52.2%	572.00	73.99	68.46	360.91	240.62	262.74	503.36	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,741.85	29,483.70	29,483.70	36,854.63	36,854.63	73,709.26	30.0%
Total										16,234.20	273,320.84	29,851.77	207,716.20	111,690.60	319,406.80	
Components (%)										5.1%	85.6%	9.3%	65.0%	35.0%	100.0%	
Unit Rate			each							1,621.35	27,297.27	2,981.37	20,745.17	11,154.83	31,900.00	

Miscellaneous covers the cost for overhead of fabricators, anchors, fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm
Unit Weight = 8,900 kg/m3

403(3) Structural Steel for Pampanga River Bridge, furnished and fabricated

Unit: 1,707,860.00 kg

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		
L002	Foreman	md	320.47	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	184,590.72	0.00	0.00	0.00	184,590.72		
L009	Welder	md	1,281.90	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	652,487.10	0.00	0.00	0.00	652,487.10		
L010	Painter	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	0.00	0.00	0.00	0.00	0.00		
L019	Skilled Labor	md	1,922.85	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	788,368.50	0.00	0.00	0.00	788,368.50		
M02017	Structural Steel (Plates SMA490W)	kg	1,844,488.80	0.0%	100.0%	0.0%	75.0%	25.0%	45.00	0.00	83,001,996.00	0.00	62,251,497.00	20,750,499.00	83,001,996.00	Loss 8.0%
M02072	High Tension Bolt M20	each	85,400.00	0.0%	100.0%	0.0%	70.0%	30.0%	29.20	0.00	2,493,680.00	0.00	1,745,576.00	748,104.00	2,493,680.00	
M06001	Etching (Primer for Steel)	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	274.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 3.0%
M06011	Rustproof Lead Paint for Steel	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	209.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 3.0%
M06011	Rustproof Lead Paint for Steel	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	209.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 3.0%
R0901-050	Welding Machine 500A	day	1,281.90	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	1,138,173.37	746,219.63	1,142,632.84	741,760.16	1,884,393.00	
R0402-080	Truck Crane, Hydraulic 71-80t	hr	100.46	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	7,426.00	12,995.51	288,995.29	165,548.11	143,868.69	309,416.80	
R0604-020	Trailer 20t	hr	421.94	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	27,480.95	75,396.46	601,762.39	375,616.70	329,023.10	704,639.80	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	50.0%	50.0%	1,800,391.44	1,800,391.44	10,802,348.63	23,405,088.70	18,003,914.38	18,003,914.38	36,007,828.77	40.0%
Total										3,460,744.71	97,524,589.97	25,042,066.01	83,684,785.03	42,342,615.66	126,027,400.69	
Components (%)										2.7%	77.4%	19.9%	66.4%	33.6%	100.0%	
Unit Rate			kg							2.03	57.11	14.66	49.00	24.80	73.80	

Miscellaneous covers the cost for overhead & facilities of fabricators, electricity and fuel consumption, welding rods, acetylene gas, etc.
 Total Steel Weight = 1,707.86 t Haulage time = 2 x L/V + a = 4.20 hr/trip
 Welding Length = 3.19 m/t a : Loading Time = 1.00 hr
 $y = \alpha \cdot (0.013 \cdot L + 6.0)$, ($9 \leq y \leq 17$) L : Haulage Distance = 40.00 km
 y : Daily Welding Capacity V : Traveling Speed = 25.00 km/hr
 L : Welding Length = 5,448.07 m
 α : Coefficient = 1.00
 Paint Area = 8.54 m²/t
 Primer = 0.130 kg/m²
 Rustproof-1 = 0.170 kg/m²
 Rustproof-2 = 0.170 kg/m²

403(5) Structural Steel for Pampanga River Bridge, erected

Unit: 1,707,860.00 kg

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		
W0501	Ground Assembly of Structural Steel Bridge Members	t	1,196.00	11.6%	3.1%	85.3%	48.2%	51.8%	1,270.00	176,138.71	46,570.93	1,296,210.37	731,497.82	787,422.18	1,518,920.00	
W0502	Erection of Structural Steel Bridge Members	t	1,707.90	11.0%	4.8%	84.2%	48.3%	51.7%	1,290.00	241,760.82	105,622.84	1,855,807.34	1,063,908.28	1,139,282.72	2,203,191.00	
W0503	Bolting of Structural Steel Bridge Members	each	27,326.00	4.5%	93.2%	2.3%	66.1%	33.9%	43.70	53,924.61	1,112,664.37	27,557.22	788,969.37	405,176.83	1,194,146.20	
W0504	Finish Painting of Structural Steel Bridge Members	m ²	0.00	42.5%	48.4%	9.1%	36.1%	63.9%	133.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0505	Temporary Bent for Steel Bridge Erection	t	556.70	4.6%	91.2%	4.2%	48.3%	51.7%	16,000.00	407,650.04	8,127,737.95	371,812.01	4,300,002.25	4,607,197.75	8,907,290.00	
W0506	Site Welding for Steel Bridge	m	446.50	23.7%	34.5%	41.9%	44.3%	55.7%	3,130.00	330,819.62	481,642.79	585,082.60	618,854.41	778,690.59	1,397,545.00	
	Miscellaneous	LS	1.00	0.0%	35.0%	65.0%	55.0%	45.0%	0.00	0.00	1,598,205.23	2,968,095.43	2,511,465.36	2,054,835.30	4,566,300.66	30.0%
Total										1,210,293.79	11,472,444.10	7,104,564.96	10,014,697.50	9,772,605.36	19,787,302.86	
Components (%)										6.1%	58.0%	35.9%	50.6%	49.4%	100.0%	
Unit Rate			kg							0.71	6.73	4.16	5.87	5.73	11.60	

Miscellaneous covers the cost for temporary scaffolding, supports, safety measures, etc.

403(8)a Bearing Shoe for Steel Plate Girder Type I (Max. R=250t) in Pampanga Bridge

Unit: 1.00 each

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		
L002	Foreman	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	236.16	0.00	0.00	0.00	236.16	236.16	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	672.40	0.00	0.00	0.00	672.40	672.40	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	131.20	0.00	0.00	0.00	131.20	131.20	
W09104	Bearing Shoe (rubber enclosed type), 250t	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	291,000.00	0.00	291,000.00	0.00	203,700.00	87,300.00	291,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.17	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	87.14	105.81	1,363.14	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m ³	0.06	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	1.78	176.45	4.77	112.10	70.90	183.00	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	2,937.79	2,937.79	3,231.57	2,644.01	5,875.58	2.0%
Total										1,129.69	294,220.65	4,305.70	207,852.24	91,802.19	299,654.44	
Components (%)										0.4%	96.2%	1.4%	69.4%	30.6%	100.0%	
Unit Rate			each							1,129.99	294,559.35	4,310.65	208,091.94	91,908.06	300,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.
 $y = N / [0.2 \cdot a \cdot (N+8)]$ N : Total number of sheets = 22
 y : Work capacity a : Coefficient = 1.50

403(8)b Bearing Shoe for Steel Plate Girder Type 2 (Max. R=650t) in Pampanga Bridge Unit: 1.00 each

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		
L002	Foreman	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	236.16	0.00	0.00	0.00	236.16	236.16	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	672.40	0.00	0.00	0.00	672.40	672.40	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	131.20	0.00	0.00	0.00	131.20	131.20	
M09106	Bearing Shoe (rubber enclosed type), 650t	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	764,000.00	0.00	764,000.00	0.00	534,800.00	229,200.00	764,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.17	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	87.14	105.81	1,363.14	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m3	0.07	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.08	205.86	5.56	130.79	82.71	213.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	7,668.09	7,668.09	8,434.90	6,901.28	15,336.19	2.0%
Total										1,128.98	771,979.77	9,036.80	544,174.26	237,971.28	782,145.55	
Components (%)										0.1%	98.7%	1.2%	69.6%	30.4%	100.0%	
Unit Rate			each							1,128.77	771,836.11	9,035.12	544,073.00	237,927.00	782,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.
 $v = N/[0.2 \cdot a \cdot (N+8)]$ N: Total number of shoes 22
 v : Work capacity = 2.44 each/day a: Coefficient 1.50

403(8)c Bearing Shoe for Steel Plate Girder Type 3 (Max. R=650t) in Pampanga Bridge Unit: 1.00 each

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		
L002	Foreman	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	236.16	0.00	0.00	0.00	236.16	236.16	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	672.40	0.00	0.00	0.00	672.40	672.40	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	131.20	0.00	0.00	0.00	131.20	131.20	
M09108	Bearing Shoe (rubber enclosed type), 650t	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	764,000.00	0.00	764,000.00	0.00	534,800.00	229,200.00	764,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.17	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	87.14	105.81	1,363.14	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m3	0.07	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	2.08	205.86	5.56	130.79	82.71	213.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	7,668.09	7,668.09	8,434.90	6,901.28	15,336.19	2.0%
Total										1,128.98	771,979.77	9,036.80	544,174.26	237,971.28	782,145.55	
Components (%)										0.1%	98.7%	1.2%	69.6%	30.4%	100.0%	
Unit Rate			each							1,128.77	771,836.11	9,035.12	544,073.00	237,927.00	782,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.
 $v = N/[0.2 \cdot a \cdot (N+8)]$ N: Total number of shoes 22
 v : Work capacity = 2.44 each/day a: Coefficient 1.50

SPL 403(9) Steel Grating for Sunlight Opening in Underpasses Unit: 10.00 m2

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		
L002	Foreman	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	328.32	0.00	0.00	0.00	328.32	328.32	
L009	Welder	md	1.91	100.0%	0.0%	0.0%	0.0%	100.0%	508.00	972.19	0.00	0.00	0.00	972.19	972.19	
L019	Skilled Labor	md	1.91	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	783.10	0.00	0.00	0.00	783.10	783.10	
L020	Unskilled Labor	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	304.00	0.00	0.00	0.00	304.00	304.00	
M02012	Structural Steel (Flat Bar, SS400)	kg	1,284.43	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	29,156.56	0.00	20,409.59	8,746.97	29,156.56	Loss 7.0%
M02014	Structural Steel (Shapes, SS400)	kg	623.06	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	10,965.86	0.00	7,676.10	3,289.76	10,965.86	Loss 7.0%
R0901-025	Welding Machine 250A	day	1.91	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	446.99	676.09	657.96	465.12	1,123.08	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.10	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	7.10	8.63	111.12	65.91	60.94	126.85	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.67	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	40.87	72.44	291.37	205.15	199.53	404.68	
	Miscellaneous	LS	1.00	10.0%	35.0%	55.0%	50.0%	50.0%		1,324.94	4,637.29	7,287.17	6,624.70	6,624.70	13,249.39	30.0%
Total										3,760.53	45,287.76	8,365.75	35,639.42	21,774.62	57,414.03	
Components (%)										6.5%	78.9%	14.6%	62.1%	37.9%	100.0%	
Unit Rate			m2							375.96	4,527.67	836.37	3,563.07	2,176.93	5,740.00	

Miscellaneous covers the cost for fabricator's overhead & facilities, painting or galvanizing, etc.

404(1) Reinforcement Steel Grade 40

Unit: 1,000.00 kg

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	1,886.00	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	1,024.00	1,024.00	
M02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	17,120.00	0.00	11,128.00	5,992.00	17,120.00	Loss 7.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	771.74	1,157.61	1,061.15	868.21	1,929.36	9.0%
Total										3,601.65	17,943.29	1,821.71	12,583.07	10,783.59	23,366.65	
Components (%)										15.4%	76.8%	7.8%	53.9%	46.1%	100.0%	
Unit Rate			kg							3.61	17.97	1.82	12.60	10.80	23.40	

Miscellaneous covers the cost for bar cutter, bar bender, binding wire, spacer, etc.

404(2) Reinforcement Steel Grade 60

Unit: 1,000.00 kg

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	1,886.00	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	1,024.00	1,024.00	
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00	Loss 7.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	810.26	1,215.39	1,114.11	911.55	2,025.66	9.0%
Total										3,601.65	19,051.81	1,879.49	13,331.53	11,201.43	24,532.96	
Components (%)										14.7%	77.7%	7.7%	54.3%	45.7%	100.0%	
Unit Rate			kg							3.60	19.03	1.88	13.31	11.19	24.50	

Miscellaneous covers the cost for bar cutter, bar bender, binding wire, spacer, etc.

405(1)a Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for heavily reinforced structures

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.20	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	407.02	13,215.81	2,697.17	9,264.24	7,055.76	16,320.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0241	Formwork (reinforced concrete H<4m)	m2	49.20	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	6,665.55	4,415.25	87.60	323.69	10,844.71	11,168.40	
W0441	Temporary Frame Support Installation & Removal	m3	20.00	59.4%	3.9%	36.7%	22.3%	77.7%	53.10	630.68	41.33	389.99	236.70	825.30	1,062.00	
W0442	Temporary Frame Support Depreciation	m3-d	560.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	410.92	15.80	213.36	213.36	426.72	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,142.14	18,091.63	5,366.26	11,205.86	20,394.16	31,600.02	
Components (%)										25.8%	57.3%	17.0%	35.5%	64.5%	100.0%	
Unit Rate			m3							814.21	1,809.16	536.63	1,120.59	2,039.41	3,160.00	

Depreciation period for temporary support = 28 days

405(1)b Structural Concrete Class A (fc'=21MPa, max. aggregate 38mm) for small & medium bridges substructures

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.20	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	407.02	13,215.81	2,697.17	9,264.24	7,055.76	16,320.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0241	Formwork (reinforced concrete H<4m)	m2	14.90	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,018.63	1,337.14	26.53	98.03	3,284.27	3,382.30	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,864.53	14,561.27	4,899.40	10,530.14	11,795.06	22,325.20	
Components (%)										12.8%	65.2%	21.9%	47.2%	52.8%	100.0%	
Unit Rate			m3							286.13	1,454.48	489.39	1,051.83	1,178.17	2,230.00	

405(1)c Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges RCDG superstructures Unit: 10.00 m3

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		
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	10.20	2.4%	82.1%	15.5%	56.9%	43.1%	1,670.00	402.42	13,990.56	2,641.02	9,696.92	7,337.08	17,034.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0441	Temporary Frame Support Installation & Removal	m3	102.30	59.4%	3.9%	36.7%	22.3%	77.7%	53.10	3,225.95	211.38	1,994.80	1,210.74	4,221.39	5,432.13	
W0442	Temporary Frame Support Depreciation	m3-d	6.138.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	4,503.93	173.23	2,338.58	2,338.58	4,677.16	
W0241	Formwork (reinforced concrete H<4m)	m2	50.10	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	6,787.48	4,496.02	89.26	329.61	11,043.09	11,372.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										10,854.74	23,210.21	7,073.94	14,743.73	26,395.16	41,138.89	
Components (%)										26.4%	56.4%	17.2%	35.8%	64.2%	100.0%	
Unit Rate										1,084.45	2,318.83	706.73	1,472.98	2,637.02	4,110.00	

Depreciation period for temporary support = 60 days

405(1)d Structural Concrete Class A1 (fc'=21MPa, max. aggregate 20mm) for small & medium bridges PCDG superstructures Unit: 10.00 m3

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		
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	10.20	2.4%	82.1%	15.5%	56.9%	43.1%	1,670.00	402.42	13,990.56	2,641.02	9,696.92	7,337.08	17,034.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0411	Temporary Struts & Supports Installation	t	2.60	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	1,238.47	342.96	2,058.57	1,334.09	2,305.91	3,640.00	
W0412	Temporary Struts & Supports Removal	t	2.60	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	772.59	197.12	1,196.09	769.05	1,396.75	2,165.80	
W05041	Temporary Steel Shapes Depreciation	t-d	156.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	4,882.80	0.00	2,441.40	2,441.40	4,882.80	
W0241	Formwork (reinforced concrete H<4m)	m2	42.60	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	5,771.39	3,822.96	75.84	280.27	9,389.93	9,670.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,623.76	23,244.72	8,147.22	15,689.61	24,326.09	40,015.70	
Components (%)										21.6%	58.1%	20.4%	39.2%	60.8%	100.0%	
Unit Rate										862.04	2,323.56	814.40	1,568.35	2,431.65	4,000.00	

Depreciation period for temporary support = 60 days

405(1)e Structural Concrete Class AA1 (fc'=28MPa, max. aggregate 25) for long bridge substructures Unit: 10.00 m3

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		
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	10.20	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	405.79	14,743.04	2,701.17	10,303.72	7,546.28	17,850.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0241	Formwork (reinforced concrete H<4m)	m2	13.10	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,774.77	1,175.61	23.32	86.18	2,887.52	2,973.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,619.44	15,926.97	4,900.19	11,557.78	11,888.82	23,446.60	
Components (%)										11.2%	67.9%	20.9%	49.3%	60.7%	100.0%	
Unit Rate										261.42	1,589.53	489.05	1,153.48	1,186.52	2,340.00	

405(1)f Structural Concrete Class AA2 (fc'=28MPa, max. aggregate 20mm) for long bridge superstructures Unit: 10.00 m3

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		
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	10.20	2.1%	83.8%	14.0%	57.9%	42.1%	1,830.00	398.45	15,646.67	2,620.88	10,808.79	7,857.21	18,666.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0411	Temporary Struts & Supports Installation	t	2.90	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	1,381.37	382.53	2,296.10	1,488.03	2,571.97	4,060.00	
W0412	Temporary Struts & Supports Removal	t	2.90	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	861.74	219.85	1,334.10	857.79	1,557.91	2,415.70	
W05041	Temporary Steel Shapes Depreciation	t-d	174.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	5,446.20	0.00	2,723.10	2,723.10	5,446.20	
W0241	Formwork (reinforced concrete H<4m)	m2	49.20	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	6,665.55	4,415.25	87.60	323.69	10,844.71	11,168.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										9,745.99	26,118.84	8,514.37	17,369.27	27,009.93	44,379.20	
Components (%)										22.0%	58.9%	19.2%	39.1%	60.9%	100.0%	
Unit Rate										975.06	2,613.11	851.84	1,737.74	2,702.26	4,440.00	

Depreciation period for temporary support = 60 days

405(2) Structural Concrete Class B (fc'=17MPa, max. aggregate 50mm) for plain or lightly reinforced structures Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	10.20	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	415.72	10,744.10	2,814.19	7,847.92	6,126.08	13,974.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	408.08	4.20	1,727.72	926.01	1,213.99	2,140.00	
W0236	Concrete Curing (plain concrete)	m3	10.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	63.97	7.87	18.36	14.43	75.77	90.23	
W0241	Formwork (reinforced concrete H<4m)	m2	33.30	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,511.44	2,988.37	59.29	219.08	7,340.02	7,559.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									5,399.21	13,744.53	4,619.55	9,007.44	14,755.86	23,763.30	
	Components (%)									22.7%	57.8%	19.4%	37.9%	62.1%	100.0%	
	Unit Rate	m3								540.76	1,376.58	462.67	902.14	1,477.86	2,380.00	

405(3) Structural Concrete Class C (fc'=21MPa, max. aggregate 12mm) for thin reinforced members Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	10.20	2.3%	82.7%	15.0%	57.0%	43.0%	1,700.00	399.23	14,343.22	2,597.55	9,884.26	7,455.74	17,340.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	406.86	5.06	2,168.08	1,161.88	1,418.12	2,580.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0241	Formwork (reinforced concrete H<4m)	m2	25.80	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,495.31	2,315.31	45.93	169.74	5,686.86	5,856.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,333.46	16,666.85	4,819.18	11,221.87	14,597.63	25,819.50	
	Components (%)									16.8%	64.6%	18.7%	43.5%	56.5%	100.0%	
	Unit Rate	m3								433.02	1,665.43	481.55	1,121.34	1,458.66	2,580.00	

405(4)b Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed box girders in Angat Bridge Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	10.20	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	400.73	18,606.25	2,617.02	12,610.88	9,013.12	21,624.00	Loss 2.0%
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	10.00	29.5%	0.2%	70.3%	37.7%	62.3%	511.00	1,506.08	10.02	3,593.90	1,927.12	3,182.88	5,110.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	32.01	3.27	7.62	5.99	36.91	42.90	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	31.60	63.0%	21.4%	15.6%	11.3%	88.7%	473.00	9,417.07	3,194.36	2,335.37	1,688.32	13,258.48	14,946.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									11,358.89	21,813.90	8,553.91	16,232.30	25,491.40	41,723.70	
	Components (%)									27.2%	52.3%	20.5%	38.9%	61.1%	100.0%	
	Unit Rate	m3								1,134.94	2,180.15	854.91	1,622.31	2,547.69	4,170.00	

405(4)c Structural Concrete Class PP (41MPa, max. agg. 20mm) for prestressed hollow slab girders Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	
L005	Carpenter	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	2,164.80	0.00	0.00	0.00	2,164.80	2,164.80	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	328.00	328.00	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	328.00	328.00	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,472.00	0.00	0.00	0.00	1,472.00	1,472.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	10.20	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	400.73	18,606.25	2,617.02	12,610.88	9,013.12	21,624.00	Loss 2.0%
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.50	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	1,095.00	585.05	509.95	1,095.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	44.00	47.6%	33.4%	19.1%	13.5%	86.5%	285.00	5,963.92	4,182.92	2,393.17	1,698.57	10,841.43	12,540.00	
W0441	Temporary Frame Support Installation & Removal	m3	81.50	59.4%	3.9%	36.7%	22.3%	77.7%	53.10	2,570.04	168.40	1,589.21	964.57	3,363.08	4,327.65	
W0442	Temporary Frame Support Depreciation	m3-d	4,890.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	3,588.17	138.01	1,863.09	1,863.09	3,726.18	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									13,745.89	26,545.74	7,832.40	17,722.16	30,401.87	48,124.03	
	Components (%)									28.6%	55.2%	16.3%	36.8%	63.2%	100.0%	
	Unit Rate	m3								1,373.90	2,653.25	782.85	1,771.33	3,038.67	4,810.00	

Depreciation period for temporary support = 60 days

405(6) Lean Concrete (17MPa, max. agg. 38mm), poured Unit: 10.00 m3

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)
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	10.20	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	406.02	11,993.49	2,696.49	8,530.28	6,565.72	15,096.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	408.08	4.20	1,727.72	926.01	1,213.99	2,140.00	
W0236	Concrete Curing (plain concrete)	m3	10.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	63.97	7.87	18.36	14.43	75.77	90.20	
W0243	Formwork (lean concrete)	m2	12.50	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	796.49	1,101.01	15.00	72.68	1,839.82	1,912.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,674.57	13,186.56	4,457.57	9,543.39	9,695.31	19,238.70	
	Components (%)									8.7%	68.1%	23.2%	49.6%	50.4%	100.0%	
	Unit Rate	m3								167.12	1,308.02	444.86	952.42	967.58	1,920.00	

406(1)a Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=20m), fabricated & erected Unit: 1.00 each

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)
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	11.59	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	465.34	21,141.81	2,973.65	14,329.42	10,241.38	24,570.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	11.36	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	463.58	4.77	1,962.69	1,051.95	1,379.09	2,431.04	
W0237	Concrete Curing (reinforced concrete)	m3	11.36	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	36.37	3.71	8.66	6.80	41.93	48.73	
W0241	Formwork (reinforced concrete H<4m)	m2	62.46	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	8,462.00	5,605.22	111.20	410.92	13,767.50	14,178.42	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	761.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	2,744.77	13,674.33	1,388.30	9,589.38	8,218.02	17,807.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	959.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,449.35	18,246.14	1,800.01	12,767.76	10,727.74	23,495.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	40.80	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	2,666.98	51,886.72	118.30	36,004.51	18,667.49	54,672.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	28.40	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	942.41	220.98	4,914.20	2,815.05	3,262.55	6,077.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									21,570.71	148,754.64	13,787.14	105,583.27	78,529.22	184,112.49	
	Components (%)									11.7%	80.8%	7.5%	57.3%	42.7%	100.0%	
	Unit Rate	each								21,557.53	148,663.76	13,778.72	105,518.76	78,481.24	184,000.00	

406(1)b Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=22m), fabricated & erected Unit: 1.00 each

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)
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	12.63	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	496.20	23,038.92	3,240.49	15,615.23	11,180.37	26,775.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	12.38	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	505.21	5.19	2,138.92	1,146.40	1,502.92	2,649.32	
W0237	Concrete Curing (reinforced concrete)	m3	12.38	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	39.63	4.04	9.43	7.41	45.70	53.11	
W0241	Formwork (reinforced concrete H<4m)	m2	68.53	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	9,284.36	6,149.94	122.01	450.86	15,105.45	15,556.31	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	804.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	2,899.86	14,446.99	1,466.74	10,131.22	8,682.38	18,813.60	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,045.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,758.67	19,882.40	1,961.43	13,912.74	11,689.76	25,602.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	44.88	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	2,933.68	57,075.39	130.13	39,604.96	20,534.24	60,139.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	30.95	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	1,027.03	240.82	5,355.45	3,067.81	3,555.49	6,623.30	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									23,294.55	158,814.67	14,934.72	112,544.11	84,499.83	197,043.94	
	Components (%)									11.8%	80.6%	7.6%	57.1%	42.9%	100.0%	
	Unit Rate	each								23,289.35	158,779.26	14,931.39	112,519.01	84,480.99	197,000.00	

406(1)c Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=24m), fabricated & erected										Unit: 1.00 each						
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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	13.67	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	537.06	24,936.02	3,507.32	16,901.05	12,079.35	28,980.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.40	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	546.83	5.62	2,315.15	1,240.85	1,626.75	2,867.60	
W0237	Concrete Curing (reinforced concrete)	m3	13.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	42.90	4.38	10.21	8.02	49.47	57.49	
W0241	Formwork (reinforced concrete H4m)	m2	74.65	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	10,113.49	6,699.16	132.91	491.12	16,454.43	16,945.55	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	879.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	3,170.37	15,794.66	1,603.57	11,076.30	9,492.30	20,568.60	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,154.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	4,150.72	21,956.26	2,166.02	15,363.92	12,909.08	28,273.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	48.96	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	3,200.37	62,264.06	141.96	43,205.41	22,400.99	65,606.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	24.48	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	1,492.62	26,354.05	60.53	18,273.89	9,633.31	27,907.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	1.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	475.25	18,942.96	181.80	14,244.96	5,355.04	19,600.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	33.50	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	1,111.65	260.66	5,796.69	3,320.57	3,848.43	7,169.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										27,191.17	215,188.81	16,426.27	152,733.58	106,072.66	258,806.24	
Components (%)										10.5%	83.1%	6.3%	59.0%	41.0%	100.0%	
Unit Rate										27,211.53	215,349.91	16,438.56	152,847.92	106,152.08	259,000.00	

406(1)d Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV L=25m), fabricated & erected										Unit: 1.00 each						
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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	14.19	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	557.49	25,884.58	3,640.74	17,543.95	12,538.85	30,082.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.91	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	567.64	5.84	2,403.26	1,288.08	1,688.66	2,976.74	
W0237	Concrete Curing (reinforced concrete)	m3	13.91	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	44.53	4.54	10.60	8.33	51.34	59.67	
W0241	Formwork (reinforced concrete H4m)	m2	77.71	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	10,528.05	6,973.76	138.35	511.25	17,128.92	17,640.17	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	918.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	3,311.04	16,495.45	1,674.72	11,567.74	9,913.46	21,481.20	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,177.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	4,233.45	22,393.86	2,209.19	15,670.13	13,166.37	28,836.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	51.00	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	3,333.72	64,858.40	147.88	45,005.63	23,334.37	68,340.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	25.50	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	1,554.81	27,452.14	63.05	19,035.30	10,034.70	29,070.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	1.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	475.25	18,942.96	181.80	14,244.96	5,355.04	19,600.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	34.78	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	1,154.12	270.62	6,018.17	3,447.45	3,995.47	7,442.92	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										28,110.01	221,253.12	16,997.87	156,930.31	109,430.69	266,361.00	
Components (%)										10.6%	83.1%	6.4%	58.9%	41.1%	100.0%	
Unit Rate										28,071.91	220,953.25	16,974.83	156,717.62	109,282.38	266,000.00	

406(i)e Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=30m), fabricated & erected										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	18.78	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	737.82	34,257.39	4,818.40	23,218.85	16,594.75	39,813.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.41	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	751.28	7.72	3,180.73	1,704.78	2,234.96	3,939.74	
W0237	Concrete Curing (reinforced concrete)	m3	18.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	58.94	6.01	14.03	11.02	67.96	78.98	
W0241	Formwork (reinforced concrete H<4m)	m2	94.89	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	12,855.58	8,515.51	168.94	624.28	20,915.75	21,540.03	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,156.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	4,169.45	20,772.05	2,108.90	14,566.78	12,483.62	27,050.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,471.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	5,290.92	27,987.57	2,761.02	19,584.34	16,455.16	36,039.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	61.20	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	4,000.47	77,830.08	177.45	54,006.76	28,001.24	82,008.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	61.20	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	3,731.54	65,885.13	151.33	45,684.72	24,083.28	69,768.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	46.03	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	1,296.73	309.35	15,793.26	8,778.36	8,620.98	17,399.34	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										36,193.12	311,427.70	30,047.77	225,277.30	152,391.29	377,668.59	
Components (%)										9.6%	82.5%	8.0%	59.6%	40.4%	100.0%	
Unit Rate			each							36,224.88	311,700.99	30,074.13	225,474.99	152,525.01	378,000.00	

406(i)f Precast Prestressed Structural Concrete Members (AASHTO Girder Type IV-B L=31m), fabricated & erected										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	19.36	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	760.60	35,315.39	4,967.21	23,935.94	17,107.26	41,043.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.98	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	774.54	7.96	3,279.21	1,757.57	2,304.15	4,061.72	
W0237	Concrete Curing (reinforced concrete)	m3	18.98	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	60.76	6.20	14.46	11.36	70.06	81.42	
W0241	Formwork (reinforced concrete H<4m)	m2	97.95	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	13,270.14	8,790.12	174.39	644.41	21,590.24	22,234.65	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,199.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	4,324.54	21,544.71	2,187.35	15,108.63	12,947.97	28,056.60	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,452.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	5,222.58	27,626.07	2,725.35	19,331.38	16,242.62	35,574.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	63.24	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	4,133.82	80,424.42	183.37	55,806.98	28,934.62	84,741.60	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	63.24	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	3,855.93	68,081.31	156.37	47,207.55	24,886.05	72,093.60	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	47.45	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	1,336.73	318.90	16,280.47	9,049.17	8,886.93	17,936.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										37,040.04	317,971.95	30,841.90	229,950.39	155,903.50	385,853.89	
Components (%)										9.6%	82.4%	8.0%	59.6%	40.4%	100.0%	
Unit Rate			each							37,054.07	318,092.36	30,853.57	230,037.47	155,962.53	386,000.00	

406(1)g Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=29.4m), fabricated & erected

Unit: 1.00 each

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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	21.52	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	845.46	39,255.54	5,521.40	26,606.47	19,015.93	45,622.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	21.10	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	861.05	8.85	3,645.49	1,953.88	2,561.52	4,515.40	
W0237	Concrete Curing (reinforced concrete)	m3	21.10	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	67.55	6.89	16.08	12.63	77.89	90.52	
W0241	Formwork (reinforced concrete H<4m)	m2	116.31	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	15,757.53	10,437.76	207.08	765.20	25,637.17	26,402.37	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	0.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	0.00	0.00	0.00	0.00	0.00	0.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	4,387.67	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	15,781.64	83,480.78	8,235.50	58,415.79	49,082.13	107,497.92	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	59.98	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	3,920.72	76,278.56	173.91	52,930.15	27,443.05	80,373.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cabl	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	59.98	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	3,657.15	64,571.74	148.31	44,774.01	23,603.19	68,377.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cabl	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	52.75	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	1,486.04	354.52	18,098.94	10,059.93	9,879.57	19,939.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										45,677.56	350,251.52	36,920.43	252,615.48	180,234.03	432,849.51	
Components (%)										10.6%	80.9%	8.5%	58.4%	41.6%	100.0%	
Unit Rate			each							45,693.44	350,373.30	36,933.27	252,703.31	180,296.69	433,000.00	

406(1)h Precast Prestressed Structural Concrete Member (AASHTO Girder Type V L=29.55m), fabricated & erected

Unit: 1.00 each

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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	21.62	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	849.39	39,437.95	5,547.06	26,730.11	19,104.29	45,834.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	21.20	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	865.14	8.90	3,662.77	1,963.14	2,573.66	4,536.80	
W0237	Concrete Curing (reinforced concrete)	m3	21.20	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	67.87	6.92	16.15	12.69	78.26	90.95	
W0241	Formwork (reinforced concrete H<4m)	m2	116.92	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	15,840.17	10,492.50	208.16	769.22	25,771.62	26,540.84	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	0.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	0.00	0.00	0.00	0.00	0.00	0.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	4,396.75	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	15,814.28	83,653.44	8,252.54	58,536.60	49,183.65	107,720.25	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	60.28	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	3,940.33	76,660.08	174.78	53,194.89	27,580.31	80,775.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cabl	2.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	986.31	37,837.27	376.42	28,460.41	10,739.59	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	60.28	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	3,675.45	64,894.70	149.05	44,997.96	23,721.24	68,719.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cabl	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	53.00	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	1,493.09	356.20	18,184.72	10,107.61	9,926.39	20,034.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0
Total										45,846.11	351,367.58	37,068.95	253,409.63	180,873.01	434,282.64	
Components (%)										10.6%	80.9%	8.5%	58.4%	41.6%	100.0%	
Unit Rate			each							45,816.28	351,138.90	37,044.82	253,244.70	180,755.30	434,000.00	

406(1)j Precast Prestressed Structural Concrete Members (AASHTO Girder Type V L=33.5m), fabricated & erected																Unit:	1.00 each
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			
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00		
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00		
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	24.26	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	953.11	44,253.69	6,224.40	29,994.10	21,437.10	51,431.20	Loss 2.0%	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	23.78	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	970.42	9.98	4,108.52	2,202.05	2,886.87	5,088.92		
W0237	Concrete Curing (reinforced concrete)	m3	23.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	76.13	7.77	18.12	14.24	87.78	102.02		
W0241	Formwork (reinforced concrete H<4m)	m2	132.80	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	17,991.58	11,917.59	236.44	873.69	29,271.91	30,145.60		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,975.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	7,123.42	35,488.57	3,603.01	24,887.02	21,327.98	46,215.00		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,612.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	5,798.07	30,670.27	3,025.67	21,461.56	18,032.44	39,494.00		
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	102.51	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	6,700.78	130,365.38	297.23	90,461.32	46,902.08	137,363.40		
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	1,479.47	56,755.90	564.63	42,690.61	16,109.39	58,800.00		
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	68.34	6.0%	93.8%	0.2%	64.9%	35.1%	935.00	3,837.20	59,921.68	139.02	41,496.23	22,401.67	63,897.90		
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	2.00	3.0%	95.9%	1.1%	72.2%	27.8%	14,600.00	882.95	28,005.25	311.79	21,082.41	8,117.59	29,200.00		
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	59.45	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	1,674.79	399.54	20,397.76	11,337.68	11,134.42	22,472.10		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										48,851.52	397,929.32	39,060.30	286,647.99	199,193.15	485,841.14		
Components (%)										10.1%	81.9%	8.0%	59.0%	41.0%	100.0%		
Unit Rate			each							48,867.49	398,059.43	39,073.07	286,741.72	199,258.28	486,000.00		

406(1)j Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=35m), fabricated & erected																Unit:	1.00 each
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			
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00		
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00		
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	27.33	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	1,073.72	49,853.80	7,012.07	33,789.73	24,149.87	57,939.60	Loss 2.0%	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	26.79	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,093.25	11.24	4,628.56	2,480.78	3,252.28	5,733.06		
W0237	Concrete Curing (reinforced concrete)	m3	26.79	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	85.77	8.75	20.41	16.04	98.89	114.93		
W0241	Formwork (reinforced concrete H<4m)	m2	154.83	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	20,976.17	13,894.58	275.66	1,018.63	34,127.78	35,146.41		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,936.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	6,982.75	34,787.79	3,531.86	24,395.58	20,906.82	45,302.40		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,677.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	6,031.86	31,906.97	3,147.67	22,326.95	18,759.55	41,086.50		
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	107.10	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	7,000.82	136,202.64	310.54	94,511.83	49,002.17	143,514.00		
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	1,479.47	56,755.90	564.63	42,690.61	16,109.39	58,800.00		
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	71.40	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	4,353.46	76,865.99	176.55	53,298.84	28,097.16	81,396.00		
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00		
W0557	Precast PC Girder Erection (60.0 ≤ W < 75.0 t)	t	66.98	6.3%	1.8%	91.9%	51.1%	48.9%	424.00	1,797.96	510.02	26,091.54	14,503.37	13,896.15	28,399.52		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										53,189.33	438,817.30	46,256.79	317,669.35	220,594.07	538,263.42		
Components (%)										9.9%	81.5%	8.6%	59.0%	41.0%	100.0%		
Unit Rate			each							53,163.30	438,602.54	46,234.16	317,513.88	220,486.12	538,000.00		

406(1)k Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI L=36m), fabricated & erected

Unit: 1.00 each

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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	28.04	1.9%	85.0%	12.1%	58.3%	41.7%	2,120.00	1,101.62	51,148.95	7,194.24	34,667.54	24,777.26	59,444.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	27.49	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,121.82	11.54	4,749.51	2,545.60	3,337.26	5,882.86	
W0237	Concrete Curing (reinforced concrete)	m3	27.49	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	88.01	8.98	20.95	16.46	101.47	117.93	
W0241	Formwork (reinforced concrete H<4m)	m2	159.31	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	21,583.12	14,296.62	283.63	1,048.10	35,115.27	36,163.37	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	2,017.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	7,274.90	36,243.27	3,679.63	25,416.26	21,781.54	47,197.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,721.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	6,190.12	32,744.12	3,230.26	22,912.74	19,251.76	42,164.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	110.16	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	7,200.84	140,094.14	319.41	97,212.17	50,402.23	147,614.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	1,479.47	56,755.90	564.63	42,690.61	16,109.39	58,800.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	73.44	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	4,477.85	79,062.16	181.59	54,821.67	28,899.93	83,721.60	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	950.49	37,885.91	363.59	28,489.93	10,710.07	39,200.00	
W0557	Precast PC Girder Erection (60.0 ≤ W < 76.0 t)	t	68.73	6.3%	1.8%	91.9%	51.1%	48.9%	424.00	1,844.94	523.35	26,773.24	14,882.30	14,259.22	29,141.52	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										54,676.77	448,908.63	47,494.38	324,850.45	226,229.33	551,079.78	
Components (%)										9.9%	81.5%	8.6%	58.9%	41.1%	100.0%	
Unit Rate			each							54,688.65	448,843.64	47,487.50	324,803.42	226,196.58	551,000.00	

406(1) Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.4m), fabricated & erected

Unit: 1.00 each

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		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	32.18	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	1,264.27	58,700.89	8,256.44	39,786.08	28,435.52	68,221.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.55	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,287.50	13.24	5,450.96	2,921.56	3,830.14	6,751.70	
W0237	Concrete Curing (reinforced concrete)	m3	31.55	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	101.01	10.30	24.04	18.89	116.46	135.35	
W0241	Formwork (reinforced concrete H<4m)	m2	188.02	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	25,472.71	16,873.08	334.75	1,236.98	41,443.56	42,680.54	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,298.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	15,502.00	77,230.32	7,840.88	54,159.19	46,414.01	100,573.23	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,674.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	13,214.70	69,902.33	6,895.97	48,914.25	41,098.75	90,013.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	200.94	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	13,134.87	255,542.09	582.63	177,322.19	91,937.41	269,259.60	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	2,465.78	94,593.17	941.05	71,151.02	26,848.98	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	78.88	6.8%	1.8%	92.4%	51.3%	48.7%	431.00	1,979.22	613.25	31,404.81	17,441.68	16,555.60	33,997.28	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										75,785.65	573,612.38	61,865.24	413,098.91	298,164.36	711,263.27	
Components (%)										10.7%	80.6%	8.7%	58.1%	41.9%	100.0%	
Unit Rate			each							75,757.60	573,400.06	61,842.34	412,946.01	298,053.99	711,000.00	

406(i)m Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=39.55m), fabricated & erected										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	32.29	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	1,268.59	58,901.55	8,284.66	39,922.07	28,532.73	68,454.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.66	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,291.99	13.28	5,469.96	2,931.75	3,843.49	6,775.24	
W0237	Concrete Curing (reinforced concrete)	m3	31.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	101.36	10.34	24.12	18.95	116.87	135.82	
W0241	Formwork (reinforced concrete II(4m))	m2	188.74	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	25,570.26	16,937.69	336.03	1,241.72	41,602.26	42,843.98	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,386.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	15,819.39	78,811.59	8,001.42	85,268.08	47,364.32	102,632.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,572.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	12,847.82	67,961.66	6,704.52	47,556.26	39,957.74	87,514.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	201.71	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	13,185.20	256,521.33	584.87	178,001.69	92,289.71	270,291.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	2,465.78	94,593.17	941.05	71,151.02	26,848.98	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	79.15	5.8%	1.8%	92.4%	51.3%	48.7%	431.00	1,986.00	615.35	31,512.31	17,501.38	16,612.27	34,113.65	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									75,899.99	574,499.65	61,992.65	413,740.00	298,652.29	712,392.29	
	Components (%)									10.7%	80.6%	8.7%	58.1%	41.9%	100.0%	
	Unit Rate	each								75,858.19	574,183.30	61,958.51	413,512.17	298,487.83	712,600.60	

406(i)n Precast Prestressed Structural Concrete Members (AASHTO Girder Type VI(mod) L=40m), fabricated & erected										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	862.60	133.70	133.70	147.07	982.93	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	501.00	0.00	0.00	0.00	501.00	501.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	32.62	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	1,281.55	59,503.52	8,369.33	40,330.07	28,824.33	69,154.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.98	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,305.05	13.42	5,525.25	2,961.38	3,882.34	6,843.72	
W0237	Concrete Curing (reinforced concrete)	m3	31.98	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	102.38	10.44	24.37	19.15	118.04	137.19	
W0241	Formwork (reinforced concrete II(4m))	m2	190.92	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	25,865.60	17,133.33	339.91	1,256.06	42,082.78	43,338.84	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,060.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	11,036.79	54,984.83	5,582.39	38,559.13	33,044.87	71,604.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,895.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	6,815.96	36,054.69	3,556.85	25,229.31	21,198.19	46,427.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	204.00	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	13,334.89	259,433.60	591.51	180,022.53	93,337.47	273,360.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	2,465.78	94,593.17	941.05	71,151.02	26,848.98	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	79.95	5.8%	1.8%	92.4%	51.3%	48.7%	431.00	2,006.07	621.57	31,830.81	17,678.28	16,780.17	34,458.45	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									65,577.67	522,482.26	56,895.17	377,354.00	267,601.10	644,955.10	
	Components (%)									10.2%	81.0%	8.8%	58.5%	41.5%	100.0%	
	Unit Rate	each								65,582.24	522,518.63	56,899.13	377,380.27	267,619.73	645,000.00	

406(1)p Precast Prestressed Structural Concrete (PC Deck Slab, 210 x 2000 x 9950mm)										Unit: 100.00 m ²						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m ³	27.78	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	1,091.40	50,674.67	7,127.53	34,346.09	24,547.51	58,893.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m ³	27.24	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	1,111.62	11.43	4,706.31	2,522.45	3,306.91	5,829.36	
W0237	Concrete Curing (reinforced concrete)	m ³	27.24	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	87.21	8.90	20.76	16.31	100.55	116.86	
W0241	Formwork (reinforced concrete H<4m)	m ²	55.63	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	7,536.68	4,992.29	99.04	365.99	12,262.02	12,628.01	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	7,844.22	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	28,214.21	149,245.88	14,723.33	104,435.00	87,748.42	192,183.42	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	900.00	8.3%	91.5%	0.2%	62.7%	37.3%	216.00	16,184.50	177,794.76	420.73	121,859.56	72,540.44	194,400.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	kg	90.45	4.9%	93.4%	1.7%	70.6%	29.4%	2,070.00	9,235.18	174,884.89	3,111.43	132,270.54	54,960.96	187,231.50	
W0551	Precast PC Girder Erection (W < 12.5t)	t	68.10	25.5%	3.9%	70.6%	40.8%	59.2%	219.00	3,795.60	584.57	10,533.73	6,091.01	8,822.89	14,913.90	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	3.78	6.1%	74.8%	19.1%	55.3%	44.7%	2,110.00	483.23	5,968.91	1,523.66	4,411.01	3,564.79	7,975.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									67,739.64	564,166.29	42,266.52	406,317.97	267,854.48	674,172.45	
	Components (%)									10.0%	83.7%	6.3%	60.3%	39.7%	100.0%	
	Unit Rate	m ²								677.22	5,640.22	422.56	4,062.14	2,677.86	6,740.00	

406(3)a Prestressing Steel 12-T12.7 for PC Box Girders of Angat Bridge, Longitudinal										Unit: 1,000.00 kg						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	1.00	11.7%	84.3%	4.1%	60.3%	39.7%	153,000.00	17,841.26	128,904.26	6,254.48	92,268.41	60,731.59	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	3.25	1.0%	92.4%	6.7%	70.9%	29.1%	12,900.00	400.76	38,729.24	2,795.00	29,745.68	12,179.32	41,925.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	3.25	6.4%	87.4%	6.2%	68.3%	31.7%	9,570.00	1,991.28	27,195.18	1,916.05	21,229.76	9,872.74	31,102.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									20,233.29	194,828.68	10,965.53	143,243.85	82,783.65	226,027.50	
	Components (%)									0.0%	86.2%	4.9%	63.4%	36.6%	100.0%	
	Unit Rate	kg								20.23	194.80	10.96	143.23	82.77	226.00	
	Total weight of PC cables = 106,536.0 kg			Total numbers of cables = 346												

406(3)b Prestressing Steel 5-T12.7 for PC Box Girders of Angat Bridge, Transversal in Top Slab										Unit: 1,000.00 kg						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	1.00	11.4%	84.5%	4.1%	60.5%	39.5%	153,000.00	17,436.27	129,296.20	6,267.53	92,549.79	60,450.21	153,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	26.77	5.1%	86.6%	8.3%	67.0%	33.0%	1,680.00	2,309.12	38,961.37	3,712.11	30,149.05	14,824.55	44,973.60	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	26.77	40.5%	23.3%	36.3%	34.4%	65.6%	829.00	8,977.63	5,166.06	8,048.64	7,624.62	14,567.71	22,192.33	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									28,714.03	173,423.63	18,028.27	130,323.46	89,842.47	220,165.93	
	Components (%)									13.0%	78.8%	8.2%	59.2%	40.8%	100.0%	
	Unit Rate	kg								28.69	173.29	18.01	130.23	89.77	220.00	
	Total weight of PC cables = 28,992.0 kg			Total numbers of cables = 776												

406(3)c Prestressing Bar ϕ32mm for PC Box Girders of Angat Bridge, Transversal in Diaphragms										Unit: 1,000.00 kg						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0681	PC Bar Installation, (1-ϕ32mm) for PC Box Girder (Transversal)	t	1.00	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	9,132.38	143,738.86	5,128.77	102,327.51	55,672.49	158,000.00	
W0682	PC Bar Anchorage, (1-ϕ32mm) for PC Box Girder (Transversal)	each	29.12	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	1,316.56	48,757.79	2,924.05	37,299.36	15,699.04	52,998.40	
W0683	PC Bar Tensioning, (ϕ32mm) for PC Box Girder (Transversal)	each	29.12	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	8,690.46	37,328.61	6,396.92	31,287.69	21,128.31	52,416.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									19,139.40	229,825.27	14,449.74	170,914.55	92,499.85	263,414.40	
	Components (%)									7.3%	87.2%	5.5%	64.9%	35.1%	100.0%	
	Unit Rate	kg								19.11	229.46	14.43	170.65	92.35	263.00	
	Total weight of PC cables = 4,669.8 kg			Total numbers of cables = 136												

406(3)d Prestressing Bar ϕ 32mm for PC Box Girders of Angat Bridge, Vertical in Webs Unit: 1,000.00 kg

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)
W0686	PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	t	1.00	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	9,132.38	143,738.85	5,128.77	102,327.51	55,672.49	158,000.00	
W0687	PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	each	61.38	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	2,775.08	102,773.13	6,163.40	78,620.69	33,090.91	111,711.60	
W0688	PC Bar Tensioning, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	each	61.38	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	18,318.02	78,682.36	13,483.62	65,949.11	44,534.89	110,484.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										30,225.47	325,194.34	24,775.79	246,897.32	133,298.28	380,195.60	
Components (%)										7.9%	85.5%	6.5%	64.9%	35.1%	100.0%	
Unit Rate										30,21	325.03	24.76	246.77	133.23	380.00	
Total weight of PC tendons =			5,473.8 kg	Total numbers of tendons =			336									

406(3)e Prestressing Steel 12-T12.7 for PC Hollow Slab Bridge for Burgol Ramp C, Longitudinal Unit: 1,000.00 kg

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)
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	1.00	11.7%	84.3%	4.1%	60.3%	39.7%	153,000.00	17,841.26	128,904.26	6,254.48	92,268.41	60,731.59	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.42	1.0%	92.4%	6.7%	70.9%	29.1%	12,900.00	175.10	16,921.70	1,221.20	12,996.58	5,321.42	18,318.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.42	6.4%	87.4%	6.2%	68.3%	31.7%	9,570.00	870.03	11,882.20	837.17	9,275.77	4,313.63	13,589.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										18,886.39	157,708.16	8,312.85	114,540.75	70,366.65	184,907.40	
Components (%)										10.2%	85.3%	4.5%	61.9%	38.1%	100.0%	
Unit Rate										18.90	157.79	8.32	114.60	70.40	185.00	
Total weight of PC cables =			14,114.8 kg	Total numbers of cables =			20									

407(1)a Elastomeric Bearing Pad, Duro 60 (400x300x50mm) Unit: 10.00 each

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)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
W09001	Laminated Elastomeric Bearing Pad (400x300x50mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	11,000.00	0.00	110,000.00	0.00	71,500.00	38,500.00	110,000.00	
W02011	Structural Steel (Round Bar, SS400)	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	0.00	0.00	0.00	0.00	0.00	
W02015	Structural Steel (Plates, SS400)	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	0.00	0.00	0.00	0.00	0.00	
W02001	Reinforcing Bars, Grade 40	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
W09013	Elastomeric Pad (t=50mm)	m2	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	906.21	1,359.32	1,246.04	1,019.49	2,265.53	2.0%
Total										3,276.40	110,906.21	1,359.32	72,746.04	42,795.89	115,541.93	
Components (%)										2.8%	96.0%	1.2%	63.0%	37.0%	100.0%	
Unit Rate										328.94	11,134.59	136.47	7,303.44	4,296.56	11,600.00	
Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.																

407(1)b Elastomeric Bearing Pad, Duro 60 (600x300x50mm) Unit: 10.00 each

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)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
W09002	Laminated Elastomeric Bearing Pad (600x300x50mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	15,800.00	0.00	158,000.00	0.00	102,700.00	55,300.00	158,000.00	
W02011	Structural Steel (Round Bar, SS400)	kg	216.00	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,708.80	0.00	3,296.16	1,412.64	4,708.80	
W02015	Structural Steel (Plates, SS400)	kg	92.30	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,864.46	0.00	1,305.12	559.34	1,864.46	
W02001	Reinforcing Bars, Grade 40	kg	16.60	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	265.60	0.00	172.64	92.96	265.60	
W09013	Elastomeric Pad (t=50mm)	m2	0.79	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	20,303.00	0.00	13,196.95	7,106.05	20,303.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	1,507.35	2,261.02	2,072.60	1,695.76	3,768.37	2.0%
Total										3,276.40	188,649.21	2,261.02	122,743.47	69,443.15	192,186.63	
Components (%)										1.7%	97.1%	1.2%	63.9%	36.1%	100.0%	
Unit Rate										327.32	18,646.80	225.88	12,262.43	6,937.57	19,200.00	
Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.																

407(i)c Elastomeric Bearing Pad, Duro 60 (600x350x50mm)

Unit: 10.00 each

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)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
M09003	Laminated Elastomeric Bearing Pad (600x350x50mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	18,400.00	0.00	184,000.00	0.00	119,600.00	64,400.00	184,000.00	
M02011	Structural Steel (Round Bar, SS400)	kg	212.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,628.14	0.00	3,239.70	1,388.44	4,628.14	
M02015	Structural Steel (Plates, SS400)	kg	172.90	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	3,492.58	0.00	2,444.81	1,047.77	3,492.58	
M02001	Reinforcing Bars, Grade 40	kg	47.90	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	766.40	0.00	498.16	268.24	766.40	
M09013	Elastomeric Pad (t=50mm)	m2	0.56	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	14,392.00	0.00	9,354.80	5,037.20	14,392.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	1,684.44	2,526.67	2,316.11	1,895.00	4,211.11	2.0%
Total										3,276.40	208,963.56	2,526.67	137,453.57	77,313.06	214,766.63	
Components (%)										1.5%	97.3%	1.2%	64.0%	36.0%	100.0%	
Unit Rate			each							328.00	20,919.06	252.94	13,760.29	7,739.71	21,500.00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(i)d Elastomeric Bearing Pad, Duro 60 (600x700x89mm)

Unit: 10.00 each

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)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
M09004	Laminated Elastomeric Bearing Pad (600x700x89mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	66,600.00	0.00	666,000.00	0.00	432,900.00	233,100.00	666,000.00	
M02011	Structural Steel (Round Bar, SS400)	kg	2,882.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	62,834.14	0.00	43,983.90	18,850.24	62,834.14	
M02015	Structural Steel (Plates, SS400)	kg	2,330.60	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	47,078.12	0.00	32,954.68	14,123.44	47,078.12	
M02001	Reinforcing Bars, Grade 40	kg	177.60	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	2,841.60	0.00	1,847.04	994.56	2,841.60	
M09013	Elastomeric Pad (t=50mm)	m2	2.06	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	52,942.00	0.00	34,412.30	18,529.70	52,942.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	6,679.78	10,019.67	9,184.69	7,514.75	16,699.45	2.0%
Total										3,276.40	838,375.64	10,019.67	555,282.62	296,389.09	851,671.71	
Components (%)										0.4%	98.4%	1.2%	65.2%	34.8%	100.0%	
Unit Rate			each							327.77	83,869.88	1,002.35	55,549.67	29,650.33	85,200.00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(i)e Elastomeric Bearing Pad, Duro 60 (600x400x60mm)

Unit: 10.00 each

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)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
M09005	Laminated Elastomeric Bearing Pad (600x400x60mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	25,300.00	0.00	253,000.00	0.00	164,450.00	88,550.00	253,000.00	
M02011	Structural Steel (Round Bar, SS400)	kg	994.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	21,673.56	0.00	15,171.49	6,502.07	21,673.56	
M02015	Structural Steel (Plates, SS400)	kg	135.60	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	2,739.12	0.00	1,917.38	821.74	2,739.12	
M02001	Reinforcing Bars, Grade 40	kg	22.20	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	355.20	0.00	230.88	124.32	355.20	
M09013	Elastomeric Pad (t=50mm)	m2	0.53	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	13,621.00	0.00	8,853.65	4,767.35	13,621.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	2,357.32	3,535.98	3,241.32	2,651.99	5,893.31	2.0%
Total										3,276.40	293,746.20	3,535.98	193,864.72	106,693.86	300,558.59	
Components (%)										1.1%	97.7%	1.2%	64.6%	35.5%	100.0%	
Unit Rate			each							328.12	29,417.76	354.12	19,414.94	10,685.06	30,100.00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)f Elastomeric Bearing Pad, Duro 60 (450x300x60mm)

Unit: 10.00 each

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			
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40		
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00		
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00		
M09006	Laminated Elastomeric Bearing Pad (450x300x60mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	14,200.00	0.00	142,000.00	0.00	92,300.00	49,700.00	142,000.00		
M02011	Structural Steel (Round Bar, SS400)	kg	1,315.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	28,673.54	0.00	20,071.48	8,602.06	28,673.54		
M02015	Structural Steel (Plates, SS400)	kg	300.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	6,060.00	0.00	4,242.00	1,818.00	6,060.00		
M02001	Reinforcing Bars, Grade 40	kg	336.70	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	5,387.20	0.00	3,501.68	1,885.52	5,387.20		
M09013	Elastomeric Pad (t=50mm)	m2	0.83	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	21,331.00	0.00	13,865.15	7,465.85	21,331.00		
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	1,653.83	0.00	2,480.74	2,274.01	1,860.55	4,134.56	2.0%
Total										3,276.40	205,105.57	2,480.74	136,254.32	74,608.39	210,862.70		
Components (%)										1.6%	97.3%	1.2%	64.6%	35.4%	100.0%		
Unit Rate			each							327.85	20,523.91	248.24	13,634.30	7,465.70	21,100.00		

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)g Elastomeric Bearing Pad, Duro 60 (550x300x50mm)

Unit: 10.00 each

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		
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
M09007	Laminated Elastomeric Bearing Pad (550x300x50mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	14,500.00	0.00	145,000.00	0.00	94,250.00	50,750.00	145,000.00	
M02011	Structural Steel (Round Bar, SS400)	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	0.00	0.00	0.00	0.00	0.00	
M02015	Structural Steel (Plates, SS400)	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	0.00	0.00	0.00	0.00	0.00	
M02001	Reinforcing Bars, Grade 40	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
M09013	Elastomeric Pad (t=50mm)	m2	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	1,186.21	1,779.32	1,631.04	1,334.49	2,965.53	2.0%
Total										3,276.40	146,186.21	1,779.32	95,881.04	55,369.89	151,241.93	
Components (%)										2.2%	96.7%	1.2%	63.4%	36.6%	100.0%	
Unit Rate			each							327.12	14,595.24	177.65	9,572.77	5,527.23	15,100.00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)h Elastomeric Bearing Pad, Duro 60 (500x400x60mm)

Unit: 10.00 each

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		
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,568.00	0.00	0.00	0.00	1,568.00	1,568.00	
M09008	Laminated Elastomeric Bearing Pad (500x400x60mm)	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	21,100.00	0.00	211,000.00	0.00	137,150.00	73,850.00	211,000.00	
M02011	Structural Steel (Round Bar, SS400)	kg	1,315.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	28,673.54	0.00	20,071.48	8,602.06	28,673.54	
M02015	Structural Steel (Plates, SS400)	kg	300.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	6,060.00	0.00	4,242.00	1,818.00	6,060.00	
M02001	Reinforcing Bars, Grade 40	kg	336.70	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	5,387.20	0.00	3,501.68	1,885.52	5,387.20	
M09013	Elastomeric Pad (t=50mm)	m2	0.83	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	21,331.00	0.00	13,865.15	7,465.85	21,331.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	2,205.83	3,308.74	3,033.01	2,481.55	5,514.56	2.0%
Total										3,276.40	274,657.57	3,308.74	181,863.32	99,379.39	281,242.70	
Components (%)										1.2%	97.7%	1.2%	64.7%	35.3%	100.0%	
Unit Rate			each							327.36	27,442.05	330.59	18,170.64	9,929.36	28,100.00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(2)a Expansion Joint, Multiflex M80 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09200	Expansion Joint, Multiflex 80	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	64,600.00	0.00	6,460,000.00	0.00	4,199,000.00	2,261,000.00	6,460,000.00	
M0225	Grout (non-shrink)	m3	0.36	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	10.70	1,058.69	28.60	672.61	425.39	1,098.00	
M07021	Asphalt Mixture	t	2.54	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	6,350.00	0.00	4,127.50	2,222.50	6,350.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		12,943.46	38,830.39	77,660.78	71,189.05	58,245.59	129,434.64	2.0%
	Total									17,238.17	6,506,239.09	77,689.29	4,274,989.17	2,326,177.47	6,601,166.64	
	Components (%)									0.3%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								172.35	65,050.89	776.76	42,742.34	23,257.66	66,000.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)b Expansion Joint, Multiflex M100 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09201	Expansion Joint, Multiflex 100	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	74,400.00	0.00	7,440,000.00	0.00	4,836,000.00	2,604,000.00	7,440,000.00	
M0225	Grout (non-shrink)	m3	0.39	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	11.59	1,146.92	30.99	728.67	460.83	1,189.50	
M07021	Asphalt Mixture	t	2.96	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	7,400.00	0.00	4,810.00	2,590.00	7,400.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		14,905.75	44,717.24	89,434.48	81,981.61	67,075.86	149,057.47	2.0%
	Total									19,201.34	7,493,264.16	89,465.47	4,923,520.27	2,678,410.70	7,601,930.97	
	Components (%)									0.3%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								191.96	74,913.61	894.43	49,222.70	26,777.30	76,000.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)c Expansion Joint, Multiflex M140 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09202	Expansion Joint, Multiflex 140	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	93,800.00	0.00	9,380,000.00	0.00	6,097,000.00	3,283,000.00	9,380,000.00	
M0225	Grout (non-shrink)	m3	0.82	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	24.38	2,411.47	65.15	1,532.07	968.93	2,501.00	
M07021	Asphalt Mixture	t	4.28	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	10,700.00	0.00	6,955.00	3,745.00	10,700.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		18,794.97	56,384.91	112,769.82	103,372.34	84,577.37	187,949.70	2.0%
	Total									23,103.35	9,449,496.38	112,834.97	6,208,859.40	3,376,575.30	9,585,434.70	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								231.14	94,539.97	1,128.89	62,118.17	33,781.83	95,990.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)d Expansion Joint, Multiflex M160 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09203	Expansion Joint, Multiflex 160	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	107,000.00	0.00	10,700,000.00	0.00	6,955,000.00	3,745,000.00	10,700,000.00	
M0225	Grout (non-shrink)	m3	0.64	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	16.05	1,588.04	42.91	1,008.92	638.08	1,647.00	
M07021	Asphalt Mixture	t	3.85	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	9,625.00	0.00	6,256.25	3,368.75	9,625.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		21,431.11	64,293.34	128,586.67	117,871.12	96,440.00	214,311.12	2.0%
	Total									25,731.17	10,775,506.38	128,629.58	7,080,136.29	3,849,730.83	10,929,867.12	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								256.61	107,450.61	1,282.78	70,607.89	38,392.11	109,000.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)e Expansion Joint, Multiflex W200 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09204	Expansion Joint, Multiflex 200	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	122,000.00	0.00	12,200,000.00	0.00	7,930,000.00	4,270,000.00	12,200,000.00	
M0225	Grout (non-shrink)	m3	1.60	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	47.57	4,705.30	127.13	2,989.40	1,890.60	4,880.00	
M07021	Asphalt Mixture	t	4.18	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	10,450.00	0.00	6,792.50	3,657.50	10,450.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		24,439.23	73,317.68	146,635.37	134,415.75	109,976.53	244,392.28	2.0%
Total										28,770.79	12,288,472.99	146,762.50	8,074,197.65	4,389,808.63	12,484,006.28	
Components (%)										0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
Unit Rate										288.54	123,239.60	1,471.86	80,975.14	44,024.86	125,000.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)f Expansion Joint, Multiflex M330 (Elastomeric)

Unit: 100.00 m

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		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M09206	Expansion Joint, Multiflex 330	m	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	250,000.00	0.00	25,000,000.00	0.00	16,250,000.00	8,750,000.00	25,000,000.00	
M0225	Grout (non-shrink)	m3	2.21	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	65.70	6,499.20	175.60	4,129.10	2,611.40	6,740.50	
M07021	Asphalt Mixture	t	5.64	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00	0.00	14,100.00	0.00	9,165.00	4,935.00	14,100.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	55.0%	45.0%		50,050.25	150,150.75	300,301.49	275,276.37	225,226.12	500,502.49	2.0%
Total										54,399.95	25,170,749.95	300,477.09	16,538,570.47	8,987,056.52	25,525,626.99	
Components (%)										0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
Unit Rate										543.45	251,454.79	3,001.75	165,219.66	89,780.34	255,000.00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)g Expansion Joint, 30mm for bridge sidewalk

Unit: 100.00 m

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
M07104	Joint Filler (bituminous t=20mm)	m2	7.50	0.0%	100.0%	0.0%	60.0%	40.0%	571.00	0.00	4,282.50	0.00	2,569.50	1,713.00	4,282.50	
M07117	Joint Sealant (liquid type)	kg	91.80	0.0%	100.0%	0.0%	60.0%	40.0%	96.20	0.00	8,831.16	0.00	5,298.70	3,532.46	8,831.16	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	44.23	103.20	81.08	66.34	147.42	1.0%
Total										1,628.80	13,157.89	103.20	7,949.28	6,940.61	14,889.88	
Components (%)										10.9%	88.4%	0.7%	53.4%	46.6%	100.0%	
Unit Rate										16.30	131.67	1.03	79.55	69.45	149.00	

Miscellaneous covers the cost for minor materials, minor tools, etc.

SPL 407(3)a Restraining Bar ϕ 32 x 1495mm

Unit: 10.00 each

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		
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,527.00	0.00	0.00	0.00	1,527.00	1,527.00	
L019	Skilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,476.00	0.00	0.00	0.00	1,476.00	1,476.00	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
M09313	PC Tendon, ϕ 32	kg	94.40	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	12,838.40	0.00	8,986.88	3,851.52	12,838.40	
M08302	PVC Pipe, ϕ 50	m	7.50	0.0%	100.0%	0.0%	50.0%	50.0%	66.70	0.00	500.25	0.00	250.13	250.13	500.25	
M09012	Elastomeric Pad (t=40mm)	m2	1.41	0.0%	100.0%	0.0%	65.0%	35.0%	20,500.00	0.00	28,905.00	0.00	18,788.25	10,116.75	28,905.00	
M02015	Structural Steel (Plates, SS400)	kg	491.40	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	9,926.28	0.00	6,948.40	2,977.88	9,926.28	
M02001	Reinforcing Bars, Grade 40	kg	63.70	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	1,019.20	0.00	662.48	356.72	1,019.20	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	1,373.80	3,205.54	2,518.64	2,060.70	4,579.34	8.0%
Total										4,052.60	54,562.93	3,205.54	38,154.77	23,666.30	61,821.07	
Components (%)										6.6%	88.3%	5.2%	61.7%	38.3%	100.0%	
Unit Rate										405.12	5,454.43	320.44	3,814.18	2,366.82	6,180.00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407(3)b Restraining Bar ϕ 32 x 1900mm

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,527.00	0.00	0.00	0.00	1,527.00	1,527.00	
L019	Skilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,476.00	0.00	0.00	0.00	1,476.00	1,476.00	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
M09313	PC Tendon, ϕ 32	kg	118.70	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	16,143.20	0.00	11,300.24	4,842.96	16,143.20	
M08302	PVC Pipe, ϕ 50	m	8.00	0.0%	100.0%	0.0%	50.0%	50.0%	66.70	0.00	533.60	0.00	266.80	266.80	533.60	
M09012	Elastomeric Pad (t=40mm)	m2	1.41	0.0%	100.0%	0.0%	65.0%	35.0%	20,500.00	0.00	28,905.00	0.00	18,788.25	10,116.75	28,905.00	
M02015	Structural Steel (Plates, SS400)	kg	515.10	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	10,405.02	0.00	7,283.51	3,121.51	10,405.02	
M02001	Reinforcing Bars, Grade 40	kg	64.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	1,030.40	0.00	669.76	360.64	1,030.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	1,465.68	3,419.91	2,687.07	2,198.51	4,885.59	8.0%
Total										4,052.60	58,482.90	3,419.91	40,995.64	24,959.77	65,955.41	
Components (%)										6.1%	88.7%	5.2%	62.2%	37.8%	100.0%	
Unit Rate			each							405.53	5,852.24	342.22	4,102.34	2,497.66	6,600.00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407(3)c Restraining Cable ϕ 65 x 4121mm (PC 7-T15.2)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	748.80	0.00	0.00	0.00	748.80	748.80	
L009	Welder	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,985.10	0.00	0.00	0.00	1,985.10	1,985.10	
L019	Skilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,116.00	0.00	0.00	0.00	3,116.00	3,116.00	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,472.00	0.00	0.00	0.00	1,472.00	1,472.00	
M09307	PC Strand, T15.2	kg	317.60	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	37,794.40	0.00	26,456.08	11,338.32	37,794.40	
M09332	PC Sheath, ϕ 65	m	37.81	0.0%	100.0%	0.0%	65.0%	35.0%	123.00	0.00	4,650.63	0.00	3,022.91	1,627.72	4,650.63	
M09013	Elastomeric Pad (t=50mm)	m2	2.04	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	52,428.00	0.00	34,078.20	18,349.80	52,428.00	
M02015	Structural Steel (Plates, SS400)	kg	783.60	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	15,828.72	0.00	11,080.10	4,748.62	15,828.72	
M02511	Stainless Plate	kg	908.10	0.0%	100.0%	0.0%	70.0%	30.0%	135.00	0.00	122,593.50	0.00	85,815.45	36,778.05	122,593.50	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	11,549.62	7,699.75	10,587.15	8,662.22	19,249.37	8.0%
Total										7,321.90	244,844.87	7,699.75	171,039.90	88,826.62	259,866.52	
Components (%)										2.8%	94.2%	3.0%	65.8%	34.2%	100.0%	
Unit Rate			each							732.57	24,497.06	770.37	17,112.78	8,887.22	26,000.00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407(3)d Restraining Cable ϕ 65 x 4224mm (PC 7-T15.2)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	748.80	0.00	0.00	0.00	748.80	748.80	
L009	Welder	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,985.10	0.00	0.00	0.00	1,985.10	1,985.10	
L019	Skilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,116.00	0.00	0.00	0.00	3,116.00	3,116.00	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,472.00	0.00	0.00	0.00	1,472.00	1,472.00	
M09307	PC Strand, T15.2	kg	325.50	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	38,734.50	0.00	27,114.15	11,620.35	38,734.50	
M09332	PC Sheath, ϕ 65	m	38.84	0.0%	100.0%	0.0%	65.0%	35.0%	123.00	0.00	4,777.32	0.00	3,105.26	1,672.06	4,777.32	
M09013	Elastomeric Pad (t=50mm)	m2	2.04	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00	0.00	52,428.00	0.00	34,078.20	18,349.80	52,428.00	
M02015	Structural Steel (Plates, SS400)	kg	960.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	19,392.00	0.00	13,574.40	5,817.60	19,392.00	
M02511	Stainless Plate	kg	613.50	0.0%	100.0%	0.0%	70.0%	30.0%	135.00	0.00	82,822.50	0.00	57,975.75	24,846.75	82,822.50	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	9,862.86	6,575.24	9,040.95	7,397.14	16,438.10	8.0%
Total										7,321.90	208,017.18	6,575.24	144,888.71	77,025.61	221,914.32	
Components (%)										3.3%	93.7%	3.0%	65.3%	34.7%	100.0%	
Unit Rate			each							732.47	20,809.75	657.78	14,494.47	7,705.53	22,290.00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

407(4) G.I. Drain Pipe ϕ 150mm for Bridge Drainage

Unit: 10.00 m

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)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	224.00	0.00	0.00	0.00	224.00	224.00	
M08709	Steel Gas Pipe, ϕ 150	m	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	707.00	0.00	7,070.00	0.00	4,242.00	2,828.00	7,070.00	
M02012	Structural Steel (Flat Bar, SS400)	kg	10.48	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	237.90	0.00	166.53	71.37	237.90	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	73.92	172.48	135.52	110.88	246.40	3.0%
Total										905.40	7,381.82	172.48	4,544.05	3,915.65	8,459.70	
Components (%)										10.7%	87.3%	2.0%	53.7%	46.3%	100.0%	
Unit Rate			m							90.54	738.21	17.25	454.42	391.58	846.00	

Miscellaneous covers the costs for falseworks, galvanizing or painting, welding equipment, welding rods, minor tools, etc.

SPL 407(5)a Pier Protection Concrete Blocks for Anget Bridge

Unit: 1,344.00 m2

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)
W0601	Pier Protection Concrete Block Type A Production & Laying	each	112.00	14.5%	62.3%	23.2%	50.2%	49.8%	3,060.00	49,664.21	213,660.84	79,394.95	171,915.48	170,804.52	342,720.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	32.00	14.9%	62.0%	23.1%	49.9%	50.1%	2,910.00	13,882.01	57,690.24	21,547.75	46,496.81	46,623.19	93,120.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	160.00	14.9%	61.7%	23.3%	49.9%	50.1%	2,870.00	68,442.57	283,546.97	107,210.46	229,029.77	230,170.23	459,200.00	
W0611	Stone Laying	m3	403.50	10.0%	14.3%	75.6%	47.5%	52.5%	381.00	15,417.17	22,034.64	116,281.68	73,022.08	80,711.42	153,733.50	
M02011	Structural Steel (Round Bar, SS400)	kg	681.80	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	14,863.24	0.00	10,404.27	4,458.97	14,863.24	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		1,053.64	3,190.91	6,381.82	5,318.18	5,318.18	10,636.37	1.0%
Total										148,469.60	594,986.84	330,816.67	536,186.59	538,086.52	1,074,273.11	
Components (%)										13.8%	55.4%	30.8%	49.9%	50.1%	100.0%	
Unit Rate			m2							110.43	442.53	246.05	398.79	400.21	799.00	

Miscellaneous covers the costs for bed preparation, extra earthworks, adjustment, etc.

SPL 407(5)b Pier Protection Concrete Blocks for Pampanga Bridge

Unit: 840.00 m2

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)
W0601	Pier Protection Concrete Block Type A Production & Laying	each	70.00	14.5%	62.3%	23.2%	50.2%	49.8%	3,060.00	31,040.13	133,538.02	49,621.84	107,447.18	106,752.82	214,200.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	20.00	14.9%	62.0%	23.1%	49.9%	50.1%	2,910.00	8,676.25	36,056.40	13,467.34	29,060.51	29,139.49	58,200.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	100.00	14.9%	61.7%	23.3%	49.9%	50.1%	2,870.00	42,776.61	177,216.85	67,006.54	143,143.60	143,856.40	287,000.00	
W0611	Stone Laying	m3	254.10	10.0%	14.3%	75.6%	47.5%	52.5%	381.00	9,708.81	13,876.09	73,227.20	45,984.91	50,827.19	96,812.10	
M02011	Structural Steel (Round Bar, SS400)	kg	426.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	9,291.16	0.00	6,503.81	2,787.35	9,291.16	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		665.50	1,996.51	3,993.02	3,327.52	3,327.52	6,655.03	1.0%
Total										92,867.30	371,975.04	207,315.95	335,467.52	336,690.77	672,158.29	
Components (%)										13.8%	55.3%	30.8%	49.9%	50.1%	100.0%	
Unit Rate			m2							110.53	442.72	246.75	399.27	400.73	890.00	

Miscellaneous covers the costs for bed preparation, extra earthworks, adjustment, etc.

SPL 407(5)c Pier Protection Concrete Blocks for Talavera Bridge

Unit: 896.00 m2

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)
W0601	Pier Protection Concrete Block Type A Production & Laying	each	24.00	14.5%	62.3%	23.2%	50.2%	49.8%	3,060.00	10,642.33	45,784.47	17,013.20	36,839.03	36,600.97	73,440.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	104.00	14.9%	62.0%	23.1%	49.9%	50.1%	2,910.00	45,116.52	187,493.29	70,030.18	151,114.64	151,525.36	302,640.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	88.00	14.9%	61.7%	23.3%	49.9%	50.1%	2,870.00	37,643.42	155,950.83	58,965.75	125,966.37	126,593.63	252,560.00	
W0611	Stone Laying	m3	262.80	10.0%	14.3%	75.6%	47.5%	52.5%	381.00	10,041.22	14,351.19	75,734.39	47,559.36	52,567.44	100,126.80	
M02011	Structural Steel (Round Bar, SS400)	kg	568.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	12,386.76	0.00	8,670.73	3,716.03	12,386.76	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		741.15	2,223.46	4,446.92	3,705.77	3,705.77	7,411.54	1.0%
Total										104,184.64	418,190.00	226,190.45	373,855.90	374,709.19	748,565.10	
Components (%)										13.9%	55.9%	30.2%	49.9%	50.1%	100.0%	
Unit Rate			m2							116.21	466.48	252.31	417.02	417.98	835.00	

Miscellaneous covers the costs for bed preparation, extra earthworks, adjustment, etc.

SPL 420(1) Temporary Access Road Crossing Streams/Rivers

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0121	Borrow Soil, transported	m3	1,747.20	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	25,538.21	81,485.64	259,888.14	177,202.92	189,709.08	366,912.00	Loss 20.0%
W0149	Filling, Laying & Compaction, bulldozer 211	m3	1,456.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	1,309.24	6,628.00	73,889.96	44,408.85	37,418.35	81,827.20	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610 (24")	m	40.00	10.3%	68.3%	21.3%	53.8%	46.5%	1,110.00	4,595.07	30,332.61	9,472.32	23,768.75	20,631.25	44,400.00	
W0342	Precast Concrete Pipe Laying φ610 (24")	m	40.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	4,530.17	806.77	4,503.06	2,899.82	6,940.18	9,840.00	
W0352	Precast Concrete Pipe Removal φ610 (24")	m	40.00	45.3%	6.0%	48.6%	29.9%	70.1%	76.00	1,378.06	183.17	1,478.77	909.48	2,130.52	3,040.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ910 (36")	m	119.00	10.9%	68.3%	20.8%	53.4%	46.6%	2,640.00	34,352.34	214,563.35	65,244.31	167,828.27	146,331.73	314,160.00	
W0344	Precast Concrete Pipe Laying φ910 (36")	m	119.00	31.3%	8.6%	60.1%	37.6%	62.5%	516.00	19,214.87	5,288.51	36,900.62	23,002.20	38,401.80	61,404.00	
W0354	Precast Concrete Pipe Removal φ910 (36")	m	119.00	31.0%	6.4%	62.5%	37.7%	62.3%	159.00	5,871.19	1,215.34	11,834.48	7,126.79	11,794.21	18,921.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42")	m	48.00	11.3%	68.6%	20.1%	53.4%	46.6%	3,960.00	21,529.61	130,336.26	38,214.13	101,419.38	88,660.62	190,080.00	
W0345	Precast Concrete Pipe Laying φ1070 (42")	m	48.00	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	9,055.68	2,443.52	17,012.80	10,606.95	17,905.05	28,512.00	
W0355	Precast Concrete Pipe Removal φ1070 (42")	m	48.00	31.5%	6.4%	62.1%	37.4%	62.6%	183.00	2,766.76	560.49	5,456.75	3,285.89	5,498.11	8,784.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48")	m	0.00	10.9%	68.3%	20.8%	53.4%	46.6%	4,320.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0346	Precast Concrete Pipe Laying φ1220 (48")	m	0.00	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0356	Precast Concrete Pipe Removal φ1220 (48")	m	0.00	31.2%	6.4%	62.4%	37.6%	62.4%	205.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0105	Excavation, Backhoe 0.61m3	m3	1,456.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	2,679.77	5,002.23	51,868.40	31,489.45	28,060.95	59,550.40	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1,456.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	11,178.97	20,002.76	104,371.87	69,697.44	65,856.16	135,553.60	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		1,984.48	5,291.94	5,953.43	6,614.92	6,614.92	13,229.84	1.0%
Total										145,984.41	504,140.59	686,089.05	670,261.12	665,952.92	1,336,214.04	
Components (%)										10.9%	37.7%	51.3%	50.2%	49.8%	100.0%	
Unit Rate			L.S.							146,398.03	505,568.99	688,032.98	672,160.20	667,839.80	1,340,000.00	

Miscellaneous covers the cost for temporary paving, maintenance, safety measures, etc.

SPL 420(2) Realignment of River/Stream

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0105	Excavation, Backhoe 0.61m3	m3	0.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	0.00	0.00	0.00	0.00	0.00	0.00	
W0121	Borrow Soil, transported	m3	10,669.20	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	155,947.97	497,588.50	1,586,995.53	1,082,081.85	1,158,450.15	2,240,532.00	Loss 20.0%
W0149	Filling, Laying & Compaction, bulldozer 211	m3	8,891.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	7,994.79	40,473.61	451,205.80	271,180.69	228,493.51	499,674.20	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	260.10	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	10,600.80	273,974.46	71,761.73	200,122.09	156,214.91	356,337.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	255.00	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	57,000.00	114.00	1,026.00	627.00	57,513.00	58,140.00	
W0236	Concrete Curing (plain concrete)	m3	255.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	1,631.28	200.65	468.18	367.85	1,932.25	2,300.10	
W0240	Formwork (plain concrete H<4m)	m2	510.00	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	67,699.36	45,644.64	896.00	3,335.03	110,904.97	114,240.00	
W0741	Grouted Riprap Class A	m3	557.00	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	64,932.42	260,838.81	85,294.78	196,843.30	214,222.70	411,066.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	40.0%	60.0%		16,570.30	44,187.47	49,710.91	44,187.47	66,281.21	110,468.68	3.0%
Total										382,376.92	1,163,022.13	2,247,358.92	1,798,745.28	1,994,012.70	3,792,757.98	
Components (%)										10.1%	30.7%	59.3%	47.4%	52.6%	100.0%	
Unit Rate			L.S.							382,098.87	1,162,176.42	2,245,724.71	1,797,437.29	1,992,562.71	3,790,000.00	

Miscellaneous covers the cost for temporary shoring, revetment, maintenance, safety measures, etc.

SPL 420(3) False Works Required for Cantilever Construction for PC Box Girder (Angat River)

Unit: 1.00 L.S.

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		
W0651	Temporary Support at Pier Head for Cantilever Construction	v-m3	5.10	34.7%	17.7%	47.6%	35.2%	64.8%	428.00	758.11	385.60	1,039.09	767.55	1,415.25	2,182.80	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	299.20	24.7%	44.4%	30.9%	39.0%	61.0%	7,880.00	581,578.97	1,047,819.27	728,297.76	920,456.47	1,437,239.53	2,357,696.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v-m3	1,293.20	29.5%	29.9%	40.5%	37.3%	62.7%	173.00	66,105.06	66,899.95	90,718.59	83,486.72	140,236.88	223,723.60	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	42.20	24.9%	29.1%	46.0%	39.7%	60.3%	8,370.00	87,956.19	102,853.42	162,404.39	140,267.98	212,946.02	353,214.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v-m3	185.10	28.4%	28.6%	43.0%	37.8%	62.2%	180.00	9,451.95	9,530.76	14,335.29	12,601.82	20,716.18	33,318.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v-m3	3,622.50	21.7%	40.5%	37.9%	41.1%	58.9%	94.20	73,923.23	138,121.28	129,194.98	140,216.62	201,022.88	341,239.50	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v-m3	530.60	30.1%	28.7%	41.2%	37.1%	62.9%	169.00	26,991.35	25,717.84	36,962.21	33,249.87	56,421.53	89,671.40	
W0661	Assembly & Disassembly of Form Traveler	set	12.00	23.7%	17.7%	58.6%	40.9%	59.1%	337,000.00	958,516.49	717,027.32	2,368,456.19	1,652,729.14	2,391,270.86	4,044,000.00	
W0662	Form Traveler Shifting	time	96.00	78.7%	12.8%	8.5%	10.6%	89.4%	2,120.00	160,251.97	25,960.82	17,307.21	21,634.02	181,885.98	203,520.00	
W0663	Form Traveler Lifting	time	96.00	100.0%	0.0%	0.0%	0.0%	100.0%	5,070.00	486,720.00	0.00	0.00	0.00	486,720.00	486,720.00	
W0664	Form Traveler Pulling Back	m	376.00	100.0%	0.0%	0.0%	0.0%	100.0%	116.00	43,616.00	0.00	0.00	0.00	43,616.00	43,616.00	
Q1521-014	PC Bridge Cantilever Construction Form Traveler, W≤14m	day	1,393.00	0.0%	0.0%	100.0%	60.9%	39.1%	16,700.00	0.00	0.00	23,263,100.00	14,178,100.34	9,084,999.66	23,263,100.00	
	Miscellaneous	LS	1.00	5.0%	40.0%	55.0%	50.0%	50.0%		31,442.00	251,536.01	345,862.01	314,420.01	314,420.01	628,840.03	2.0%
Total										2,527,311.32	2,385,852.27	27,157,677.73	17,497,930.54	14,572,910.79	32,070,841.33	
Components (%)										7.9%	7.4%	84.7%	54.6%	45.4%	100.0%	
Unit Rate										2,529,609.14	2,388,021.48	27,182,369.38	17,513,839.58	14,586,160.42	32,100,000.00	

Miscellaneous covers the cost for the depreciation of minor tools and equipment, etc.

SPL 420(4)a Temporary Craneway for Angat Bridge Construction

Unit: 416.00 m

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		
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	5,845.50	10.4%	13.5%	76.1%	49.8%	50.2%	117.00	71,243.01	92,311.96	520,368.53	340,925.47	342,998.03	683,923.50	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	5,845.50	10.3%	13.4%	76.2%	49.9%	50.1%	102.00	61,690.92	80,056.78	454,493.31	297,393.91	298,847.09	596,241.00	
W0421	Temporary Access Bridge Superstructure Installation	t	568.60	21.9%	8.0%	70.1%	43.2%	56.8%	1,450.00	180,547.15	65,707.78	578,215.07	356,120.22	468,349.78	824,470.00	
W0422	Temporary Access Bridge Superstructure Removal	t	568.60	23.4%	8.2%	68.4%	42.4%	57.6%	1,010.00	134,446.97	47,167.38	392,671.66	243,216.90	331,069.10	574,286.00	
W0415	Temporary Deck Plate Installation	m2	4,784.00	35.7%	5.8%	58.5%	35.5%	64.5%	78.70	134,354.86	21,965.15	220,180.79	133,744.52	242,756.28	376,500.80	
W0416	Temporary Deck Plate Removal	m2	4,784.00	35.7%	5.8%	58.5%	35.5%	64.5%	43.00	73,356.52	12,006.02	120,349.47	73,103.93	132,608.07	205,712.00	
W0423	Temporary Access Bridge Railing Installation	m	1,196.00	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	46,335.91	8,544.48	71,895.61	44,482.05	82,293.95	126,776.00	
W0424	Temporary Access Bridge Railing Removal	m	1,196.00	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	26,405.24	3,682.85	38,442.72	23,306.94	45,223.86	68,530.80	
W05041	Temporary Steel Shapes Depreciation	t-d	624,576.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	19,549,228.80	0.00	9,774,614.40	9,774,614.40	19,549,228.80	
W05051	Temporary Deck Plate Depreciation	m2-d	2,296,320.00	0.0%	100.0%	0.0%	50.0%	50.0%	11.10	0.00	25,489,152.00	0.00	12,744,576.00	12,744,576.00	25,489,152.00	
W05055	Temporary Pipe Railing Depreciation	m-d	574,060.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	763,526.40	0.00	381,763.20	381,763.20	763,526.40	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	55.0%	45.0%		73,887.52	197,033.39	221,662.56	270,920.91	221,662.56	492,583.47	1.0%
Total										802,268.09	46,330,382.98	2,618,279.70	24,684,168.44	25,066,762.33	49,750,930.77	
Components (%)										1.6%	93.1%	5.3%	49.6%	50.4%	100.0%	
Unit Rate										1,935.08	111,749.59	6,315.33	59,538.59	60,461.41	120,000.00	

Miscellaneous covers the costs for material haulage, maintenance, etc.

H-Pile = 7,794.0 m 732.6 t Pile Driving Length = 5,845.5 m
 Superstructure = 568.6 t Deck Plate = 4,784.0 m2
 Depreciation Period = 480 days Railing = 1,196.0 m

SPL 420(4)b Temporary Craneway for Pampanga Bridge Construction

Unit: 320.00 m

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		
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	3,290.60	10.4%	13.5%	76.1%	49.8%	50.2%	117.00	40,104.74	51,965.06	292,930.41	191,916.75	193,083.45	385,000.20	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	3,290.60	10.3%	13.4%	76.2%	49.9%	50.1%	102.00	34,727.59	45,066.26	255,847.35	167,411.58	168,229.62	335,641.20	
W0421	Temporary Access Bridge Superstructure Installation	t	428.90	21.9%	8.0%	70.1%	43.2%	56.8%	1,450.00	136,188.31	49,563.96	436,152.73	268,624.62	353,280.38	621,905.00	
W0422	Temporary Access Bridge Superstructure Removal	t	428.90	23.4%	8.2%	68.4%	42.4%	57.6%	1,010.00	101,414.53	35,578.77	296,195.70	183,460.65	249,728.35	433,189.00	
W0415	Temporary Deck Plate Installation	m2	3,470.00	35.7%	5.8%	58.5%	35.5%	64.5%	78.70	97,452.21	15,932.08	159,704.71	97,009.51	176,079.49	273,089.00	
W0416	Temporary Deck Plate Removal	m2	3,470.00	35.7%	5.8%	58.5%	35.5%	64.5%	43.00	53,208.01	8,708.38	87,293.61	53,024.80	96,185.20	149,210.00	
W0423	Temporary Access Bridge Railing Installation	m	900.00	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	34,868.16	6,429.79	54,102.05	33,473.12	61,926.88	95,400.00	
W0424	Temporary Access Bridge Railing Removal	m	900.00	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	19,870.16	2,771.37	28,928.47	17,538.67	34,031.33	51,570.00	
M05041	Temporary Steel Shapes Depreciation	t-d	504,780.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	15,799,614.00	0.00	7,899,807.00	7,899,807.00	15,799,614.00	
M05051	Temporary Deck Plate Depreciation	m2-d	2,082,000.00	0.0%	100.0%	0.0%	50.0%	50.0%	11.10	0.00	23,110,200.00	0.00	11,555,100.00	11,555,100.00	23,110,200.00	
M05055	Temporary Pipe Railing Depreciation	m-d	540,000.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	718,200.00	0.00	359,100.00	359,100.00	718,200.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	55.0%	45.0%		62,959.53	167,892.07	188,878.58	230,851.60	188,878.58	419,730.18	1.0%
Total										580,793.24	40,011,921.75	1,800,033.60	21,057,318.29	21,335,430.29	42,392,748.58	
Components (%)										1.4%	94.4%	4.2%	49.7%	50.3%	100.0%	
Unit Rate		m								1,808.44	124,586.72	5,604.84	65,567.02	66,432.98	132,000.00	

Miscellaneous covers the cost for material haulage, maintenance, etc.

H-Pile = 4,387.5 m 412.4 t Pile Driving Length = 3,290.6 m
 Superstructure = 428.9 t Deck Plate = 3,470.0 m2
 Depreciation Period = 600 days Railing = 900.0 m

SPL 420(4)c Temporary Craneway for Talavera Bridge Construction

Unit: 80.00 m

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		
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	1,042.88	10.4%	13.5%	76.1%	49.8%	50.2%	117.00	12,710.21	16,469.05	92,837.11	60,823.31	61,193.07	122,016.38	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	1,042.88	10.3%	13.4%	76.2%	49.9%	50.1%	102.00	11,006.06	14,282.65	81,084.54	53,057.00	53,316.25	106,373.25	
W0421	Temporary Access Bridge Superstructure Installation	t	126.00	21.9%	8.0%	70.1%	43.2%	56.8%	1,450.00	40,010.21	14,561.19	128,135.53	78,918.13	103,788.80	182,706.93	
W0422	Temporary Access Bridge Superstructure Removal	t	126.00	23.4%	8.2%	68.4%	42.4%	57.6%	1,010.00	29,794.16	10,452.54	87,018.13	53,898.16	73,366.67	127,264.83	
W0415	Temporary Deck Plate Installation	m2	1,004.00	35.7%	5.8%	58.5%	35.5%	64.5%	78.70	28,196.55	4,609.74	46,208.51	28,068.46	50,946.34	79,014.80	
W0416	Temporary Deck Plate Removal	m2	1,004.00	35.7%	5.8%	58.5%	35.5%	64.5%	43.00	15,395.05	2,519.66	25,257.29	15,342.05	27,829.95	43,172.00	
W0423	Temporary Access Bridge Railing Installation	m	264.00	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	10,227.99	1,886.07	15,869.93	9,818.78	18,165.22	27,984.00	
W0424	Temporary Access Bridge Railing Removal	m	264.00	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	5,828.58	812.94	8,485.68	5,144.68	9,982.52	15,127.20	
M05041	Temporary Steel Shapes Depreciation	t-d	100,117.59	0.0%	100.0%	0.0%	50.0%	50.0%	-31.30	0.00	3,133,680.57	0.00	1,566,840.29	1,566,840.29	3,133,680.57	
M05051	Temporary Deck Plate Depreciation	m2-d	391,560.00	0.0%	100.0%	0.0%	50.0%	50.0%	11.10	0.00	4,346,316.00	0.00	2,173,158.00	2,173,158.00	4,346,316.00	
M05055	Temporary Pipe Railing Depreciation	m-d	102,960.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	136,936.80	0.00	68,468.40	68,468.40	136,936.80	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	55.0%	45.0%		12,480.89	33,282.37	37,442.67	45,763.26	37,442.67	83,205.93	1.0%
Total										165,649.71	7,715,809.58	522,339.40	4,159,300.50	4,244,498.19	8,403,798.69	
Components (%)										2.0%	91.8%	6.2%	49.5%	50.5%	100.0%	
Unit Rate		m								2,069.69	96,404.02	6,526.29	51,967.76	53,032.24	105,000.00	

Miscellaneous covers the cost for material haulage, maintenance, etc.

H-Pile = 1,390.5 m 130.7 t Pile Driving Length = 1,042.9 m
 Superstructure = 126.0 t Deck Plate = 1,004.0 m2
 Depreciation Period = 390 days Railing = 264.0 m

SPL 420(5)a Temporary Access Road (Causeway) for Angat Bridge Construction

Unit: 710.00 m

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		
W0121	Borrow Soil, transported	m3	14,179.50	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	207,256.80	661,301.32	2,109,136.87	1,438,100.29	1,539,594.71	2,977,695.00	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	12,330.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	11,087.14	56,128.63	625,730.24	376,072.20	316,873.80	692,946.00	
W0122	Crushed Aggregate, transported	m3	1,339.75	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	32,249.61	54,348.46	263,076.68	164,373.52	185,301.23	349,674.75	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1,165.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	1,047.57	5,303.31	59,122.12	35,533.18	29,939.82	65,473.00	
W0105	Excavation, Backhoe 0.61m3	m3	13,495.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	24,837.55	46,363.42	490,744.53	291,861.38	260,084.12	551,945.50	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13,495.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	103,612.77	185,396.46	967,375.27	645,993.81	610,390.69	1,256,384.50	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		8,841.18	23,576.48	26,523.53	26,523.53	32,417.65	58,941.19	1.0%
	Total									388,932.61	1,032,418.08	4,531,709.24	2,978,457.92	2,974,602.02	5,953,059.94	
	Components (%)									6.5%	17.3%	76.1%	50.0%	50.0%	100.0%	
	Unit Rate	m								547.49	1,453.31	6,379.19	4,192.71	4,187.29	8,380.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(5)b Temporary Access Road (Causeway) for Pampanga Bridge Construction

Unit: 880.00 m

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		
W0121	Borrow Soil, transported	m3	14,099.00	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	206,080.16	657,546.98	2,097,162.86	1,429,935.89	1,530,854.11	2,960,790.00	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	12,260.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	11,024.19	55,809.97	622,177.84	373,937.16	315,074.84	689,012.00	
W0122	Crushed Aggregate, transported	m3	1,660.60	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	39,972.91	67,364.10	326,079.59	203,738.51	229,678.09	433,416.60	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1,444.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	1,298.44	6,573.38	73,280.98	44,042.84	37,109.96	81,152.80	
W0105	Excavation, Backhoe 0.61m3	m3	13,704.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	25,222.21	47,081.46	488,189.93	296,381.50	264,112.10	560,493.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13,704.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	105,217.44	188,267.74	982,357.22	655,998.46	619,843.94	1,275,842.40	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		9,001.06	24,002.83	27,003.18	27,003.18	33,003.89	60,007.07	1.0%
	Total									397,816.42	1,016,646.45	4,616,251.60	3,031,037.55	3,029,676.92	6,060,714.47	
	Components (%)									6.6%	17.3%	76.2%	50.0%	50.0%	100.0%	
	Unit Rate	m								452.25	1,189.86	5,247.89	3,445.77	3,444.23	6,890.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(5)c Temporary Access Road (Causeway) for Talavera Bridge Construction

Unit: 300.00 m

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		
W0121	Borrow Soil, transported	m3	7,762.50	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	113,461.75	362,026.27	1,154,636.97	787,281.18	842,843.82	1,630,125.00	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	6,750.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	6,069.60	30,727.35	342,553.05	205,878.94	173,471.06	379,350.00	
W0122	Crushed Aggregate, transported	m3	565.80	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	13,619.58	22,952.31	111,101.91	69,417.83	78,255.97	147,673.80	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	492.00	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	442.41	2,239.68	24,968.31	15,006.29	12,644.11	27,650.40	
W0105	Excavation, Backhoe 0.61m3	m3	7,242.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	13,328.90	24,880.62	257,988.28	156,625.42	139,572.38	296,197.80	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	7,242.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	55,603.09	99,491.75	519,135.36	346,668.19	327,562.01	674,230.20	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		4,732.84	12,620.91	14,198.52	14,198.52	17,353.75	31,552.27	1.0%
	Total									207,258.17	554,938.89	2,424,582.41	1,595,076.38	1,591,703.10	3,186,779.47	
	Components (%)									6.5%	17.4%	76.1%	50.1%	49.9%	100.0%	
	Unit Rate	m								689.39	1,845.86	8,064.75	5,305.61	5,294.39	10,600.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)a Temporary Cofferdam for Pier Construction (Angat Bridge Type 1)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0451	Temporary Sheet Pile Driving for cofferdam. (Vibro Hammer)	m	3,494.00	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	42,999.28	65,019.68	332,225.04	221,649.00	218,595.00	440,244.00	
W0452	Temporary Sheet Pile Removal for cofferdam. (Vibro Hammer)	m	3,494.00	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	26,604.70	40,222.40	205,006.10	136,839.29	134,993.91	271,833.20	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	1,812.53	2,740.27	13,923.20	9,299.12	9,176.88	18,476.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	1,046.75	1,582.18	8,010.27	5,353.67	5,285.53	10,639.20	
W0413	Temporary Struts & Tie Rod Installation	t	61.60	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	81,786.77	28,795.41	150,601.82	99,649.26	161,534.74	261,184.00	
W0414	Temporary Struts & Supports Removal	t	61.60	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	38,245.71	12,325.08	80,637.21	51,320.64	79,887.36	131,208.00	
W0423	Temporary Access Bridge Railing Installation	m	49.20	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	1,906.13	351.50	2,957.58	1,829.86	3,385.34	5,215.20	
W0424	Temporary Access Bridge Railing Removal	m	49.20	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	1,086.24	151.50	1,581.42	958.78	1,860.38	2,819.16	
W05031	Temporary Sheet Pile Depreciation	t-d	20,045.00	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	667,498.50	0.00	333,749.25	333,749.25	667,498.50	
W05041	Temporary Steel Shapes Depreciation	t-d	4,551.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	142,446.30	0.00	71,223.15	71,223.15	142,446.30	
W05055	Temporary Pipe Railing Depreciation	m-d	4,200.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	5,586.00	0.00	2,793.00	2,793.00	5,586.00	
W0431	Temporary Drain Pump Installation & Removal	set	1.00	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	5,913.12	14,795.43	50,691.45	36,606.04	34,793.96	71,400.00	
W0121	Borrow Soil, transported	m3	671.88	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	9,820.64	31,335.04	99,939.13	68,142.80	72,952.00	141,094.80	Loss 10.0%
W0131	Backfill A	m3	610.80	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	1,946.01	4,358.18	47,934.85	28,941.88	25,327.16	54,239.04	
W0105	Excavation, Backhoe 0.61m3	m3	610.80	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	1,124.18	2,098.46	21,759.08	13,210.00	11,771.72	24,981.72	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	610.80	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4,689.64	8,391.27	43,784.57	29,238.46	27,627.02	56,865.48	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		3,462.95	9,234.52	10,388.84	11,543.15	11,543.15	23,086.31	1.0%
	Total									223,799.99	1,037,137.53	1,070,779.38	1,123,178.61	1,208,538.30	2,331,716.91	
	Components (%)									9.6%	44.5%	45.9%	48.2%	51.8%	100.0%	
	Unit Rate	each								223,635.20	1,036,373.86	1,069,990.93	1,122,351.58	1,207,648.42	2,330,000.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)b Temporary Cofferdam for Pier Construction (Angat Bridge Type 2)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0451	Temporary Sheet Pile Driving for cofferdam. (Vibro Hammer)	m	5,020.00	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	61,779.16	93,416.94	477,323.89	318,453.91	314,066.09	632,520.00	
W0452	Temporary Sheet Pile Removal for cofferdam. (Vibro Hammer)	m	5,020.00	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	38,224.27	57,789.48	294,542.25	196,603.67	193,952.33	390,556.00	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	1,812.53	2,740.27	13,923.20	9,299.12	9,176.88	18,476.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	1,046.75	1,582.18	8,010.27	5,353.67	5,285.53	10,639.20	
W0413	Temporary Struts & Tie Rod Installation	t	86.00	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	114,182.82	40,201.39	210,255.79	139,120.72	225,519.28	364,640.00	
W0414	Temporary Struts & Supports Removal	t	86.00	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	53,394.98	17,207.09	112,577.93	71,648.94	111,531.06	183,180.00	
W0423	Temporary Access Bridge Railing Installation	m	52.80	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	2,045.60	377.21	3,173.99	1,963.76	3,633.04	5,596.80	
W0424	Temporary Access Bridge Railing Removal	m	52.80	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	1,165.72	162.59	1,697.14	1,028.94	1,996.50	3,025.44	
W05031	Temporary Sheet Pile Depreciation	t-d	22,921.00	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	763,269.30	0.00	381,634.65	381,634.65	763,269.30	
W05041	Temporary Steel Shapes Depreciation	t-d	6,019.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	188,394.70	0.00	94,197.35	94,197.35	188,394.70	
W05055	Temporary Pipe Railing Depreciation	m-d	3,168.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	4,213.44	0.00	2,106.72	2,106.72	4,213.44	
W0431	Temporary Drain Pump Installation & Removal	set	1.00	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	5,913.12	14,795.43	50,691.45	36,606.04	34,793.96	71,400.00	
W0121	Borrow Soil, transported	m3	770.88	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	11,267.68	35,952.18	114,664.93	78,183.49	83,701.31	161,884.80	Loss 10.0%
W0131	Backfill A	m3	700.80	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	2,232.75	5,000.35	54,997.94	33,171.98	29,059.06	62,231.04	
W0105	Excavation, Backhoe 0.61m3	m3	700.80	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	1,289.82	2,407.67	24,965.23	15,156.46	13,506.26	28,662.72	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	700.80	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	5,380.65	9,627.70	50,236.13	33,546.68	31,697.80	65,244.48	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		4,435.25	11,827.34	13,305.75	14,784.17	14,784.17	29,568.34	1.0%
	Total									305,526.48	1,249,171.07	1,431,704.71	1,433,721.53	1,552,680.73	2,986,402.26	
	Components (%)									10.2%	41.8%	47.9%	48.0%	52.0%	100.0%	
	Unit Rate	each								305,894.55	1,250,675.96	1,433,429.50	1,435,448.74	1,554,551.26	2,990,000.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)c Temporary Cofferdam for Pier Construction (Pampanga Bridge)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Local		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	3,852.00	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	47,405.05	71,681.69	366,265.27	244,359.46	240,992.54	485,352.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	3,852.00	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	29,330.66	44,343.64	226,011.31	150,860.03	148,825.57	299,685.60	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	1,344.78	2,033.10	10,330.12	6,899.34	6,808.66	13,708.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	776.62	1,173.88	5,943.10	3,972.08	3,921.52	7,893.60	
W0413	Temporary Struts & Tie Rod Installation	t	69.50	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	92,275.65	32,488.33	169,916.02	112,428.96	182,251.04	294,680.00	
W0414	Temporary Struts & Supports Removal	t	69.50	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	43,150.60	13,905.73	90,978.67	57,902.34	90,132.66	148,035.00	
W0423	Temporary Access Bridge Railing Installation	m	52.80	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	2,045.60	377.21	3,173.99	1,963.76	3,633.04	5,096.80	
W0424	Temporary Access Bridge Railing Removal	m	52.80	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	1,165.72	162.59	1,697.14	1,028.94	1,996.50	3,025.44	
W05031	Temporary Sheet Pile Depreciation	t-d	17,588.00	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	585,680.40	0.00	292,840.20	292,840.20	585,680.40	
W05041	Temporary Steel Shapes Depreciation	t-d	4,845.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	151,648.50	0.00	75,824.25	75,824.25	151,648.50	
W05055	Temporary Pipe Railing Depreciation	m-d	3,168.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	4,213.44	0.00	2,106.72	2,106.72	4,213.44	
W0431	Temporary Drain Pump Installation & Removal	set	1.00	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	5,913.12	14,795.43	50,691.45	36,606.04	34,793.96	71,400.00	
W0121	Borrow Soil, transported	m3	818.40	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	11,962.27	38,168.41	121,733.32	83,003.02	88,860.98	171,864.00	Loss 10.0%
W0131	Backfill A	m3	744.00	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	2,370.38	5,308.59	58,388.23	35,216.83	30,850.37	66,067.20	
W0105	Excavation, Backhoe 0.61m3	m3	744.00	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	1,369.33	2,556.09	26,504.18	16,090.76	14,338.84	30,429.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	744.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	5,712.33	10,221.19	53,332.88	35,614.63	33,651.77	69,266.40	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		3,617.17	9,645.78	10,851.51	12,057.23	12,057.23	24,114.46	1.0%
	Total									249,794.64	988,609.82	1,197,155.99	1,169,635.84	1,265,924.60	2,435,560.44	
	Components (%)									10.3%	40.6%	49.2%	48.0%	52.0%	100.0%	
	Unit Rate	each								250,249.97	990,411.86	1,199,338.17	1,171,767.86	1,268,232.14	2,440,000.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)d Temporary Cofferdam for Pier Construction (Talavera Bridge)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Local		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	2,470.00	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	30,397.32	45,964.11	234,858.57	156,689.48	154,530.52	311,220.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	2,470.00	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	18,807.56	28,434.26	144,924.18	96,735.27	95,430.73	192,166.00	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	1,344.78	2,033.10	10,330.12	6,899.34	6,808.66	13,708.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	776.62	1,173.88	5,943.10	3,972.08	3,921.52	7,893.60	
W0413	Temporary Struts & Tie Rod Installation	t	37.40	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	49,656.25	17,482.93	91,436.82	60,501.34	98,074.66	158,576.00	
W0414	Temporary Struts & Supports Removal	t	37.40	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	23,220.61	7,483.08	48,958.31	31,158.96	48,503.04	79,662.00	
W0423	Temporary Access Bridge Railing Installation	m	49.10	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	1,902.25	350.78	2,951.57	1,826.14	3,378.46	5,204.60	
W0424	Temporary Access Bridge Railing Removal	m	49.10	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	1,084.03	151.19	1,578.21	956.83	1,856.60	2,813.43	
W05031	Temporary Sheet Pile Depreciation	t-d	15,369.00	0.0%	100.0%	0.0%	50.0%	50.0%	33.30	0.00	511,787.70	0.00	255,893.85	255,893.85	511,787.70	
W05041	Temporary Steel Shapes Depreciation	t-d	2,918.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	91,333.40	0.00	45,666.70	45,666.70	91,333.40	
W05055	Temporary Pipe Railing Depreciation	m-d	2,943.00	0.0%	100.0%	0.0%	50.0%	50.0%	1.33	0.00	3,914.19	0.00	1,957.10	1,957.10	3,914.19	
W0431	Temporary Drain Pump Installation & Removal	set	1.00	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	5,913.12	14,795.43	50,691.45	36,606.04	34,793.96	71,400.00	
W0121	Borrow Soil, transported	m3	587.95	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	8,593.86	27,420.72	87,454.92	59,630.53	63,838.97	123,469.50	Loss 10.0%
W0131	Backfill A	m3	534.50	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	1,702.92	3,813.76	41,946.92	25,300.26	22,163.34	47,463.60	
W0105	Excavation, Backhoe 0.61m3	m3	534.50	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	983.75	1,836.23	19,040.97	11,559.83	10,301.22	21,861.05	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	534.50	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4,103.82	7,343.05	38,315.09	25,586.05	24,175.90	49,761.95	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		2,542.70	6,780.54	7,628.11	8,475.68	8,475.68	16,951.35	1.0%
	Total									152,384.95	772,304.28	787,397.14	830,276.73	881,809.64	1,712,036.37	
	Components (%)									8.9%	45.1%	46.0%	48.5%	51.5%	100.0%	
	Unit Rate	each								152,199.25	771,363.14	786,437.61	829,264.94	880,735.06	1,710,000.00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

Part G Drainage and Slope Protection Structures

500(1)a3 RCPC Standard Strength (25MPa), φ 460mm (18")

Unit: 10.00 m

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		
W0303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 460 (18")	m	10.00	9.8%	66.4%	23.8%	53.4%	46.6%	528.00	516.09	3,507.30	1,256.61	2,821.08	2,458.92	5,280.00	
W0341	Precast Concrete Pipe Laying φ 460 (18")	m	10.00	47.4%	8.0%	44.6%	28.7%	71.3%	202.00	957.45	162.59	899.96	580.02	1,439.98	2,020.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,473.54	3,669.90	2,156.57	3,401.11	3,898.89	7,300.00	
Components (%)										20.2%	50.3%	29.5%	46.6%	53.4%	100.0%	
Unit Rate			m							147.35	366.99	215.66	340.11	389.89	730.00	

500(1)a4 RCPC Standard Strength (25MPa), φ 610mm (24")

Unit: 10.00 m

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		
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 610 (24")	m	10.00	10.0%	66.7%	23.3%	53.4%	46.6%	870.00	871.40	5,800.39	2,028.20	4,645.96	4,054.04	8,700.00	
W0342	Precast Concrete Pipe Laying φ 610 (24")	m	10.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	1,132.54	201.69	1,125.77	724.95	1,735.05	2,460.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,003.95	6,002.08	3,153.97	5,370.92	5,789.08	11,160.00	
Components (%)										18.0%	53.8%	28.3%	48.1%	51.9%	100.0%	
Unit Rate			m							201.11	602.36	316.53	539.02	580.98	1,120.00	

500(1)a5 RCPC Standard Strength (25MPa), φ 760mm (30")

Unit: 10.00 m

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		
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 760 (30")	m	10.00	10.2%	66.8%	23.1%	53.4%	46.6%	1,300.00	1,320.32	8,681.85	2,997.84	6,939.87	6,060.13	13,000.00	
W0343	Precast Concrete Pipe Laying φ 760 (30")	m	10.00	47.3%	8.1%	44.6%	28.7%	71.3%	303.00	1,434.48	244.08	1,351.44	870.97	2,159.03	3,030.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,754.80	8,925.93	4,349.28	7,810.84	8,219.16	16,030.00	
Components (%)										17.2%	55.7%	27.1%	48.7%	51.3%	100.0%	
Unit Rate			m							274.96	892.92	434.11	779.62	820.38	1,600.00	

500(1)a6 RCPC Standard Strength (25MPa), φ 910mm (36")

Unit: 10.00 m

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		
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 910 (36")	m	10.00	10.6%	67.2%	22.2%	53.3%	46.7%	1,990.00	2,112.39	13,374.42	4,413.19	10,611.84	9,288.16	19,900.00	
W0344	Precast Concrete Pipe Laying φ 910 (36")	m	10.00	31.3%	8.6%	60.1%	37.5%	62.5%	516.00	1,614.69	444.41	3,100.89	1,932.96	3,227.04	5,160.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,727.08	13,818.83	7,514.09	12,544.79	12,515.21	25,060.00	
Components (%)										14.9%	55.1%	30.0%	50.1%	49.9%	100.0%	
Unit Rate			m							373.30	1,384.09	752.61	1,256.48	1,253.52	2,510.00	

500(1)a7 RCPC Standard Strength (25MPa), φ 1070mm (42")

Unit: 10.00 m

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		
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1070 (42")	m	10.00	10.6%	67.2%	22.2%	53.3%	46.7%	2,610.00	2,773.72	17,544.86	5,781.42	13,917.70	12,182.30	26,100.00	
W0345	Precast Concrete Pipe Laying φ 1070 (42")	m	10.00	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	1,886.60	509.07	3,544.33	2,209.78	3,730.22	5,940.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,660.32	18,053.93	9,325.76	16,127.48	15,912.52	32,040.00	
Components (%)										14.5%	56.3%	29.1%	50.3%	49.7%	100.0%	
Unit Rate			m							465.45	1,803.14	931.41	1,610.73	1,589.27	3,200.00	

500(1)a8 RCPC Standard Strength (25MPa), ϕ 1220mm (48")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1220 (48")	m	10.00	10.6%	67.2%	22.2%	53.3%	46.7%	3,280.00	3,478.78	22,040.49	7,280.73	17,491.21	15,308.79	32,800.00	
W0346	Precast Concrete Pipe Laying ϕ 1220 (48")	m	10.00	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	2,093.80	571.58	3,984.63	2,484.02	4,165.98	6,650.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,572.58	22,612.07	11,265.35	19,975.24	19,474.76	39,450.00	
Components (%)										14.1%	57.3%	28.6%	50.6%	49.4%	100.0%	
Unit Rate			m							557.96	2,264.07	1,127.96	2,000.06	1,949.94	3,950.00	

500(1)a9 RCPC Standard Strength (25MPa), ϕ 1520mm (60")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1520 (60")	m	10.00	10.6%	67.2%	22.2%	53.3%	46.7%	4,900.00	5,206.09	32,936.79	10,857.12	26,129.16	22,870.84	49,000.00	
W0347	Precast Concrete Pipe Laying ϕ 1520 (60")	m	10.00	27.1%	8.5%	64.4%	39.8%	60.2%	938.00	2,546.27	793.68	6,040.05	3,734.39	5,645.61	9,380.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										7,752.37	33,730.47	16,897.17	29,863.55	28,516.45	58,380.00	
Components (%)										13.3%	57.8%	28.9%	51.2%	48.8%	100.0%	
Unit Rate			m							775.50	3,374.20	1,690.30	2,987.38	2,852.62	5,840.00	

500(1)b3 RCPC Standard Strength (32MPa), ϕ 460mm (18")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 460 (18")	m	10.00	10.5%	68.4%	21.1%	53.5%	46.5%	581.00	610.09	3,973.54	1,226.37	3,108.77	2,701.23	5,810.00	
W0341	Precast Concrete Pipe Laying ϕ 460 (18")	m	10.00	47.4%	8.0%	44.6%	28.7%	71.3%	202.00	957.45	162.59	899.96	580.02	1,439.98	2,020.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,567.54	4,136.13	2,126.33	3,688.79	4,141.21	7,830.00	
Components (%)										20.0%	52.8%	27.2%	47.1%	52.9%	100.0%	
Unit Rate			m							156.75	413.61	212.63	368.88	414.12	783.00	

500(1)b4 RCPC Standard Strength (32MPa), ϕ 610mm (24")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 610 (24")	m	10.00	10.5%	68.4%	21.2%	53.5%	46.5%	953.00	996.29	6,516.47	2,017.24	5,100.06	4,429.94	9,530.00	
W0342	Precast Concrete Pipe Laying ϕ 610 (24")	m	10.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	1,132.54	201.69	1,125.77	724.95	1,735.05	2,460.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,128.83	6,718.17	3,143.00	5,825.02	6,164.98	11,990.00	
Components (%)										17.8%	56.0%	26.2%	48.6%	51.4%	100.0%	
Unit Rate			m							213.06	672.38	314.56	582.99	617.01	1,200.00	

500(1)b5 RCPC Standard Strength (32MPa), ϕ 760mm (30")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 760 (30")	m	10.00	10.3%	68.3%	21.4%	53.5%	46.5%	1,330.00	1,373.41	9,081.30	2,845.29	7,120.21	6,179.79	13,300.00	
W0343	Precast Concrete Pipe Laying ϕ 760 (30")	m	10.00	47.3%	8.1%	44.6%	28.7%	71.3%	303.00	1,434.48	244.08	1,351.44	870.97	2,159.03	3,030.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,807.89	9,325.38	4,196.73	7,991.18	8,338.82	16,330.00	
Components (%)										17.2%	57.1%	25.7%	48.9%	51.1%	100.0%	
Unit Rate			m							280.77	930.82	418.90	797.65	832.35	1,630.00	

500(1)b6 RCPC Standard Strength (32MPa), φ910mm (36")											Unit: 10.00 m				
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)
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ910 (36")	m	10.00	10.9%	68.6%	20.4%	53.4%	46.6%	2,140.00	2,342.77	14,686.92	4,370.31	11,433.72	9,966.28	21,400.00
W0344	Precast Concrete Pipe Laying φ910 (36")	m	10.00	31.3%	8.6%	60.1%	37.5%	62.5%	516.00	1,614.69	444.41	3,100.89	1,932.96	3,227.04	5,160.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									3,957.46	15,131.33	7,471.20	13,366.68	13,193.32	26,560.00
	Components (%)									14.9%	57.0%	28.1%	50.3%	49.7%	100.0%
	Unit Rate									396.34	1,515.41	748.25	1,338.68	1,321.32	2,660.00

500(1)b7 RCPC Standard Strength (32MPa), φ1070mm (42")											Unit: 10.00 m				
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)
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1070 (42")	m	10.00	10.9%	68.6%	20.5%	53.4%	46.6%	2,700.00	2,935.55	18,521.91	5,542.52	14,429.55	12,570.45	27,000.00
W0345	Precast Concrete Pipe Laying φ1070 (42")	m	10.00	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	1,886.60	509.07	3,544.33	2,209.78	3,730.22	5,940.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									4,822.14	19,031.00	9,086.85	16,639.33	16,300.67	32,940.00
	Components (%)									14.6%	57.8%	27.6%	50.5%	49.5%	100.0%
	Unit Rate									481.63	1,900.79	907.58	1,661.91	1,628.09	3,290.00

500(1)b8 RCPC Standard Strength (32MPa), φ1220mm (48")											Unit: 10.00 m				
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)
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1220 (48")	m	10.00	10.9%	68.6%	20.5%	53.4%	46.6%	3,500.00	3,805.41	24,003.91	7,190.68	18,704.33	16,295.67	35,000.00
W0346	Precast Concrete Pipe Laying φ1220 (48")	m	10.00	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	2,093.80	571.58	3,984.63	2,484.02	4,165.98	6,650.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									5,899.21	24,575.49	11,175.30	21,188.35	20,461.65	41,650.00
	Components (%)									14.2%	59.0%	26.8%	50.9%	49.1%	100.0%
	Unit Rate									590.63	2,460.50	1,118.87	2,121.38	2,048.62	4,170.00

500(1)b9 RCPC Standard Strength (32MPa), φ1520mm (60")											Unit: 10.00 m				
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)
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1520 (60")	m	10.00	10.9%	68.6%	20.4%	53.4%	46.6%	5,200.00	5,688.21	35,687.73	10,626.06	27,784.35	24,215.65	52,000.00
W0347	Precast Concrete Pipe Laying φ1520 (60")	m	10.00	27.1%	8.5%	64.4%	39.8%	60.2%	938.00	2,546.27	793.68	6,040.05	3,734.39	5,645.61	9,380.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									8,232.48	36,481.40	16,666.11	31,518.73	29,861.27	61,380.00
	Components (%)									13.4%	59.4%	27.2%	51.4%	48.6%	100.0%
	Unit Rate									823.52	3,649.33	1,667.15	3,162.90	2,987.10	6,140.00

500(1)c3 RCPC Extra Strength (32MPa), φ460mm (18")											Unit: 10.00 m				
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)
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ460 (18")	m	10.00	10.5%	68.4%	21.1%	53.5%	46.5%	749.00	786.93	5,122.75	1,580.32	4,007.53	3,482.47	7,490.00
W0341	Precast Concrete Pipe Laying φ460 (18")	m	10.00	47.4%	8.0%	44.6%	28.7%	71.3%	202.00	957.45	162.59	899.96	580.02	1,439.98	2,020.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,744.38	5,285.35	2,480.27	4,587.55	4,922.45	9,510.00
	Components (%)									18.3%	55.6%	26.1%	48.2%	51.8%	100.0%
	Unit Rate									174.44	528.53	248.03	458.76	492.24	951.00

500(1)c4 RCPC Extra Strength (32MPa), ϕ 610mm (24")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 610 (24")	m	10.00	10.3%	68.3%	21.3%	53.5%	46.5%	1,110.00	1,148.77	7,583.15	2,368.08	5,942.19	5,157.81	11,100.00	
W0342	Precast Concrete Pipe Laying ϕ 610 (24")	m	10.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	1,132.54	201.69	1,125.77	724.95	1,735.05	2,460.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,281.31	7,784.84	3,493.85	6,667.14	6,892.86	13,560.00	
Components (%)										16.8%	57.4%	25.8%	49.2%	50.8%	100.0%	
Unit Rate			m							228.80	780.78	350.42	668.68	691.32	1,360.00	

500(1)c5 RCPC Extra Strength (32MPa), ϕ 760mm (30")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 760 (30")	m	10.00	10.5%	68.4%	21.2%	53.5%	46.5%	1,650.00	1,725.08	11,279.58	3,495.34	8,829.85	7,670.15	16,500.00	
W0343	Precast Concrete Pipe Laying ϕ 760 (30")	m	10.00	47.3%	8.1%	44.6%	28.7%	71.3%	303.00	1,434.48	244.08	1,351.44	870.97	2,159.03	3,030.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,159.56	11,523.66	4,846.78	9,709.83	9,829.17	19,530.00	
Components (%)										16.2%	59.0%	24.8%	49.7%	50.3%	100.0%	
Unit Rate			m							315.47	1,150.60	483.93	968.59	981.41	1,950.00	

500(1)c6 RCPC Extra Strength (32MPa), ϕ 910mm (36")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication ϕ 910 (36")	m	10.00	10.9%	68.3%	20.8%	53.4%	46.6%	2,640.00	2,886.75	18,030.53	5,482.72	14,103.22	12,296.78	26,400.00	
W0344	Precast Concrete Pipe Laying ϕ 910 (36")	m	10.00	31.3%	8.6%	60.1%	37.5%	62.5%	516.00	1,614.69	444.41	3,100.89	1,932.96	3,227.04	5,160.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,501.45	18,474.95	8,583.61	16,036.17	15,523.83	31,560.00	
Components (%)										14.3%	58.5%	27.2%	50.8%	49.2%	100.0%	
Unit Rate			m							450.72	1,849.84	859.45	1,605.65	1,554.35	3,160.00	

500(1)c7 RCPC Extra Strength (32MPa), ϕ 1070mm (42")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1070 (42")	m	10.00	11.3%	68.6%	20.1%	53.4%	46.6%	3,960.00	4,485.34	27,153.39	7,961.28	21,129.04	18,470.96	39,600.00	
W0345	Precast Concrete Pipe Laying ϕ 1070 (42")	m	10.00	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	1,886.60	509.07	3,544.33	2,209.78	3,730.22	5,940.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,371.93	27,662.45	11,505.61	23,338.82	22,201.18	45,540.00	
Components (%)										14.0%	60.7%	25.3%	51.2%	48.8%	100.0%	
Unit Rate			m							636.63	2,763.82	1,149.55	2,331.83	2,218.17	4,550.00	

500(1)c8 RCPC Extra Strength (32MPa), ϕ 1220mm (48")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1220 (48")	m	10.00	10.9%	68.3%	20.8%	53.4%	46.6%	4,320.00	4,708.02	29,493.96	8,998.02	23,080.63	20,119.37	43,200.00	
W0346	Precast Concrete Pipe Laying ϕ 1220 (48")	m	10.00	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	2,093.80	571.58	3,984.63	2,484.02	4,165.98	6,650.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,801.82	30,065.54	12,982.64	25,564.65	24,285.35	49,850.00	
Components (%)										13.6%	60.3%	26.0%	51.3%	48.7%	100.0%	
Unit Rate			m							680.86	3,009.57	1,299.57	2,559.03	2,430.97	4,990.00	

500(1)c9 RCPC Extra Strength (32MPa), ϕ 1520mm (60")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1520 (60")	m	10.00	11.3%	68.4%	20.3%	53.4%	46.6%	7,490.00	8,468.61	51,244.16	15,187.22	39,964.49	34,935.51	74,900.00	
W0347	Precast Concrete Pipe Laying ϕ 1520 (60")	m	10.00	27.1%	8.5%	64.4%	39.8%	60.2%	938.00	2,546.27	793.68	6,040.05	3,734.39	5,645.61	9,380.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										11,014.89	52,037.84	21,227.28	43,698.88	40,581.12	84,280.00	
Components (%)										13.1%	61.7%	25.2%	51.8%	48.2%	100.0%	
Unit Rate			m							1,101.75	5,205.02	2,123.23	4,370.92	4,059.08	8,430.00	

502(2)a1 Drop Inlet Manhole for RCPC 1- ϕ 460 x 1- ϕ 460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	lean concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.84	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	33.52	1,088.36	222.12	762.94	581.06	1,344.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.82	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	33.36	0.41	177.78	95.27	116.29	211.56	
W0237	Concrete Curing (reinforced concrete)	m3	0.82	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.63	0.27	0.63	0.49	3.03	3.52	
W0241	Formwork (reinforced concrete H<4m)	m2	7.83	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,060.80	702.67	13.94	51.51	1,725.90	1,777.41	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	31.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	594.72	604.99	21.69	229.58	991.82	1,221.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	43.79	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	157.94	786.86	79.89	551.80	472.89	1,024.69	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	6.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	28.40	301.80	20.80	220.62	130.38	351.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,953.68	3,635.84	552.65	2,017.76	4,124.41	6,142.17	
Components (%)										31.8%	59.2%	9.0%	32.9%	67.1%	100.0%	
Unit Rate			each							1,952.99	3,634.56	552.45	2,017.05	4,122.95	6,140.00	

502(2)a2		Drop Inlet Manhole for RCPC 1-φ610 x 1-φ460										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.02	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	40.70	1,321.58	269.72	926.42	705.58	1,632.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	40.69	0.51	216.81	116.19	141.81	258.00	
W0237	Concrete Curing (reinforced concrete)	m3	1.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.20	0.33	0.76	0.60	3.69	4.29	
W0241	Formwork (reinforced concrete H<4m)	m2	9.45	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,280.27	848.05	16.82	62.17	2,082.98	2,145.15	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	34.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	652.28	663.54	23.78	251.80	1,087.80	1,339.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	53.17	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	191.77	955.41	97.00	670.00	574.18	1,214.18	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	6.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	28.40	301.80	20.80	220.62	130.38	351.00	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,279.62	4,241.69	661.50	2,353.34	4,829.47	7,182.81	
Components (%)										31.7%	59.1%	9.2%	32.8%	67.2%	100.0%	
Unit Rate			each							2,278.73	4,240.03	651.24	2,352.42	4,827.58	7,180.00	

502(2)a3		Drop Inlet Manhole for RCPC 1-φ760 x 1-φ460										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.28	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.08	1,658.45	338.47	1,162.57	885.43	2,048.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	50.86	0.63	271.01	145.24	177.26	322.50	
W0237	Concrete Curing (reinforced concrete)	m3	1.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.00	0.41	0.95	0.75	4.61	5.36	
W0241	Formwork (reinforced concrete H<4m)	m2	12.14	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,644.71	1,089.45	21.61	79.87	2,675.91	2,755.78	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	36.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	690.65	702.57	25.18	266.61	1,151.79	1,418.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	60.51	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	218.25	1,087.29	110.39	762.49	653.44	1,415.93	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	7.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	33.13	352.10	24.27	257.39	152.11	409.50	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,734.98	5,041.39	807.69	2,780.45	5,803.61	8,584.06	
Components (%)										31.9%	58.7%	9.4%	32.4%	67.6%	100.0%	
Unit Rate			each							2,733.69	5,039.01	807.31	2,779.14	5,800.86	8,580.00	

502(2)a4 Drop Inlet Manhole for RCPC 1-φ910 x 1-φ460										Unit: 1.00 each							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	30.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.56	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	62.25	2,021.24	412.51	1,416.88	1,079.12	2,496.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.53	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	62.25	0.77	331.72	177.77	216.97	394.74		
W0237	Concrete Curing (reinforced concrete)	m3	1.53	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.90	0.50	1.17	0.92	5.64	6.56		
W0241	Formwork (reinforced concrete H<4m)	m2	15.17	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,055.21	1,361.37	27.01	99.80	3,343.79	3,443.59		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	39.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	748.20	761.12	27.28	288.82	1,247.78	1,536.60		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	71.71	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	258.64	1,288.55	130.82	903.62	774.39	1,678.01		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	37.86	402.40	27.73	294.16	173.84	468.00		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										3,271.62	5,986.43	974.04	3,287.52	6,944.57	10,232.09		
Components (%)										32.0%	58.8%	9.5%	32.1%	67.9%	100.0%		
Unit Rate			each							3,261.36	5,967.65	970.98	3,277.21	6,922.79	10,200.00		

502(2)a5 Drop Inlet Manhole for RCPC 1-φ1070 x 1-φ460										Unit: 1.00 each							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	30.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.79	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	71.43	2,319.24	473.33	1,625.78	1,238.22	2,864.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.75	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	71.20	0.89	379.41	203.33	248.17	451.50		
W0237	Concrete Curing (reinforced concrete)	m3	1.75	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.60	0.57	1.33	1.05	6.46	7.51		
W0241	Formwork (reinforced concrete H<4m)	m2	17.36	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,351.91	1,557.90	30.91	114.21	3,826.51	3,940.72		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	42.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	805.76	819.66	29.38	311.04	1,343.76	1,654.80		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	76.66	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	276.50	1,377.49	139.85	965.99	827.85	1,793.84		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	9.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	42.60	452.70	31.20	330.93	195.57	526.50		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										3,667.30	6,678.94	1,101.22	3,657.88	7,789.58	11,447.46		
Components (%)										32.0%	58.3%	9.6%	32.0%	68.0%	100.0%		
Unit Rate			each							3,652.10	6,651.25	1,096.65	3,642.72	7,757.28	11,400.00		

502(2)a6 Drop Inlet Manhole for RCPC 1-φ1220 x 1-φ460

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.11	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	84.20	2,733.86	557.94	1,916.43	1,459.57	3,376.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.07	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	84.22	1.05	448.79	240.51	293.55	534.06	
W0237	Concrete Curing (reinforced concrete)	m3	2.07	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.63	0.68	1.58	1.24	7.64	8.88	
W0241	Formwork (reinforced concrete H<4m)	m2	20.89	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,830.15	1,874.69	37.19	137.44	4,604.59	4,742.03	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	45.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	863.31	878.21	31.48	333.26	1,439.74	1,773.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	84.93	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	306.32	1,526.10	154.94	1,070.20	917.16	1,987.36	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	10.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	47.33	503.00	34.67	367.70	217.30	585.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,264.47	7,668.06	1,282.40	4,172.32	9,042.60	13,214.92	
Comments (%)										32.3%	58.0%	9.7%	31.6%	68.4%	100.0%	
Unit Rate										4,259.65	7,659.40	1,280.95	4,167.61	9,032.39	13,200.00	

502(2)a7 Drop Inlet Manhole for RCPC 1-φ1520 x 1-φ460

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.71	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	108.14	3,511.26	716.60	2,461.38	1,874.62	4,336.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.66	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	108.23	1.35	576.71	309.06	377.22	686.28	
W0237	Concrete Curing (reinforced concrete)	m3	2.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	8.51	0.87	2.03	1.59	9.82	11.41	
W0241	Formwork (reinforced concrete H<4m)	m2	27.39	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,710.76	2,458.00	48.76	180.20	6,037.33	6,217.53	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	50.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	959.23	975.79	34.98	370.29	1,599.71	1,970.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	105.33	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	379.90	1,892.66	192.15	1,327.26	1,137.46	2,464.72	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	11.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	52.06	553.30	38.13	404.47	239.03	643.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	2.65	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	31.39	44.29	5.41	31.40	49.69	81.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,369.15	9,543.71	1,625.17	5,159.80	11,378.23	16,538.03	
Comments (%)										32.3%	57.7%	9.8%	31.2%	68.8%	100.0%	
Unit Rate										5,356.80	9,521.76	1,621.43	5,147.94	11,352.06	16,500.00	

502(2)a12		Drop Inlet Manhole for RCPC 1-φ610 x 1-φ610										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.14	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	45.49	1,477.06	301.45	1,035.41	788.59	1,824.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	45.57	0.57	242.82	130.13	158.83	288.96	
W0237	Concrete Curing (reinforced concrete)	m3	1.12	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.85	3.58	0.67	3.58	4.13	4.80	
W0241	Formwork (reinforced concrete H(4m))	m2	10.28	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,392.72	922.54	18.30	67.63	2,265.93	2,333.56	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	37.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	709.83	722.08	25.88	274.01	1,183.79	1,457.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	59.70	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	215.33	1,072.74	108.91	752.28	644.70	1,396.98	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	6.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	28.40	301.80	20.80	220.62	130.38	351.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,490.45	4,657.83	736.07	2,593.54	5,290.82	7,884.36	
Components (%)										31.6%	59.1%	9.3%	32.9%	67.1%	100.0%	
Unit Rate			each							2,489.09	4,655.26	735.67	2,592.11	5,287.89	7,880.00	

502(2)a13		Drop Inlet Manhole for RCPC 1-φ760 x 1-φ610										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.43	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	57.06	1,852.80	378.13	1,298.81	989.19	2,288.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.40	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	56.96	0.71	303.53	162.66	198.54	361.20	
W0237	Concrete Curing (reinforced concrete)	m3	1.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.85	3.58	0.67	3.58	4.13	4.80	
W0241	Formwork (reinforced concrete H(4m))	m2	13.14	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,780.19	1,179.20	23.39	86.45	2,896.33	2,982.78	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	39.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	748.20	761.12	27.28	288.82	1,247.78	1,536.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	67.78	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	244.47	1,217.93	123.65	854.10	731.95	1,586.05	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	7.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	33.13	352.10	24.27	257.39	152.11	409.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,974.04	5,524.99	898.38	3,061.85	6,335.55	9,397.40	
Components (%)										31.6%	58.8%	9.6%	32.6%	67.4%	100.0%	
Unit Rate			each							2,974.86	5,526.52	898.62	3,062.70	6,337.30	9,400.00	

502(2)a14		Drop Inlet Manhole for RCPC 1-φ910 x 1-φ610										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.73	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	69.03	2,241.50	457.46	1,571.29	1,196.71	2,768.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.70	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	69.17	0.86	368.57	197.52	241.08	438.60	
W0237	Concrete Curing (reinforced concrete)	m3	1.70	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.44	0.55	1.29	1.02	6.27	7.29	
W0241	Formwork (reinforced concrete II(4m)	m2	16.34	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,213.72	1,466.37	29.09	107.50	3,601.68	3,709.18	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	42.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	805.76	819.66	29.38	311.04	1,343.76	1,654.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	78.75	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	284.03	1,415.05	143.66	992.33	850.42	1,842.75	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	37.86	402.40	27.73	294.16	173.84	468.00	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,534.55	6,507.08	1,074.25	3,587.64	7,528.24	11,115.88	
Components (%)										31.8%	58.5%	9.7%	32.3%	67.7%	100.0%	
Unit Rate			each							3,529.50	6,497.78	1,072.71	3,582.51	7,517.49	11,100.00	

502(2)a15		Drop Inlet Manhole for RCPC 1-φ1070 x 1-φ610										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.97	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	78.61	2,552.47	520.92	1,789.27	1,362.73	3,152.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.93	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	78.52	0.98	418.44	224.24	273.70	497.94	
W0237	Concrete Curing (reinforced concrete)	m3	1.93	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.18	0.63	1.47	1.16	7.12	8.28	
W0241	Formwork (reinforced concrete II(4m)	m2	18.64	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,525.32	1,672.77	33.19	122.63	4,108.65	4,231.28	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	45.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	863.31	878.21	31.48	333.25	1,439.74	1,773.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	85.46	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	308.24	1,535.62	155.91	1,076.88	922.88	1,999.76	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	9.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	42.60	452.70	31.20	330.93	195.57	526.50	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,952.32	7,254.05	1,209.65	3,991.15	8,424.87	12,416.02	
Components (%)										31.8%	58.4%	9.7%	32.1%	67.9%	100.0%	
Unit Rate			each							3,947.22	7,244.69	1,208.09	3,986.60	8,414.00	12,400.00	

502(2)a16 Drop Inlet Manhole for RCPC 1-φ1220 x 1-φ610

Unit: 1.00 each

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	
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.32	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	92.58	3,005.95	613.47	2,107.16	1,604.84	3,712.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.27	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	92.36	1.15	492.15	263.75	321.91	585.66	
W0237	Concrete Curing (reinforced concrete)	m3	2.27	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.27	0.74	1.73	1.36	8.38	9.74	
W0241	Formwork (reinforced concrete H<4m)	m2	22.34	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,026.59	2,004.81	39.77	146.97	4,924.21	5,071.18	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	47.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	901.68	917.24	32.88	348.07	1,503.73	1,851.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	94.49	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	340.81	1,697.88	172.38	1,190.67	1,020.40	2,211.07	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	10.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	47.33	503.00	34.67	367.70	217.30	585.00	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,558.15	8,291.45	1,404.11	4,538.46	9,716.25	14,253.71	
Components (%)										32.0%	58.2%	9.9%	31.8%	68.2%	100.0%	
Unit Rate			each							4,572.95	8,318.38	1,408.67	4,553.20	9,746.80	14,300.00	

502(2)a17 Drop Inlet Manhole for RCPC 1-φ1520 x 1-φ610

Unit: 1.00 each

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	
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.96	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	118.12	3,835.18	782.71	2,688.45	2,047.55	4,736.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.90	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	117.99	1.47	628.74	336.95	411.25	748.20	
W0237	Concrete Curing (reinforced concrete)	m3	2.90	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.28	0.95	2.21	1.74	10.70	12.44	
W0241	Formwork (reinforced concrete H<4m)	m2	29.12	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,945.14	2,613.25	51.85	191.58	6,418.66	6,610.24	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	53.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,016.79	1,034.34	37.07	392.51	1,695.69	2,088.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	116.56	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	420.41	2,094.45	212.64	1,468.77	1,258.73	2,727.50	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	11.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	52.06	553.30	38.13	404.47	239.03	643.50	
W0716	Steel Gate for Manhole Inlet, furnish & installation	kg	3.26	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	38.62	54.49	6.65	38.63	61.13	99.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,729.32	10,293.61	1,770.41	5,597.24	12,196.10	17,793.34	
Components (%)										32.2%	57.9%	9.9%	31.5%	68.5%	100.0%	
Unit Rate			each							5,731.47	10,297.46	1,771.07	5,599.33	12,200.67	17,800.00	

502(2)a22 Drop Inlet Manhole for RCPC 2-φ610 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.86	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	74.22	2,409.94	491.84	1,689.36	1,286.64	2,976.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.82	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	74.05	0.92	394.59	211.46	258.10	469.56	
W0237	Concrete Curing (reinforced concrete)	m3	1.82	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.83	0.59	1.39	1.09	6.72	7.81	
W0241	Formwork (reinforced concrete H<4m)	m2	14.89	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,017.28	1,336.24	26.51	97.96	3,282.07	3,380.03	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	52.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	997.60	1,014.82	36.38	385.10	1,663.70	2,048.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	94.26	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	339.98	1,693.75	171.96	1,187.77	1,017.91	2,205.68	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	6.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	28.40	301.80	20.80	220.62	130.38	351.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	6.37	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	75.46	106.47	12.99	75.49	119.43	194.92	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,623.73	6,970.72	1,166.85	3,943.00	7,818.30	11,761.30	
Components (%)										30.8%	59.3%	9.9%	33.5%	66.5%	100.0%	
Unit Rate			each							3,635.65	6,993.66	1,170.69	3,955.97	7,844.03	11,800.00	

502(2)a23 Drop Inlet Manhole for RCPC 2-φ760 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.40	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	95.77	3,109.60	634.63	2,179.82	1,660.18	3,840.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.35	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	95.61	1.19	509.50	273.04	333.26	606.30	
W0237	Concrete Curing (reinforced concrete)	m3	2.35	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.52	0.77	1.79	1.41	8.67	10.08	
W0241	Formwork (reinforced concrete H<4m)	m2	19.98	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,704.16	1,791.23	35.54	131.32	4,399.60	4,530.92	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	58.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,112.71	1,131.92	40.57	429.53	1,855.67	2,285.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	112.21	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	404.72	2,016.29	204.71	1,413.96	1,211.75	2,625.71	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	7.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	33.13	352.10	24.27	257.39	152.11	409.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	7.87	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	93.22	131.54	16.05	93.26	147.56	240.82	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,557.76	8,640.82	1,477.45	4,853.88	9,822.15	14,676.03	
Components (%)										31.1%	58.9%	10.1%	33.1%	66.9%	100.0%	
Unit Rate			each							4,565.20	8,654.93	1,479.87	4,861.80	9,838.20	14,700.00	

502(2)a24 Drop Inlet Manhole for RCPC 2-φ910 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.99	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	119.31	3,874.05	790.64	2,715.69	2,068.31	4,784.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.93	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	119.21	1.48	635.25	340.43	415.51	755.94	
W0237	Concrete Curing (reinforced concrete)	m3	2.93	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.38	0.96	2.23	1.75	10.82	12.57	
W0241	Formwork (reinforced concrete H<4m)	m2	25.72	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,484.51	2,308.14	45.79	169.21	5,669.23	5,838.44	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	65.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,247.00	1,268.53	45.47	481.37	2,079.63	2,561.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	135.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	486.92	2,425.80	246.28	1,701.14	1,457.86	3,159.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	37.86	402.40	27.73	294.16	173.84	468.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	9.14	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	108.27	152.77	18.65	108.31	171.37	279.68	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,623.39	10,540.30	1,822.44	5,886.22	12,099.91	17,986.13	
Components (%)										31.3%	58.6%	10.1%	32.7%	67.3%	100.0%	
Unit Rate			each							5,627.72	10,548.43	1,823.85	5,890.76	12,109.24	18,000.00	

502(2)a25 Drop Inlet Manhole for RCPC 2-φ1070 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.51	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	140.05	4,547.79	928.14	3,187.99	2,428.01	5,616.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.44	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	139.96	1.74	745.82	399.69	487.83	887.52	
W0237	Concrete Curing (reinforced concrete)	m3	3.44	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	11.01	1.12	2.62	2.06	12.70	14.76	
W0241	Formwork (reinforced concrete H<4m)	m2	30.40	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,118.55	2,728.12	54.12	200.00	6,700.80	6,900.80	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	71.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,362.11	1,385.62	49.67	525.81	2,271.59	2,797.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	152.15	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	548.77	2,733.97	277.57	1,917.25	1,643.06	3,560.31	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	9.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	42.60	452.70	31.20	330.93	195.57	526.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	10.42	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	123.43	174.16	21.26	123.48	195.37	318.85	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,497.42	12,131.42	2,120.80	6,761.35	13,988.29	20,749.64	
Components (%)										31.3%	58.6%	10.2%	32.6%	67.4%	100.0%	
Unit Rate			each							6,481.88	12,102.40	2,115.73	6,745.17	13,954.83	20,700.00	

502(2)a26 Drop Inlet Manhole for RCPC 2-φ1220 x 1-φ610

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.18	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	166.80	5,415.89	1,105.31	3,796.52	2,891.48	6,688.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.10	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	166.81	2.07	888.91	476.37	581.43	1,057.80	
W0237	Concrete Curing (reinforced concrete)	m3	4.10	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.13	1.34	3.12	2.45	15.14	17.59	
W0241	Formwork (reinforced concrete H(4m)	m2	37.30	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	5,053.36	3,347.33	66.41	245.40	8,221.70	8,467.10	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	78.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,496.40	1,522.23	54.56	577.65	2,495.55	3,073.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	171.81	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	619.68	3,087.23	313.43	2,164.98	1,855.37	4,020.35	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	10.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	47.33	503.00	34.67	367.70	217.30	585.00	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	11.91	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	141.08	199.07	24.30	141.14	223.31	364.45	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										7,715.51	14,184.36	2,501.12	7,846.36	16,554.63	24,400.99	
Components (%)										31.6%	58.1%	10.3%	32.2%	67.8%	100.0%	
Unit Rate										7,715.20	14,183.79	2,501.01	7,846.04	16,553.96	24,400.00	

502(2)a27 Drop Inlet Manhole for RCPC 2-φ1520 x 1-φ610

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.52	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	220.27	7,152.08	1,459.65	5,013.59	3,818.41	8,832.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.41	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	220.11	2.74	1,172.93	628.58	767.20	1,395.78	
W0237	Concrete Curing (reinforced concrete)	m3	5.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	17.32	1.77	4.12	3.24	19.97	23.21	
W0241	Formwork (reinforced concrete H(4m)	m2	50.80	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	6,882.32	4,558.84	90.44	334.21	11,197.39	11,531.60	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	90.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,726.62	1,756.42	62.96	666.52	2,879.48	3,546.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	217.77	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	785.45	3,913.09	397.28	2,744.13	2,351.69	5,095.82	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	11.00	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	52.06	553.30	38.13	404.47	239.03	643.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	14.44	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	171.05	241.35	29.46	171.12	270.74	441.86	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										10,086.12	18,285.78	3,265.37	10,040.00	21,697.27	31,637.27	
Components (%)										31.9%	57.8%	10.3%	31.7%	68.3%	100.0%	
Unit Rate										10,074.24	18,264.23	3,261.52	10,028.17	21,571.83	31,600.00	

502(2)b1		Special Junction Box Manhole for RCPC 1-φ460 x 1-φ460										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.44	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	17.56	570.09	116.35	399.63	304.37	704.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.43	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	17.50	0.22	93.23	49.96	60.98	110.94	
W0237	Concrete Curing (reinforced concrete)	m3	0.43	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.37	0.14	0.33	0.26	1.58	1.84	
W0241	Formwork (reinforced concrete H<4m)	m2	2.93	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	396.95	262.94	5.22	19.28	645.83	665.11	
W0751	Concrete hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	94.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,803.36	1,834.49	65.76	696.14	3,007.46	3,703.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	77.75	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	280.43	1,397.08	141.84	979.73	839.62	1,819.35	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,577.26	4,654.95	462.63	2,566.47	5,128.37	7,694.84	
Components (%)										33.5%	60.5%	6.0%	33.4%	66.6%	100.0%	
Unit Rate										2,575.64	4,652.02	462.34	2,564.85	5,125.15	7,690.00	

502(2)b2		Special Junction Box Manhole for RCPC 1-φ610 x 1-φ610										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.58	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	23.14	751.49	153.37	526.79	401.21	928.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	23.19	0.29	123.58	66.23	80.83	147.06	
W0237	Concrete Curing (reinforced concrete)	m3	0.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.83	0.19	0.41	0.34	2.11	2.45	
W0241	Formwork (reinforced concrete H<4m)	m2	4.12	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	558.17	369.73	7.34	27.11	908.13	935.24	
W0751	Concrete hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	102.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,956.84	1,990.61	71.35	755.39	3,263.41	4,018.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	90.31	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	325.73	1,622.77	164.75	1,138.00	975.25	2,113.25	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,948.99	5,325.07	560.74	2,935.32	5,899.48	8,834.80	
Components (%)										33.4%	60.3%	6.3%	33.2%	66.8%	100.0%	
Unit Rate										2,947.39	5,322.17	560.44	2,933.72	5,896.28	8,830.00	

502(2)b3 Special Junction Box Manhole for RCPC 1-φ760 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.81	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	32.32	1,049.49	214.19	735.69	560.31	1,296.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.79	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	32.14	0.40	171.28	91.79	112.03	203.82	
W0237	Concrete Curing (reinforced concrete)	m3	0.79	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.53	0.26	0.60	0.47	2.92	3.39	
W0241	Formwork (reinforced concrete H(4m))	m2	6.40	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	867.06	574.34	11.39	42.11	1,410.69	1,452.80	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	109.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,091.13	2,127.22	76.25	807.23	3,487.37	4,294.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	98.93	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	356.82	1,777.66	180.48	1,246.62	1,068.34	2,314.96	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	10.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	47.39	465.31	32.30	340.25	204.75	545.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,446.84	6,165.90	697.33	3,379.40	6,930.67	10,310.07	
Components (%)										33.4%	59.8%	6.8%	32.8%	67.2%	100.0%	
Unit Rate			each							3,443.47	6,159.88	696.65	3,376.09	6,923.91	10,300.00	

502(2)b4 Special Junction Box Manhole for RCPC 1-φ910 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.06	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	42.30	1,373.41	280.29	962.75	733.25	1,696.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.04	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	42.31	0.53	225.48	120.84	147.48	268.32	
W0237	Concrete Curing (reinforced concrete)	m3	1.04	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.33	0.34	0.79	0.62	3.84	4.46	
W0241	Formwork (reinforced concrete H(4m))	m2	8.99	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,217.95	806.77	16.01	59.15	1,981.58	2,040.73	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	117.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,244.61	2,283.35	81.84	866.47	3,743.33	4,609.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	111.37	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	401.69	2,001.20	203.17	1,403.38	1,202.68	2,606.06	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	11.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	52.13	511.84	35.53	374.28	225.22	599.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,021.76	7,148.65	853.97	3,902.73	8,121.64	12,024.37	
Components (%)										33.4%	59.5%	7.1%	32.5%	67.5%	100.0%	
Unit Rate			each							4,013.61	7,134.16	852.23	3,894.82	8,105.18	12,000.00	

502(2)b5 Special Junction Box Manhole for RCPC 1-φ1070 x 1-φ460

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.24	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	49.48	1,606.63	327.89	1,126.24	857.76	1,984.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.22	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	49.64	0.62	264.51	141.75	173.01	314.76	
W0237	Concrete Curing (reinforced concrete)	m3	1.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.90	0.40	0.93	0.73	4.50	5.23	
W0241	Formwork (reinforced concrete H<4m)	m2	10.75	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,456.40	964.71	97.1%	70.72	2,369.53	2,440.25	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	126.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,417.27	2,458.99	88.14	933.13	4,031.27	4,964.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	118.57	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	427.66	2,130.57	216.31	1,494.10	1,280.44	2,774.54	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	12.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	56.87	558.37	38.76	408.30	245.70	654.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,478.65	7,891.51	966.52	4,290.22	9,046.46	13,336.68	
Components (%)										33.6%	59.2%	7.2%	32.2%	67.8%	100.0%	
Unit Rate		each								4,466.33	7,869.80	963.86	4,278.42	9,021.58	13,300.00	

502(2)b6 Special Junction Box Manhole for RCPC 1-φ1220 x 1-φ460

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.54	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	61.45	1,995.33	407.22	1,398.72	1,065.28	2,464.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.51	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	61.44	0.76	327.38	175.44	214.14	389.58	
W0237	Concrete Curing (reinforced concrete)	m3	1.51	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.84	0.49	1.15	0.90	5.58	6.48	
W0241	Formwork (reinforced concrete H<4m)	m2	13.85	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,876.38	1,242.91	24.66	91.12	3,052.83	3,143.95	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	134.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,570.75	2,615.12	93.74	992.37	4,287.23	5,279.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	127.59	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	460.19	2,292.65	232.76	1,607.77	1,377.84	2,985.61	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	13.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	61.61	604.91	41.99	442.33	266.17	708.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,114.09	8,923.39	1,139.74	4,823.89	10,353.33	15,177.22	
Components (%)										33.7%	58.8%	7.5%	31.8%	68.2%	100.0%	
Unit Rate		each								5,121.77	8,936.78	1,141.45	4,831.13	10,368.87	15,200.00	

502(2)b7 Special Junction Box Manhole for RCPC 1-φ1520 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.36	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	94.17	3,057.78	624.05	2,143.49	1,632.51	3,776.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.31	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	93.99	1.17	500.83	268.40	327.58	595.98	
W0237	Concrete Curing (reinforced concrete)	m3	2.31	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.40	0.75	1.76	1.38	8.53	9.91	
W0241	Formwork (reinforced concrete H<4m)	m2	19.81	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,683.83	1,777.77	35.27	130.33	4,366.54	4,496.87	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laving including mortar fill	each	149.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,858.52	2,907.85	104.23	1,103.46	4,767.14	5,870.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	522.02	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,882.82	9,380.13	952.33	6,577.99	5,637.28	12,215.27	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	14.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	66.35	651.44	45.21	476.35	286.65	763.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										7,704.51	17,918.09	2,274.53	10,816.64	17,110.49	27,927.13	
Components (%)										27.6%	64.3%	8.1%	38.7%	61.3%	100.0%	
Unit Rate			each							7,697.02	17,930.66	2,272.32	10,806.13	17,093.87	27,900.00	

502(2)h12 Special Junction Box Manhole for RCPC 1-φ610 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.67	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	26.74	868.10	177.17	608.53	463.47	1,072.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.66	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	26.85	0.33	143.09	76.68	93.60	170.28	
W0237	Concrete Curing (reinforced concrete)	m3	0.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.11	0.22	0.50	0.39	2.44	2.83	
W0241	Formwork (reinforced concrete H<4m)	m2	4.51	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	611.01	404.73	8.03	29.67	994.10	1,023.77	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laving including mortar fill	each	110.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,110.31	2,146.74	76.95	814.63	3,519.37	4,334.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	100.94	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	364.07	1,813.78	184.15	1,271.95	1,090.06	2,362.00	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,201.18	5,823.89	629.80	3,223.33	6,431.55	9,654.88	
Components (%)										33.2%	60.3%	6.5%	33.4%	66.6%	100.0%	
Unit Rate			each							3,199.57	5,820.95	629.48	3,221.71	6,428.29	9,650.00	

502(2)b13 Special Junction Box Manhole for RCPC 1-φ760 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.3%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.92	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	36.71	1,192.01	243.27	835.60	636.40	1,472.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.90	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	36.62	0.46	195.13	104.57	127.63	232.20	
W0237	Concrete Curing (reinforced concrete)	m3	0.90	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.88	0.29	0.69	0.54	3.32	3.86	
W0241	Formwork (reinforced concrete H<4m)	m2	6.97	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	944.29	625.49	12.41	45.86	1,536.33	1,582.19	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	117.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,244.61	2,283.35	81.84	866.47	3,743.33	4,609.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	110.23	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	397.58	1,980.71	201.09	1,389.01	1,190.37	2,579.38	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	10.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	47.39	465.31	32.30	340.25	204.75	545.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,727.51	6,718.84	777.58	3,697.54	7,526.39	11,223.93	
Components (%)										33.2%	59.9%	6.9%	32.9%	67.1%	100.0%	
Unit Rate		each								3,719.56	6,704.52	775.92	3,689.65	7,510.35	11,200.00	

502(2)b14 Special Junction Box Manhole for RCPC 1-φ910 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.19	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	47.49	1,541.84	314.67	1,080.83	823.17	1,904.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.17	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	47.60	0.59	253.67	135.94	165.92	301.86	
W0237	Concrete Curing (reinforced concrete)	m3	1.17	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.75	0.38	0.89	0.70	4.32	5.02	
W0241	Formwork (reinforced concrete H<4m)	m2	9.73	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,318.21	873.18	17.32	64.01	2,144.70	2,208.71	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	126.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,417.27	2,458.99	88.14	933.13	4,631.27	4,964.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	121.78	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	439.23	2,188.25	222.16	1,534.55	1,315.10	2,849.65	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	11.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	52.13	511.84	35.53	374.28	225.22	599.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,343.12	7,746.29	943.23	4,238.68	8,793.96	13,032.64	
Components (%)										33.3%	59.4%	7.2%	32.5%	67.5%	100.0%	
Unit Rate		each								4,332.24	7,725.89	940.87	4,228.06	8,771.94	13,000.00	

502(2)b15 Special Junction Box Manhole for RCPC 1-φ1070 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.41	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	56.26	1,826.89	372.84	1,280.64	975.36	2,256.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.38	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	56.15	0.70	299.19	160.34	195.70	356.04	
W0237	Concrete Curing (reinforced concrete)	m3	1.38	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.42	0.45	1.05	4.83	5.09	5.92	
W0241	Formwork (reinforced concrete H<4m)	m2	11.60	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,571.55	1,040.99	20.65	76.32	2,556.88	2,633.20	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	134.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,570.75	2,615.12	93.74	992.37	4,287.23	5,279.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	131.50	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	474.29	2,362.91	239.90	1,657.03	1,420.07	3,077.10	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	12.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	56.87	558.37	38.76	408.30	245.70	654.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,807.73	8,576.65	1,076.98	4,691.08	9,770.28	14,461.36	
Components (%)										33.2%	59.3%	7.4%	32.4%	67.6%	100.0%	
Unit Rate			each							4,820.58	8,599.56	1,079.86	4,703.61	9,796.39	14,500.00	

502(2)b16 Special Junction Box Manhole for RCPC 1-φ1220 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.71	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	69.24	2,215.59	452.17	1,553.12	1,182.88	2,736.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.68	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	68.35	0.85	364.24	195.20	238.24	433.44	
W0237	Concrete Curing (reinforced concrete)	m3	1.68	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.38	0.55	1.28	1.01	6.20	7.21	
W0241	Formwork (reinforced concrete H<4m)	m2	14.87	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,014.57	1,334.45	26.47	97.83	3,277.66	3,375.49	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	142.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,724.22	2,771.24	99.33	1,051.62	4,543.18	5,594.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	141.23	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	509.39	2,537.75	257.65	1,779.64	1,525.14	3,304.78	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	13.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	61.61	604.91	41.99	442.33	266.17	708.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,469.20	9,636.54	1,253.98	5,235.98	11,123.74	16,359.72	
Components (%)										33.4%	58.9%	7.7%	32.0%	68.0%	100.0%	
Unit Rate			each							5,482.66	9,660.27	1,257.07	5,248.87	11,151.13	16,400.00	

502(2)b17 Special Junction Box Manhole for RCPC 1-φ1520 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.59	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	103.35	3,355.78	684.87	2,352.39	1,791.61	4,144.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.54	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	103.34	1.28	550.69	295.12	360.20	655.32	
W0237	Concrete Curing (reinforced concrete)	m3	2.54	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	8.13	0.83	1.94	1.52	9.38	10.90	
W0241	Formwork (reinforced concrete H<4m)	m2	21.11	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,859.96	1,894.43	37.58	138.88	4,653.09	4,791.97	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	158.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,031.18	3,083.50	110.53	1,170.11	5,055.09	6,225.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	565.09	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	2,038.16	10,154.05	1,030.90	7,120.71	6,102.40	13,223.11	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	14.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	66.35	651.44	45.21	476.35	286.65	763.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,227.91	19,312.52	2,472.57	11,670.33	18,342.67	30,013.00	
Components (%)										27.4%	64.3%	8.2%	38.9%	61.1%	100.0%	
Unit Rate			each							8,224.35	19,304.15	2,471.50	11,665.27	18,334.73	30,000.00	

502(2)b21 Special Junction Box Manhole for RCPC 2-φ460 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.70	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	27.93	906.97	185.10	635.78	484.22	1,120.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.69	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.07	0.35	149.60	80.17	97.85	178.02	
W0237	Concrete Curing (reinforced concrete)	m3	0.69	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.21	0.23	0.53	0.41	2.55	2.96	
W0241	Formwork (reinforced concrete H<4m)	m2	3.95	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	535.14	354.48	7.03	25.99	870.66	896.65	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	122.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,340.53	2,380.93	85.34	903.50	3,903.30	4,806.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	109.66	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	395.52	1,970.47	200.05	1,381.83	1,184.21	2,566.04	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,389.50	6,203.41	667.57	3,449.15	6,811.32	10,260.47	
Components (%)										33.0%	60.5%	6.5%	33.6%	66.4%	100.0%	
Unit Rate			each							3,402.56	6,227.30	670.14	3,462.44	6,837.56	10,300.00	

502(2)b22 Special Junction Box Manhole for RCPC 2-φ610 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.97	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	38.71	1,256.80	256.50	881.01	670.99	1,552.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.95	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	38.65	0.48	205.97	110.38	134.72	245.10	
W0237	Concrete Curing (reinforced concrete)	m3	0.95	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.04	0.31	0.72	0.57	3.51	4.08	
W0241	Formwork (reinforced concrete H(4m))	m2	5.83	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	789.84	523.19	10.38	38.36	1,285.05	1,323.41	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	140.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,685.85	2,732.21	97.93	1,036.81	4,479.19	5,516.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	131.77	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	475.27	2,367.76	240.39	1,660.44	1,422.98	3,083.42	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	1S	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,091.46	7,470.75	851.81	4,149.03	8,264.98	12,414.01	
Components (%)										33.0%	60.2%	6.9%	33.4%	66.6%	100.0%	
Unit Rate			each							4,086.84	7,462.32	850.85	4,144.34	8,255.66	12,400.00	

502(2)b23 Special Junction Box Manhole for RCPC 2-φ760 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.37	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	54.67	1,775.06	362.27	1,244.31	947.69	2,192.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.34	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	54.52	0.68	290.52	155.69	190.03	345.72	
W0237	Concrete Curing (reinforced concrete)	m3	1.34	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.29	0.44	1.02	0.80	4.95	5.75	
W0241	Formwork (reinforced concrete H(4m))	m2	9.44	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,278.92	847.15	16.81	62.11	2,080.77	2,142.88	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	158.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,031.18	3,083.50	110.53	1,170.11	5,055.09	6,225.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	151.07	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	544.88	2,714.56	275.60	1,903.64	1,631.40	3,535.04	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	10.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	47.39	465.31	32.30	340.25	204.75	545.00	
	Miscellaneous	1S	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,033.29	9,057.92	1,099.89	4,992.16	10,198.93	15,191.09	
Components (%)										33.1%	59.6%	7.2%	32.9%	67.1%	100.0%	
Unit Rate			each							5,036.24	9,063.23	1,100.53	4,995.08	10,204.92	15,200.00	

502(2)b24 Special Junction Box Manhole for RCPC 2-φ910 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.82	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	72.63	2,358.11	481.26	1,653.03	1,258.97	2,912.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.78	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	72.42	0.90	385.92	206.82	252.42	459.24	
W0237	Concrete Curing (reinforced concrete)	m3	1.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.70	0.58	1.36	1.07	6.57	7.64	
W0241	Formwork (reinforced concrete H<4m)	m2	13.69	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,854.70	1,228.55	24.37	90.07	3,017.56	3,107.63	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	176.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,376.50	3,434.78	123.12	1,303.41	5,630.99	6,934.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	175.62	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	633.43	3,155.70	320.39	2,212.99	1,896.52	4,109.51	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	11.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	52.13	511.84	35.53	374.28	225.22	599.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,084.95	10,861.69	1,382.79	5,956.90	12,372.52	18,329.42	
Components (%)										33.2%	59.3%	7.5%	32.5%	67.5%	100.0%	
Unit Rate		each								6,075.18	10,844.25	1,380.57	5,947.34	12,352.66	18,300.00	

502(2)b25 Special Junction Box Manhole for RCPC 2-φ1070 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.20	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	87.79	2,850.47	581.74	1,998.17	1,521.83	3,520.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.16	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	87.88	1.09	468.30	250.97	306.31	557.28	
W0237	Concrete Curing (reinforced concrete)	m3	2.16	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.92	0.71	1.65	1.29	7.98	9.27	
W0241	Formwork (reinforced concrete H<4m)	m2	16.98	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,300.43	1,523.80	30.23	111.71	3,742.75	3,854.46	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	196.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,760.20	3,825.10	137.11	1,451.53	6,270.87	7,722.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	12.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	43.28	215.63	21.89	151.21	129.59	280.80	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	12.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	56.87	558.37	38.76	408.30	245.70	654.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,360.80	9,146.38	1,290.53	4,488.43	12,309.28	16,797.71	
Components (%)										37.9%	54.5%	7.7%	26.7%	73.3%	100.0%	
Unit Rate		each								6,361.67	9,147.62	1,290.70	4,489.04	12,310.96	16,800.00	

502(2)b26 Special Junction Box Manhole for RCPC 2-φ1220 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.73	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	108.94	3,537.17	721.89	2,479.55	1,888.45	4,368.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.68	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	109.04	1.36	581.04	311.39	380.05	691.44	
W0237	Concrete Curing (reinforced concrete)	m3	2.68	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	8.58	0.88	2.04	1.60	9.90	11.50	
W0241	Formwork (reinforced concrete H<4m)	m2	22.37	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,030.66	2,007.50	39.83	147.17	4,930.82	5,077.99	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	214.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	4,105.52	4,176.38	149.70	1,584.83	6,846.77	8,431.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	214.83	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	774.85	3,860.26	391.92	2,707.08	2,319.94	5,027.02	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	13.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	61.61	604.91	41.99	442.33	266.17	708.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,216.63	14,359.66	1,939.25	7,789.19	16,726.36	24,515.55	
Components (%)										33.5%	58.6%	7.9%	31.8%	68.2%	100.0%	
Unit Rate			each							8,211.42	14,350.56	1,938.02	7,784.25	16,715.75	24,500.00	

502(2)b27 Special Junction Box Manhole for RCPC 2-φ1520 x 1-φ460

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.23	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	168.79	5,480.67	1,118.53	3,841.93	2,926.07	6,768.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.15	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	168.85	2.10	899.75	482.18	588.52	1,070.70	
W0237	Concrete Curing (reinforced concrete)	m3	4.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.28	1.35	3.16	2.48	15.32	17.80	
W0241	Formwork (reinforced concrete H<4m)	m2	33.17	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,493.83	2,976.70	59.06	218.23	7,311.36	7,529.59	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	250.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	4,796.17	4,878.95	174.88	1,851.44	7,998.56	9,850.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	855.48	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	3,085.54	15,372.03	1,560.66	10,779.92	9,238.31	20,018.23	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	14.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	66.35	651.44	45.21	476.35	286.65	763.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										12,810.25	29,534.46	3,872.11	17,767.78	28,419.04	46,216.82	
Components (%)										27.7%	63.9%	8.4%	38.4%	61.6%	100.0%	
Unit Rate			each							12,805.59	29,523.71	3,870.70	17,761.51	28,438.69	46,200.00	

502(2)b32		Special Junction Box Manhole for RCPC 2-φ610 x 1-φ610										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.12	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	44.69	1,451.15	296.16	1,017.25	774.75	1,792.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.10	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	44.76	0.56	238.49	127.81	155.99	283.80	
W0237	Concrete Curing (reinforced concrete)	m3	1.10	74.6%	7.6%	17.8%	14.0%	86.0%	4.23	3.52	0.36	0.84	0.66	4.72		
W0241	Formwork (reinforced concrete H<4m)	m2	6.38	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	864.35	572.55	11.36	41.97	1,406.29	1,448.26	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	149.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,858.52	2,907.85	104.23	1,103.46	4,767.14	5,870.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	143.99	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	519.34	2,587.34	262.68	1,814.42	1,554.95	3,369.37	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	9.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	42.65	418.78	29.07	306.23	184.27	490.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
Total										4,395.27	8,109.80	953.67	4,527.04	8,931.71	13,458.75	
Components (%)										32.7%	60.3%	7.1%	33.6%	66.4%	100.0%	
Unit Rate										4,408.74	8,134.66	956.60	4,540.91	8,959.09	13,500.00	

502(2)b33		Special Junction Box Manhole for RCPC 2-φ760 x 1-φ610										Unit: 1.00 each				
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)		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.56	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	62.25	2,021.24	412.51	1,416.88	1,079.12	2,496.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.53	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	62.25	0.77	331.72	177.77	216.97	394.74	
W0237	Concrete Curing (reinforced concrete)	m3	1.53	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.90	0.50	1.17	0.92	5.64	6.56	
W0241	Formwork (reinforced concrete H<4m)	m2	10.20	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,381.88	915.36	18.16	67.11	2,248.29	2,315.40	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	167.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,203.84	3,259.14	116.82	1,236.76	5,343.04	6,579.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	164.95	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	594.94	2,963.97	300.92	2,078.54	1,781.29	3,859.83	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	10.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	47.39	465.31	32.30	340.25	204.75	545.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
Total										5,374.89	9,797.50	1,224.44	5,433.47	10,963.36	16,396.83	
Components (%)										32.8%	59.8%	7.5%	33.1%	66.9%	100.0%	
Unit Rate										5,375.93	9,799.40	1,224.67	5,434.52	10,965.48	16,400.00	

502(2)b34 Special Junction Box Manhole for RCPC 2-φ910 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.04	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	81.40	2,643.16	539.43	1,852.85	1,411.15	3,264.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	81.37	1.01	433.62	232.38	283.62	516.00	
W0237	Concrete Curing (reinforced concrete)	m3	2.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.40	0.65	1.52	1.20	7.38	8.58	
W0241	Formwork (reinforced concrete H<4m)	m2	14.67	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,987.47	1,316.50	26.12	96.51	3,233.58	3,330.09	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	185.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,549.16	3,610.42	129.41	1,370.07	5,918.93	7,289.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	191.38	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	690.27	3,438.89	349.14	2,411.58	2,066.71	4,478.29	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	11.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	52.13	511.84	35.53	374.28	225.22	599.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,465.65	11,693.69	1,525.62	6,454.10	13,230.86	19,684.96	
Components (%)										32.8%	59.4%	7.8%	32.8%	67.2%	100.0%	
Unit Rate			each							6,470.59	11,702.62	1,526.78	6,459.03	13,240.97	19,700.00	

502(2)b35 Special Junction Box Manhole for RCPC 2-φ1070 x 1-φ610

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.46	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	98.16	3,187.34	650.49	2,234.32	1,701.68	3,936.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.41	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	98.05	1.22	522.51	280.01	341.77	621.78	
W0237	Concrete Curing (reinforced concrete)	m3	2.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.72	0.79	1.84	1.44	8.90	10.34	
W0241	Formwork (reinforced concrete H<4m)	m2	18.10	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,452.16	1,624.31	32.23	119.08	3,989.62	4,108.70	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	204.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	3,913.67	3,981.22	142.70	1,510.78	6,526.82	8,037.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	215.31	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	776.58	3,868.88	392.79	2,713.12	2,325.13	5,038.25	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	12.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	56.87	558.37	38.76	408.30	245.70	654.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										7,420.66	13,393.35	1,792.16	7,382.30	15,223.87	22,606.17	
Components (%)										32.8%	59.2%	7.9%	32.7%	67.3%	100.0%	
Unit Rate			each							7,418.63	13,389.69	1,791.67	7,380.28	15,219.72	22,600.00	

502(2)b36 Special Junction Box Manhole for RCPC 2-φ1220 x 1-φ610

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.03	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	120.91	3,925.87	801.22	2,752.02	2,095.98	4,848.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	120.84	1.50	643.92	345.08	421.18	766.26	
W0237	Concrete Curing (reinforced concrete)	m3	2.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.51	0.97	2.26	1.78	10.96	12.74	
W0241	Formwork (reinforced concrete H<4m)	m2	23.72	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,213.56	2,128.65	42.23	156.05	5,228.39	5,384.44	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	222.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	4,259.00	4,332.51	155.29	1,644.08	7,102.72	8,746.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	235.64	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	849.91	4,234.19	429.88	2,969.31	2,544.67	5,513.98	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	13.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	61.61	604.91	41.99	442.33	266.17	708.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,652.76	15,399.82	2,127.64	8,425.89	17,754.33	26,180.22	
Components (%)										33.1%	58.8%	8.1%	32.2%	67.8%	100.0%	
Unit Rate		each								8,659.30	15,411.45	2,129.25	8,432.26	17,767.74	26,200.00	

502(2)b37 Special Junction Box Manhole for RCPC 2-φ1520 x 1-φ610

Unit: 1.00 each

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)
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.60	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	183.56	5,960.07	1,216.37	4,177.99	3,182.01	7,360.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.51	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	183.50	2.28	977.80	524.01	639.57	1,163.58	
W0237	Concrete Curing (reinforced concrete)	m3	4.51	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	14.44	1.47	3.44	2.70	15.65	19.35	
W0241	Formwork (reinforced concrete H<4m)	m2	34.87	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,724.14	3,129.26	62.08	229.41	7,686.08	7,915.49	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	258.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	4,949.65	5,035.08	190.48	1,910.69	8,254.51	10,165.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	894.59	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	3,226.60	16,074.80	1,632.01	11,272.75	9,650.66	20,933.41	
W0703	Precast Concrete Cover (680x580x75), furnish	each	1.00	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	8.06	171.21	9.72	114.68	74.32	189.00	
W0704	Precast Concrete Cover (680x580x75), installation	each	1.00	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	9.38	0.00	1.13	0.56	9.94	10.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	14.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	66.35	651.44	45.21	476.35	286.65	763.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										13,365.67	31,025.61	4,128.24	18,709.14	29,810.39	48,519.53	
Components (%)										27.5%	63.9%	8.5%	38.6%	61.4%	100.0%	
Unit Rate		each								13,360.29	31,013.13	4,126.58	18,701.61	29,798.39	48,500.00	

502(2)c1 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ460 x 1-φ460

Unit: 1.00 each

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)
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.47	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	116.49	61.45	243.18	171.51	249.61	421.12	
W0025	Disposal of Demolished Debris	m3	0.47	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	10.69	8.35	45.82	30.32	34.54	64.86	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	42.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	805.76	819.66	29.38	311.04	1,343.76	1,654.80	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.23	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	9.18	298.00	60.82	208.90	159.10	368.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.23	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	9.36	0.12	49.87	26.72	32.62	59.34	
W0237	Concrete Curing (reinforced concrete)	m3	0.23	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.74	0.08	0.18	0.14	0.85	0.99	
W0241	Formwork (reinforced concrete H<4m)	m2	2.13	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	288.57	191.15	3.79	14.01	469.50	483.51	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	19.36	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	69.83	347.87	35.32	243.95	209.07	453.02	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	3.76	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	44.54	62.85	7.67	44.56	70.50	115.06	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,385.02	2,081.84	499.34	1,261.41	2,704.79	3,966.20	
Components (%)										34.9%	52.5%	12.6%	31.8%	68.2%	100.0%	
Unit Rate		each								1,386.35	2,083.83	499.82	1,262.62	2,707.38	3,970.00	

502(2)c2 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ610 x 1-φ460

Unit: 1.00 each

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)
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.53	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	131.36	69.30	274.22	193.41	281.47	474.88	
W0025	Disposal of Demolished Debris	m3	0.53	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	12.05	9.41	51.67	34.19	38.95	73.14	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	45.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	863.31	878.21	31.48	333.26	1,439.74	1,773.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.28	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	11.17	362.79	74.04	254.31	193.69	448.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.27	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	10.99	0.14	58.54	31.37	38.29	69.66	
W0237	Concrete Curing (reinforced concrete)	m3	0.27	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.87	0.09	0.21	0.16	1.00	1.16	
W0241	Formwork (reinforced concrete H<4m)	m2	2.36	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	319.73	211.79	4.20	15.53	520.19	535.72	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	21.63	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	78.01	388.67	39.46	272.56	233.58	506.14	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	4.52	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	53.54	75.55	9.22	53.56	84.75	138.31	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,510.91	2,288.24	566.36	1,398.60	2,966.91	4,365.51	
Components (%)										34.6%	52.4%	13.0%	32.0%	68.0%	100.0%	
Unit Rate		each								1,512.46	2,290.60	566.94	1,400.04	2,969.96	4,370.00	

502(2)c3 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ760 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0013	Demolition by Pneumatic Handheld Breaker (Lightly Reinforced Structures)	m3	0.59	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	146.24	77.14	305.26	215.30	313.34	528.64	
W0025	Disposal of Demolished Debris	m3	0.59	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	13.42	10.48	57.52	38.07	43.35	81.42	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	49.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	940.05	956.27	34.28	362.88	1,567.72	1,930.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.32	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	12.77	414.61	84.62	290.64	221.36	512.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.31	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	12.61	0.16	67.21	36.02	43.96	79.98	
W0237	Concrete Curing (reinforced concrete)	m3	0.31	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.99	0.10	0.24	0.19	1.14	1.33	
W0241	Formwork (reinforced concrete H<4m)	m2	2.58	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	349.54	231.53	4.59	16.97	568.69	585.66	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	23.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	85.84	427.66	43.42	299.90	257.02	556.92	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	5.04	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	59.70	84.24	10.28	59.72	94.50	154.22	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,651.03	2,494.51	630.74	1,529.94	3,246.33	4,776.27	
Components (%)										34.6%	52.2%	13.2%	32.0%	68.0%	100.0%	
Unit Rate			each							1,652.32	2,496.45	631.23	1,531.14	3,248.86	4,780.00	

502(2)c4 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ910 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0013	Demolition by Pneumatic Handheld Breaker (Lightly Reinforced Structures)	m3	0.64	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	158.63	83.68	331.13	233.55	339.89	573.44	
W0025	Disposal of Demolished Debris	m3	0.64	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	14.55	11.37	62.40	41.29	47.03	88.32	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	52.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	997.60	1,014.82	36.38	385.10	1,663.70	2,048.80	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.36	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	14.37	466.44	95.19	326.97	249.03	576.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.35	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	14.24	0.18	75.88	40.67	49.63	90.30	
W0237	Concrete Curing (reinforced concrete)	m3	0.35	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.12	0.11	0.27	0.21	1.29	1.50	
W0241	Formwork (reinforced concrete H<4m)	m2	2.81	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	380.70	252.17	5.00	18.49	619.38	637.87	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	26.07	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	94.03	468.45	47.56	328.51	281.53	610.04	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	5.81	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	68.82	97.11	11.85	68.85	108.94	177.79	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,773.93	2,686.64	688.98	1,653.88	3,495.68	5,149.56	
Components (%)										34.4%	52.2%	13.4%	32.1%	67.9%	100.0%	
Unit Rate			each							1,774.08	2,686.87	689.01	1,654.02	3,496.98	5,150.00	

502(2)c5		Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1070 x 1-φ460										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.70	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	173.50	91.52	362.18	255.44	371.76	627.20	
W0025	Disposal of Demolished Debris	m3	0.70	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	15.92	12.43	68.25	45.16	51.44	96.60	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	56.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,074.34	1,092.88	39.17	414.72	1,791.68	2,206.40	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.41	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	16.36	531.22	108.42	372.39	283.61	656.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.40	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	16.27	0.20	86.72	46.48	56.72	103.20	
W0237	Concrete Curing (reinforced concrete)	m3	0.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.28	0.13	0.31	0.24	1.48	1.72	
W0241	Formwork (reinforced concrete H<4m)	m2	3.04	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	411.86	272.81	5.41	20.00	670.08	690.08	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	28.34	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	102.22	509.24	51.70	357.12	306.04	663.16	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	6.57	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	77.82	109.81	13.40	77.86	123.18	201.04	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,919.45	2,912.57	758.88	1,799.64	3,791.26	5,590.90	
	Components (%)									34.3%	52.1%	13.6%	32.2%	67.8%	100.0%	
	Unit Rate	each								1,919.14	2,912.11	758.75	1,799.35	3,790.65	5,590.00	

502(2)c6		Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ460										Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.76	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	188.37	99.37	393.22	277.34	403.62	680.96	
W0025	Disposal of Demolished Debris	m3	0.76	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	17.28	13.50	74.10	49.03	55.85	104.88	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	59.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,131.90	1,151.43	41.27	436.94	1,887.66	2,324.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.45	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	17.96	583.06	118.99	408.72	311.28	720.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.44	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	17.90	0.22	95.40	51.12	62.40	113.52	
W0237	Concrete Curing (reinforced concrete)	m3	0.44	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.41	0.14	0.34	0.26	1.63	1.89	
W0241	Formwork (reinforced concrete H<4m)	m2	3.27	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	443.02	293.45	5.82	21.51	720.78	742.29	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	30.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	110.37	549.85	55.82	385.59	330.45	716.04	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	7.33	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	86.83	122.52	14.95	86.86	137.41	224.30	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,044.90	3,105.84	823.23	1,927.63	4,046.35	5,973.98	
	Components (%)									34.2%	52.0%	13.8%	32.3%	67.7%	100.0%	
	Unit Rate	each								2,043.54	3,103.78	822.68	1,926.34	4,043.66	5,970.00	

502(2)c7 Junction Box Converted to Curb Inlet Manhole for RCPC I-φ1520 x I-φ460

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.88	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	218.11	115.06	455.31	321.13	467.35	788.48	
W0025	Disposal of Demolished Debris	m3	0.88	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	20.01	15.63	85.80	56.78	64.66	121.44	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	66.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,266.19	1,288.04	46.17	488.78	2,111.62	2,600.40	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.53	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	21.15	686.70	140.15	481.38	366.62	848.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.52	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	21.16	0.26	112.74	60.42	73.74	134.16	
W0237	Concrete Curing (reinforced concrete)	m3	0.52	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.66	0.17	0.40	0.31	1.92	2.23	
W0241	Formwork (reinforced concrete H<4m)	m2	3.73	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	505.34	334.73	6.64	24.54	822.17	846.71	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	35.04	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	126.38	629.63	63.92	441.54	378.40	819.94	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	8.62	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	102.11	144.08	17.58	102.15	161.62	263.77	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,311.98	3,506.62	952.02	2,187.26	4,583.37	6,770.63	
	Components (%)									34.1%	51.8%	14.1%	32.3%	67.7%	100.0%	
	Unit Rate	each								2,311.77	3,506.30	951.94	2,187.06	4,582.94	6,770.00	

502(2)c12 Junction Box Converted to Curb Inlet Manhole for RCPC I-φ610 x I-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.59	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	146.24	77.14	305.26	215.30	313.34	528.64	
W0025	Disposal of Demolished Debris	m3	0.59	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	13.42	10.48	57.52	38.07	43.35	81.42	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	49.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	940.05	956.27	34.28	362.88	1,567.72	1,930.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.33	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	13.17	427.57	87.26	299.73	228.27	528.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.32	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	13.02	0.16	69.38	37.18	45.38	82.56	
W0237	Concrete Curing (reinforced concrete)	m3	0.32	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.02	0.10	0.24	0.19	1.18	1.37	
W0241	Formwork (reinforced concrete H<4m)	m2	2.62	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	354.95	235.12	4.66	17.24	577.50	594.74	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	24.25	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	87.46	435.75	44.24	305.57	261.88	567.45	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	4.52	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	53.54	75.55	9.22	53.56	84.75	138.31	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,652.75	2,510.46	635.39	1,539.96	3,258.63	4,798.59	
	Components (%)									34.4%	52.3%	13.2%	32.1%	67.9%	100.0%	
	Unit Rate	each								1,653.23	2,511.19	635.58	1,540.42	3,259.58	4,800.00	

502(2)c13 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ760 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.66	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	163.58	86.29	341.48	240.84	350.52	591.36	
W0025	Disposal of Demolished Debris	m3	0.66	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	15.01	11.72	64.35	42.58	48.50	91.08	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	52.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	997.60	1,014.82	36.38	385.10	1,663.70	2,048.80	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.38	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	15.16	492.35	100.48	345.14	262.86	608.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.37	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	15.05	0.19	80.22	42.99	52.47	95.46	
W0237	Concrete Curing (reinforced concrete)	m3	0.37	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.19	0.12	0.28	0.22	1.37	1.59	
W0241	Formwork (reinforced concrete H<4m)	m2	2.87	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	388.82	257.56	5.11	18.88	632.61	651.49	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	26.63	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	96.05	478.51	48.58	335.56	287.58	623.14	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	5.04	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	59.70	84.24	10.28	59.72	94.50	154.22	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,782.05	2,718.11	710.48	1,681.29	3,529.35	5,210.64	
	Components (%)									34.2%	52.2%	13.6%	32.3%	67.7%	100.0%	
	Unit Rate	each								1,781.83	2,717.78	710.39	1,681.08	3,528.92	5,210.00	

502(2)c14 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ910 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.72	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	178.46	94.14	372.53	262.74	382.38	645.12	
W0025	Disposal of Demolished Debris	m3	0.72	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	16.37	12.79	70.20	46.45	52.91	99.36	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	56.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,074.34	1,092.88	39.17	414.72	1,791.68	2,206.40	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.42	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	16.76	544.18	111.06	381.47	290.53	672.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.41	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	16.68	0.21	88.89	47.64	58.14	105.78	
W0237	Concrete Curing (reinforced concrete)	m3	0.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.31	0.13	0.31	0.25	1.51	1.76	
W0241	Formwork (reinforced concrete H<4m)	m2	3.14	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	425.40	281.79	5.59	20.66	692.12	712.78	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	29.13	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	105.07	523.43	53.14	367.07	314.57	681.64	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	5.81	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	68.82	97.11	11.85	68.85	108.94	177.79	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,933.09	2,938.97	776.06	1,820.09	3,828.04	5,648.13	
	Components (%)									34.2%	52.0%	13.7%	32.2%	67.8%	100.0%	
	Unit Rate	each								1,933.73	2,939.95	776.32	1,820.69	3,828.31	5,650.00	

502(2)c15 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1070 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.79	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	195.81	103.29	408.74	288.28	419.56	767.84	
W0025	Disposal of Demolished Debris	m3	0.79	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	17.97	14.03	77.02	50.97	58.05	109.02	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	59.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,131.90	1,151.43	41.27	436.94	1,887.66	2,324.60	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	0.47	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	18.75	608.96	124.28	426.88	325.12	752.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.46	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	18.72	0.23	99.73	53.45	65.23	118.68	
W0237	Concrete Curing (reinforced concrete)	m3	0.46	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.47	0.15	0.35	0.27	1.70	1.97	
W0241	Formwork (reinforced concrete H<4m)	m2	3.40	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	460.63	305.12	6.05	22.37	749.43	771.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	31.62	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	114.05	568.18	57.68	398.45	341.46	739.91	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	6.57	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	77.82	109.81	13.40	77.86	123.18	201.04	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,066.98	3,153.52	851.86	1,965.71	4,106.65	6,072.36	
Components (%)										34.0%	51.9%	14.0%	32.4%	67.6%	100.0%	
Unit Rate			each							2,066.18	3,152.29	851.53	1,964.95	4,105.05	6,070.00	

502(2)c16 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1220 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.85	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	210.68	111.14	439.79	310.18	451.42	761.60	
W0025	Disposal of Demolished Debris	m3	0.85	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	19.33	15.10	82.87	54.84	62.46	117.30	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	63.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,208.63	1,229.50	44.07	466.56	2,015.61	2,482.20	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	0.52	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	29.75	673.75	137.50	472.29	359.71	832.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.51	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	20.75	0.26	110.57	59.26	72.32	131.58	
W0237	Concrete Curing (reinforced concrete)	m3	0.51	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.63	0.17	0.39	0.31	1.88	2.19	
W0241	Formwork (reinforced concrete H<4m)	m2	3.67	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	497.21	329.35	6.53	24.14	808.95	833.09	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	34.11	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	123.03	612.92	62.23	429.82	368.35	798.17	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	7.33	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	86.83	122.52	14.95	86.86	137.44	224.30	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,218.71	3,386.99	922.22	2,114.51	4,413.42	6,527.93	
Components (%)										34.0%	51.9%	14.1%	32.4%	67.6%	100.0%	
Unit Rate			each							2,219.42	3,388.07	922.52	2,115.18	4,414.82	6,530.00	

502(2)c17 Junction Box Converted to Curb Inlet Manhole for RCPC 1-φ1520 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.98	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	242.90	128.13	507.05	357.62	520.46	878.08	
W0025	Disposal of Demolished Debris	m3	0.98	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	22.29	17.41	95.55	63.23	72.01	135.24	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	70.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,342.93	1,366.11	48.97	518.40	2,239.60	2,758.00	
W0203	Concrete (Class A. 21MPa, max agg. 38mm)	m3	0.62	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	24.74	803.31	163.95	563.12	428.88	992.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.61	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	24.82	0.31	132.25	70.87	86.51	157.38	
W0237	Concrete Curing (reinforced concrete)	m3	0.61	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.96	0.20	0.47	0.37	2.25	2.62	
W0241	Formwork (reinforced concrete H<4m)	m2	4.18	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	566.30	375.12	7.44	27.50	921.36	948.86	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	38.98	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	140.59	700.43	71.11	491.19	420.94	912.13	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	8.62	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	102.11	144.08	17.58	102.15	161.62	263.77	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,498.50	3,827.40	1,067.68	2,404.69	4,988.89	7,393.58	
Components (%)										33.8%	51.8%	14.4%	32.5%	67.5%	100.0%	
Unit Rate										2,497.29	3,825.54	1,067.16	2,403.53	4,986.47	7,390.00	

502(2)c21 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ460 x 1-φ460

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.68	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	168.54	88.91	351.83	248.14	361.14	609.28	
W0025	Disposal of Demolished Debris	m3	0.68	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	15.46	12.08	66.30	43.87	49.97	93.84	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	54.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,035.97	1,053.85	37.77	399.91	1,727.69	2,127.60	
W0203	Concrete (Class A. 21MPa, max agg. 38mm)	m3	0.39	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	15.56	505.31	103.13	354.22	269.78	624.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.38	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	15.46	0.19	82.39	44.15	53.89	98.04	
W0237	Concrete Curing (reinforced concrete)	m3	0.38	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.22	0.12	0.29	0.23	1.40	1.63	
W0241	Formwork (reinforced concrete H<4m)	m2	2.95	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	399.66	264.74	5.25	19.41	650.24	669.65	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	27.65	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	99.73	496.84	50.44	348.42	298.59	647.01	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	6.22	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	73.68	103.96	12.69	73.71	116.62	190.33	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,855.16	2,818.31	733.41	1,742.31	3,664.57	5,406.88	
Components (%)										34.3%	52.1%	13.6%	32.2%	67.8%	100.0%	
Unit Rate										1,856.23	2,819.94	733.83	1,743.31	3,666.69	5,410.00	

502(2)c22 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.81	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	200.76	105.91	419.09	295.58	430.18	725.76	
W0025	Disposal of Demolished Debris	m3	0.81	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	18.42	14.39	78.97	52.26	59.52	111.78	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	62.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,189.45	1,209.98	43.37	459.16	1,983.64	2,442.80	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	0.48	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	19.15	621.92	126.93	435.96	332.04	768.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	19.12	0.24	101.90	54.61	66.65	121.26	
W0237	Concrete Curing (reinforced concrete)	m3	0.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.51	0.15	0.36	0.28	1.74	2.02	
W0241	Formwork (reinforced concrete H<4m)	m2	3.47	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	470.11	311.40	6.18	22.83	764.86	787.69	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	32.58	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	117.51	585.43	59.44	410.54	351.83	762.37	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	7.82	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	92.63	130.71	15.95	92.67	146.62	239.29	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,158.54	3,272.43	875.50	2,034.14	4,272.33	6,306.47	
	Components (%)									34.2%	51.9%	13.9%	32.3%	67.7%	100.0%	
	Unit Rate	each								2,159.75	3,274.26	875.99	2,035.27	4,274.73	6,310.00	

502(2)c23 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.94	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	232.98	122.90	486.35	343.02	499.22	842.24	
W0025	Disposal of Demolished Debris	m3	0.94	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	21.38	16.70	91.65	60.65	69.07	129.72	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	70.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,342.93	1,366.11	48.97	518.40	2,239.60	2,758.00	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	0.58	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	23.14	751.49	153.37	526.79	401.21	928.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	23.19	0.29	123.58	66.23	80.83	147.06	
W0237	Concrete Curing (reinforced concrete)	m3	0.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.83	0.19	0.44	0.34	2.11	2.45	
W0241	Formwork (reinforced concrete H<4m)	m2	3.98	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	539.21	357.17	7.09	26.18	877.28	903.46	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	37.51	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	135.29	674.01	68.43	472.66	405.07	877.73	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	9.42	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	111.58	157.45	19.22	111.63	176.62	288.25	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,461.41	3,738.60	1,022.40	2,336.15	4,886.26	7,222.41	
	Components (%)									34.1%	51.8%	14.2%	32.3%	67.7%	100.0%	
	Unit Rate	each								2,460.58	3,737.36	1,022.06	2,335.37	4,884.63	7,220.00	

502(2)c24 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ460

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.07	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	265.21	139.90	553.61	390.46	568.26	958.72	
W0025	Disposal of Demolished Debris	m3	1.07	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	24.33	19.01	104.32	69.03	78.63	147.66	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	78.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,496.40	1,522.23	54.56	577.65	2,495.55	3,073.20	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.67	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	26.74	868.10	177.17	608.53	463.47	1,072.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.66	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	26.85	0.33	143.09	76.68	93.60	170.28	
W0237	Concrete Curing (reinforced concrete)	m3	0.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.11	0.22	0.50	0.39	2.44	2.83	
W0241	Formwork (reinforced concrete H<4m)	m2	4.50	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	609.65	403.83	8.01	29.61	991.89	1,021.50	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	42.44	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	153.07	762.60	77.42	534.79	458.31	993.10	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	11.02	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	130.54	184.19	22.48	130.59	206.62	337.21	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,764.78	4,192.72	1,164.50	2,627.99	5,494.01	8,122.00	
Components (%)										34.0%	51.6%	14.3%	32.4%	67.6%	100.0%	
Unit Rate			each							2,764.10	4,191.69	1,164.21	2,627.34	5,492.66	8,120.00	

502(2)c25 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ460

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.21	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	299.91	158.20	626.05	441.55	642.61	1,084.16	
W0025	Disposal of Demolished Debris	m3	1.21	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	27.52	21.49	117.97	78.07	88.91	166.98	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	87.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,669.07	1,697.87	60.86	644.30	2,783.50	3,427.80	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.79	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	31.52	1,023.58	208.90	717.52	546.48	1,264.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.77	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	31.33	0.39	166.94	89.47	109.19	198.66	
W0237	Concrete Curing (reinforced concrete)	m3	0.77	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.46	0.25	0.59	0.46	2.84	3.30	
W0241	Formwork (reinforced concrete H<4m)	m2	5.05	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	684.17	453.19	8.99	33.22	1,113.13	1,146.35	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	47.67	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	171.94	856.58	86.96	600.69	514.79	1,115.48	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	12.89	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	152.69	215.45	26.30	152.75	241.68	394.43	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,100.47	4,719.32	1,326.87	2,968.28	6,178.38	9,146.66	
Components (%)										33.9%	51.6%	14.5%	32.5%	67.5%	100.0%	
Unit Rate			each							3,101.60	4,721.04	1,327.36	2,969.36	6,180.61	9,150.00	

502(2)e26 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.35	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	334.61	176.51	698.49	492.64	716.96	1,209.60		
W0025	Disposal of Demolished Debris	m3	1.35	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	30.70	23.98	131.62	87.10	99.20	186.30		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	95.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,822.54	1,854.00	66.45	703.55	3,039.45	3,743.00		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.88	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	35.12	1,140.19	232.70	799.27	608.73	1,408.00	Less 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.86	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	34.99	0.44	186.45	99.92	121.96	221.88		
W0237	Concrete Curing (reinforced concrete)	m3	0.86	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.75	0.28	0.66	0.51	3.18	3.69		
W0241	Formwork (reinforced concrete H<4m)	m2	5.57	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	754.62	499.86	9.92	36.65	1,227.74	1,264.39		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	52.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	189.72	945.16	95.96	662.81	568.03	1,230.84		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	14.49	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	171.64	242.19	29.56	171.71	271.68	443.39		
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									3,406.56	5,174.91	1,475.12	3,264.40	6,792.19	10,056.59		
	Components (%)									33.9%	51.5%	14.7%	32.5%	67.5%	100.0%		
	Unit Rate	each								3,421.26	5,197.25	1,481.49	3,278.49	6,821.51	10,100.00		

502(2)e27 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ460

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.61	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	399.05	210.50	833.01	587.52	855.04	1,442.56		
W0025	Disposal of Demolished Debris	m3	1.61	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	36.61	28.60	156.97	103.87	118.31	222.18		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	111.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,129.50	2,166.25	77.65	822.04	3,551.36	4,373.40		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.07	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	42.70	1,386.36	282.94	971.84	740.16	1,712.00	Less 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.05	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	42.72	0.53	227.65	122.00	148.90	270.90		
W0237	Concrete Curing (reinforced concrete)	m3	1.05	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.36	0.34	0.80	0.63	3.87	4.50		
W0241	Formwork (reinforced concrete H<4m)	m2	6.60	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	894.16	592.29	11.75	43.42	1,454.78	1,498.20		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	62.47	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	225.32	1,122.52	113.96	787.19	674.61	1,461.80		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	17.69	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	209.55	295.68	36.09	209.63	331.68	541.31		
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									4,012.83	6,095.39	1,764.13	3,858.38	8,013.97	11,872.35		
	Components (%)									33.8%	51.3%	14.9%	32.5%	67.5%	100.0%		
	Unit Rate	each								4,022.18	6,109.58	1,768.24	3,867.36	8,032.61	11,900.00		

502(2)e32 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ610 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.91	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	225.55	118.98	470.83	332.07	483.29	815.36	
W0025	Disposal of Demolished Debris	m3	0.91	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	20.69	16.16	88.72	58.71	66.87	125.58	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	66.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,266.19	1,288.04	46.17	488.78	2,111.62	2,600.40	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.56	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	22.35	725.57	148.08	508.62	387.38	896.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.55	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	22.38	0.28	119.24	63.90	78.00	141.90	
W0237	Concrete Curing (reinforced concrete)	m3	0.55	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	1.76	0.18	0.42	0.33	2.03	2.36	
W0241	Formwork (reinforced concrete 1K4m)	m2	3.89	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	527.01	349.09	6.93	25.59	857.44	883.03	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	36.26	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	130.78	651.55	66.15	456.91	391.57	848.48	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	7.82	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	92.63	130.71	15.95	92.67	146.62	239.29	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,339.22	3,572.87	985.81	2,237.84	4,660.06	6,897.90	
Components (%)										33.9%	51.8%	14.3%	32.4%	67.6%	100.0%	
Unit Rate			each							2,339.93	3,573.96	986.11	2,238.52	4,661.48	6,900.00	

502(2)e33 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ760 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.05	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	260.25	137.28	543.27	383.16	557.64	940.80	
W0025	Disposal of Demolished Debris	m3	1.05	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	23.88	18.65	102.37	67.74	77.16	144.90	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	74.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,419.67	1,444.17	51.76	548.03	2,367.57	2,915.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.67	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	26.74	868.10	177.17	608.53	463.47	1,072.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.66	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	26.85	0.33	143.09	76.68	93.60	170.28	
W0237	Concrete Curing (reinforced concrete)	m3	0.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.11	0.22	0.50	0.39	2.44	2.83	
W0241	Formwork (reinforced concrete 1K4m)	m2	4.48	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	606.94	402.04	7.98	29.47	987.49	1,016.96	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	41.69	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	150.37	749.13	76.06	525.34	450.21	975.55	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	9.42	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	111.58	157.45	19.22	111.63	176.62	288.25	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,658.26	4,069.68	1,144.73	2,561.23	5,311.44	7,872.67	
Components (%)										33.8%	51.7%	14.5%	32.5%	67.5%	100.0%	
Unit Rate			each							2,657.36	4,068.29	1,144.34	2,560.36	5,309.64	7,870.00	

502(2)c34 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ910 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.20	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	297.43	156.90	620.88	437.90	637.30	1,075.20	
W0025	Disposal of Demolished Debris	m3	1.20	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	27.29	21.32	116.99	77.42	88.18	165.60	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	82.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,573.14	1,600.30	57.36	607.27	2,623.53	3,230.80	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.79	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	31.52	1,023.58	208.90	717.52	546.48	1,264.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.77	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	31.33	0.39	166.94	89.47	109.19	198.66	
W0237	Concrete Curing (reinforced concrete)	m3	0.77	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.46	0.25	0.59	0.46	2.84	3.30	
W0241	Formwork (reinforced concrete H<4m)	m2	5.06	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	685.52	454.09	9.01	33.29	1,115.33	1,148.62	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	47.12	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	169.95	846.70	85.96	593.76	508.85	1,102.61	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	11.02	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	130.54	184.19	22.48	130.59	206.62	337.21	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,979.06	4,580.01	1,312.43	2,897.93	5,973.57	8,871.50	
	Components (%)									33.6%	51.6%	14.8%	32.7%	67.3%	100.0%	
	Unit Rate	each								2,978.56	4,579.24	1,312.21	2,897.44	5,972.56	8,870.00	

502(2)c35 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1070 x 1-φ610

Unit: 1.00 each

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		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.36	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	337.08	177.82	703.66	496.29	722.27	1,218.56	
W0025	Disposal of Demolished Debris	m3	1.36	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	30.93	24.16	132.59	87.75	99.93	187.68	
W0751	Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill	each	91.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,745.81	1,775.94	63.66	673.92	2,911.48	3,585.40	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.91	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	36.31	1,179.06	240.63	826.52	629.48	1,456.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	36.21	0.45	192.96	103.41	126.21	229.62	
W0237	Concrete Curing (reinforced concrete)	m3	0.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.85	0.29	0.68	0.53	3.29	3.82	
W0241	Formwork (reinforced concrete H<4m)	m2	5.70	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	772.23	511.52	10.15	37.50	1,256.40	1,293.90	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	52.87	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	190.69	950.02	96.45	666.22	570.94	1,237.16	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00	
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	12.89	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	152.69	215.45	26.30	152.75	241.68	394.43	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,334.67	5,127.01	1,490.39	3,255.12	6,696.95	9,952.07	
	Components (%)									33.5%	51.5%	15.0%	32.7%	67.3%	100.0%	
	Unit Rate	each								3,333.98	5,125.94	1,490.08	3,254.45	6,695.55	9,950.00	

502(2)c36 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1220 x 1-φ610

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Component (PP)						
				Lab.	Mat.	Equip.	For.	Local			Material	Equipment	Foreign	Local			
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.50	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	371.78	196.12	776.10	547.37	796.63	1,344.00		
W0025	Disposal of Demolished Debris	m3	1.50	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	34.11	26.65	146.24	96.78	110.22	207.00		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	99.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	1,899.28	1,932.06	69.25	733.17	3,167.43	3,900.60		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.02	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	40.70	1,321.58	269.72	926.42	705.58	1,632.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.00	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	40.69	0.51	216.81	116.19	141.81	258.00		
W0237	Concrete Curing (reinforced concrete)	m3	1.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.20	0.33	0.76	0.60	3.69	4.29		
W0241	Formwork (reinforced concrete H<4m)	m2	6.28	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	850.81	563.57	11.18	41.32	1,384.24	1,425.56		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	58.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	210.28	1,047.59	106.36	734.64	629.58	1,364.22		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	14.49	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	171.64	242.19	29.56	171.71	271.68	443.39		
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										3,652.36	5,622.90	1,649.29	3,578.44	7,346.12	10,924.56		
Components (%)										33.4%	51.5%	15.1%	32.8%	67.2%	100.0%		
Unit Rate			each							3,644.15	5,610.26	1,645.59	3,570.40	7,329.60	10,900.00		

502(2)c37 Junction Box Converted to Curb Inlet Manhole for RCPC 2-φ1520 x 1-φ610

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Component (PP)						
				Lab.	Mat.	Equip.	For.	Local			Material	Equipment	Foreign	Local			
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.79	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	443.66	234.04	926.14	653.20	950.64	1,603.84		
W0025	Disposal of Demolished Debris	m3	1.79	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	40.71	31.80	174.52	115.49	131.53	247.02		
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	115.00	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	2,206.24	2,244.32	80.45	851.66	3,679.34	4,531.00		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.24	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	49.48	1,606.63	327.89	1,126.24	857.76	1,984.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.22	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	49.64	0.62	264.51	141.75	173.01	314.76		
W0237	Concrete Curing (reinforced concrete)	m3	1.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.90	0.40	0.93	0.73	4.50	5.23		
W0241	Formwork (reinforced concrete H<4m)	m2	7.46	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,010.67	669.47	13.28	49.08	1,644.34	1,693.42		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	69.15	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	249.41	1,242.55	126.15	871.36	746.75	1,618.11		
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.00	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	1.54	106.07	9.39	73.58	43.42	117.00		
W0702	Precast Concrete Cover (580x480x70), installation	each	1.00	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	9.38	0.11	1.01	0.56	9.94	10.50		
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	17.69	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	209.55	295.68	36.09	209.63	331.68	541.31		
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	4.00	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	18.96	186.12	12.92	136.10	81.90	218.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										4,293.13	6,617.80	1,973.27	4,229.39	8,654.80	12,884.19		
Components (%)										33.3%	51.4%	15.3%	32.8%	67.2%	100.0%		
Unit Rate			each							4,298.40	6,625.92	1,975.69	4,234.58	8,665.42	12,900.00		

502(3)a1 Catch Basin for RCPC 1-φ460mm

Unit: 1.00 each

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)		
W0161	Gravel Foundation Fill	m3	0.21	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	20.77	10.84	51.35	32.28	50.67	82.95	Loss 2.0%	
W0201	Lean Concrete (17MPa, max agr. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00		
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	2.42	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	96.57	3,135.52	639.92	2,197.99	1,674.01	3,872.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.37	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	96.43	1.20	513.83	275.37	336.09	611.46		
W0237	Concrete Curing (reinforced concrete)	m3	2.37	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.59	0.77	1.81	1.42	8.75	10.17		
W0241	Formwork (reinforced concrete H<4m)	m2	18.81	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,548.35	1,688.03	33.49	123.75	4,146.12	4,269.87		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	122.20	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	440.75	2,195.80	222.93	1,539.84	1,319.64	2,859.48	0.0%	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00		
Total										3,210.46	7,032.15	1,463.32	4,170.65	7,535.28	11,705.93		
Components (%)										27.4%	60.1%	12.5%	35.6%	64.4%	100.0%		
Unit Rate			each							3,208.83	7,028.59	1,462.58	4,168.53	7,531.47	11,700.00		

502(3)a2 Catch Basin for RCPC 1-φ610mm

Unit: 1.00 each

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)		
W0161	Gravel Foundation Fill	m3	0.27	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	26.70	13.93	66.02	41.50	65.15	106.65	Loss 2.0%	
W0201	Lean Concrete (17MPa, max agr. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00		
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	2.98	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	118.91	3,861.09	788.00	2,706.61	2,061.39	4,768.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.92	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	118.80	1.48	633.08	339.27	414.09	753.36		
W0237	Concrete Curing (reinforced concrete)	m3	2.92	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.35	0.95	2.23	1.75	10.78	12.53		
W0241	Formwork (reinforced concrete H<4m)	m2	23.15	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,136.33	2,077.50	41.22	152.30	5,102.75	5,255.05		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	148.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	533.81	2,659.40	270.00	1,864.95	1,598.25	3,463.20	0.0%	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00		
Total										3,943.91	8,614.35	1,800.53	5,106.39	9,252.40	14,358.79		
Components (%)										27.5%	60.0%	12.5%	35.6%	64.4%	100.0%		
Unit Rate			each							3,955.23	8,639.08	1,805.70	5,121.04	9,278.96	14,400.00		

502(3)a3 Catch Basin for RCPC 1-φ760mm

Unit: 1.00 each

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)		
W0161	Gravel Foundation Fill	m3	0.32	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	31.64	16.51	78.24	49.19	77.21	126.40	Loss 2.0%	
W0201	Lean Concrete (17MPa, max agr. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00		
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	3.55	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	141.66	4,599.62	938.72	3,224.32	2,455.68	5,680.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.48	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	141.59	1.76	754.49	404.34	493.50	897.84		
W0237	Concrete Curing (reinforced concrete)	m3	3.48	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	11.14	1.14	2.65	2.08	12.85	14.93		
W0241	Formwork (reinforced concrete H<4m)	m2	27.47	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,721.60	2,465.18	48.91	180.73	6,054.96	6,235.69		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	174.90	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	630.83	3,142.76	319.07	2,203.92	1,888.74	4,092.66	0.0%	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00		
Total										4,678.46	10,226.97	2,142.09	6,064.57	10,982.95	17,047.52		
Components (%)										27.4%	60.0%	12.6%	35.6%	64.4%	100.0%		
Unit Rate			each							4,665.42	10,198.46	2,136.11	6,047.66	10,952.34	17,000.00		

502(3)a4 Catch Basin for RCPC 1-φ910mm

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	0.37	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	36.59	19.09	90.47	56.87	89.28	146.15	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.16	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	166.00	5,389.98	1,100.02	3,778.36	2,877.64	6,656.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.08	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	166.00	2.06	884.58	474.05	578.59	1,052.64	
W0237	Concrete Curing (reinforced concrete)	m3	4.08	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.06	1.33	3.11	2.44	15.06	17.50	
W0241	Formwork (reinforced concrete H<4m)	m2	32.15	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,355.64	2,885.17	57.24	211.52	7,086.53	7,298.05	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	204.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	736.15	3,667.45	372.34	2,571.87	2,204.07	4,775.94	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,473.44	11,965.09	2,507.76	7,095.10	12,851.18	19,946.28	
Components (%)										27.4%	60.0%	12.6%	35.6%	64.4%	100.0%	
Unit Rate			each							5,460.74	11,937.33	2,501.94	7,078.64	12,821.36	19,900.00	

502(3)a5 Catch Basin for RCPC 1-φ1070mm

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	0.43	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	42.52	22.19	105.14	66.09	103.76	169.85	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.87	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	194.33	6,309.90	1,287.77	4,423.22	3,368.78	7,792.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.77	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	194.07	2.41	1,034.17	554.22	676.44	1,230.66	
W0237	Concrete Curing (reinforced concrete)	m3	4.77	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	15.27	1.56	3.63	2.86	17.60	20.46	
W0241	Formwork (reinforced concrete H<4m)	m2	37.44	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	5,072.32	3,359.90	66.66	246.32	8,252.56	8,498.88	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	236.20	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	851.92	4,244.25	430.90	2,976.36	2,550.72	5,527.08	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,370.44	13,940.21	2,928.27	8,269.07	14,969.86	23,238.93	
Components (%)										27.4%	60.0%	12.6%	35.6%	64.4%	100.0%	
Unit Rate			each							6,359.77	13,916.86	2,923.37	8,255.21	14,944.79	23,200.00	

502(3)a6 Catch Basin for RCPC 1-φ1220mm

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	0.50	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	49.44	25.80	122.25	76.85	120.65	197.50	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.58	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	222.66	7,229.82	1,475.51	5,068.08	3,859.92	8,928.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	222.55	2.77	1,185.94	635.55	775.71	1,411.26	
W0237	Concrete Curing (reinforced concrete)	m3	5.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	17.51	1.79	4.17	3.28	20.19	23.47	
W0241	Formwork (reinforced concrete H<4m)	m2	42.87	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	5,807.97	3,847.19	76.33	282.04	9,449.45	9,731.49	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	269.90	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	973.47	4,849.81	492.38	3,401.02	2,914.64	6,315.66	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										7,293.62	15,957.18	3,356.58	9,466.82	17,140.56	26,607.38	
Components (%)										27.4%	60.0%	12.6%	35.6%	64.4%	100.0%	
Unit Rate			each							7,291.60	15,952.75	3,355.65	9,464.19	17,135.81	26,600.00	

502(3)a7 Catch Basin for RCPC 1-φ1520mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.64	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	63.29	33.03	156.48	98.37	154.43	252.80	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	7.15	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	285.31	9,264.02	1,890.66	6,494.05	4,945.95	11,440.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	285.21	3.55	1,519.82	814.48	994.10	1,808.58	
W0237	Concrete Curing (reinforced concrete)	m3	7.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	22.44	2.29	5.34	4.20	25.87	30.07	
W0241	Formwork (reinforced concrete H(4m))	m2	54.79	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	7,422.88	4,916.90	97.55	360.46	12,076.87	12,437.33	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	343.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,240.02	6,177.71	627.20	4,332.23	3,712.69	8,044.92	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									9,319.15	20,397.50	4,297.06	12,103.79	21,909.91	34,013.70	
	Components (%)									27.4%	60.0%	12.6%	35.6%	64.4%	100.0%	
	Unit Rate	each								9,315.39	20,389.28	4,295.33	12,098.92	21,901.08	34,000.00	

502(3)b1 Catch Basin for RCPC 2-φ460mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.32	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	31.64	16.51	78.24	49.19	77.21	126.40	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.49	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	139.26	4,521.88	922.86	3,169.82	2,414.18	5,584.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.42	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	139.15	1.73	741.48	397.36	485.00	882.36	
W0237	Concrete Curing (reinforced concrete)	m3	3.42	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	10.95	1.12	2.61	2.05	12.62	14.67	
W0241	Formwork (reinforced concrete H(4m))	m2	25.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,386.97	2,243.52	44.51	164.48	5,510.52	5,675.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	167.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	602.70	3,002.60	304.84	2,105.63	1,804.51	3,910.14	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,310.67	9,787.37	2,094.54	5,888.53	10,304.04	16,192.57	
	Components (%)									26.6%	60.4%	12.9%	36.4%	63.6%	100.0%	
	Unit Rate	each								4,312.65	9,791.86	2,095.50	5,891.23	10,308.77	16,200.00	

502(3)b2 Catch Basin for RCPC 2-φ610mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.43	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	42.52	22.19	105.14	66.09	103.76	169.85	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.52	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	180.37	5,856.42	1,195.22	4,105.33	3,126.67	7,232.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.43	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	180.24	2.24	960.46	514.71	628.23	1,142.94	
W0237	Concrete Curing (reinforced concrete)	m3	4.43	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	14.18	1.45	3.37	2.65	16.35	19.00	
W0241	Formwork (reinforced concrete H(4m))	m2	31.96	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	4,329.90	2,868.12	56.90	210.26	7,044.66	7,254.92	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	214.50	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	773.66	3,854.33	391.31	2,702.92	2,316.38	5,019.30	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									5,520.86	12,604.74	2,712.40	7,601.97	13,236.04	20,838.01	
	Components (%)									26.5%	60.5%	13.0%	36.5%	63.5%	100.0%	
	Unit Rate	each								5,510.79	12,581.75	2,707.46	7,588.11	13,211.89	20,800.00	

502(3)b3 Catch Basin for RCPC 2-φ760mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.55	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	54.39	28.38	134.48	84.54	132.71	217.25	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.61	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	223.85	7,268.69	1,483.44	5,095.33	3,890.67	8,976.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.50	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	223.78	2.78	1,192.44	639.04	779.96	1,119.00	
W0237	Concrete Curing (reinforced concrete)	m3	5.50	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	17.61	1.80	4.19	3.29	20.31	23.60	
W0241	Formwork (reinforced concrete 11<4m)	m2	39.20	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	5,310.77	3,517.84	69.79	257.90	8,640.50	8,898.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	265.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	957.96	4,772.54	484.54	3,346.83	2,868.21	6,215.04	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,788.37	15,592.04	3,368.89	9,426.93	16,322.36	25,749.29	
Components (%)										26.4%	60.6%	13.1%	36.6%	63.4%	100.0%	
Unit Rate			each							6,775.37	15,562.19	3,362.41	9,408.89	16,291.12	25,700.00	

502(3)b4 Catch Basin for RCPC 2-φ910mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.67	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	66.25	34.58	163.82	102.98	161.67	264.65	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	6.80	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	271.35	8,810.54	1,798.11	6,176.16	4,703.84	10,880.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	6.67	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	271.38	3.37	1,446.11	774.98	945.88	1,720.86	
W0237	Concrete Curing (reinforced concrete)	m3	6.67	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	21.35	2.18	5.08	3.99	24.62	28.61	
W0241	Formwork (reinforced concrete 11<4m)	m2	47.11	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	6,382.40	4,227.69	83.87	309.94	10,384.03	10,693.97	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	316.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,139.75	5,678.17	576.48	3,981.92	3,412.48	7,394.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										8,152.48	18,756.53	4,073.48	11,349.97	19,632.52	30,982.49	
Components (%)										26.3%	60.5%	13.1%	36.6%	63.4%	100.0%	
Unit Rate			each							8,157.09	18,767.13	4,075.78	11,356.39	19,643.61	31,000.00	

502(3)b5 Catch Basin for RCPC 2-φ1070mm

Unit: 1.00 each

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		
W0161	Gravel Foundation Fill	m3	0.81	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	80.10	41.80	198.05	124.50	195.45	319.95	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	8.19	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	326.81	10,611.52	2,165.67	7,438.64	5,665.36	13,104.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	8.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	326.71	4.06	1,740.97	932.99	1,138.75	2,071.74	
W0237	Concrete Curing (reinforced concrete)	m3	8.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	25.71	2.62	6.12	4.81	29.64	34.45	
W0241	Formwork (reinforced concrete 11<4m)	m2	56.20	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	7,613.90	5,043.44	100.06	369.74	12,387.66	12,757.40	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	378.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,364.45	6,797.63	690.14	4,766.97	4,085.25	8,852.22	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										9,737.69	22,501.07	4,901.00	13,637.65	23,502.11	37,139.76	
Components (%)										25.2%	60.6%	13.2%	36.7%	63.3%	100.0%	
Unit Rate			each							9,727.26	22,476.99	4,895.75	13,623.05	23,476.95	37,100.00	

502(3)b6 Catch Basin for RCPC 2-φ1220mm										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
W0161	Gravel Foundation Fill	m3	0.96	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	94.93	49.54	234.73	147.56	231.64	379.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	9.60	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	383.08	12,438.41	2,538.54	8,719.28	6,640.72	15,360.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.41	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	382.86	4.76	2,040.16	1,093.33	1,334.45	2,427.78	
W0237	Concrete Curing (reinforced concrete)	m3	9.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	30.13	3.07	7.17	5.63	34.74	40.37	
W0241	Formwork (reinforced concrete H<4m)	m2	65.47	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	8,869.79	5,875.34	116.56	430.73	14,430.96	14,861.69	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	444.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,601.42	7,978.19	809.99	5,594.85	4,794.75	10,389.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										11,362.20	26,349.31	5,747.13	15,991.39	27,467.25	43,458.64	
Components (%)										26.1%	60.6%	13.2%	36.8%	63.2%	100.0%	
Unit Rate			each							1,137.02	26,374.39	5,752.60	16,006.61	27,493.39	43,500.00	

502(3)b7 Catch Basin for RCPC 2-φ1520mm										Unit: 1.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
W0161	Gravel Foundation Fill	m3	1.29	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	127.56	66.57	315.41	198.28	311.27	509.55	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	12.75	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	508.77	16,519.76	3,371.46	11,580.30	8,819.70	20,400.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	12.50	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	508.58	6.32	2,710.10	1,452.36	1,772.64	3,225.00	
W0237	Concrete Curing (reinforced concrete)	m3	12.50	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	40.02	4.08	9.53	7.48	46.15	53.63	
W0241	Formwork (reinforced concrete H<4m)	m2	85.98	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	11,648.46	7,715.92	153.08	565.66	18,951.80	19,517.46	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	583.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	2,102.76	10,475.87	1,063.57	7,346.40	6,295.80	13,642.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										14,936.16	34,788.53	7,623.13	21,150.48	36,197.36	57,347.84	
Components (%)										26.0%	60.7%	13.3%	36.9%	63.1%	100.0%	
Unit Rate			each							14,923.70	34,759.51	7,616.79	21,132.83	36,167.17	57,300.00	

502(4)a1 U-shaped Concrete Ditch W=0.50m x H=0.50m										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
W0161	Gravel Foundation Fill	m3	1.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	98.89	51.61	244.51	153.71	241.29	395.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.75	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	109.74	3,563.09	727.18	2,497.71	1,902.29	4,400.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.70	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	109.85	1.37	585.38	313.71	382.89	686.60	
W0237	Concrete Curing (reinforced concrete)	m3	2.70	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	8.64	0.88	2.06	1.62	9.96	11.58	
W0241	Formwork (reinforced concrete H<4m)	m2	23.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,116.01	2,064.04	40.96	151.32	5,069.68	5,221.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	123.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	446.52	2,224.55	225.85	1,560.01	1,336.91	2,896.92	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,889.65	7,905.53	1,825.92	4,678.07	8,943.03	13,621.10	
Components (%)										28.6%	58.0%	13.4%	34.3%	65.7%	100.0%	
Unit Rate			m							388.36	789.33	182.31	467.08	892.92	1,360.00	

502(4)a2 U-shaped Concrete Ditch W=0.75m x H=0.50m

Unit: 10.00 m

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		
W0161	Gravel Foundation Fill	m3	1.25	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	123.61	64.51	305.63	192.13	301.62	493.75	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.14	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	125.30	4,068.40	830.31	2,851.93	2,172.07	5,024.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.08	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	125.31	1.56	667.77	357.86	436.78	794.64	
W0237	Concrete Curing (reinforced concrete)	m3	3.08	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.86	1.01	2.35	1.84	11.37	13.21	
W0241	Formwork (reinforced concrete H<4m)	m2	23.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,116.01	2,064.04	40.95	151.32	5,069.68	5,221.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	140.00	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	504.95	2,515.65	255.40	1,764.14	1,511.86	3,276.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,005.04	8,715.15	2,102.41	5,319.23	9,503.37	14,822.60	
Components (%)										27.0%	58.8%	14.2%	35.9%	64.1%	100.0%	
Unit Rate			m							399.89	870.19	209.92	531.11	948.89	1,480.00	

502(4)a3 U-shaped Concrete Ditch W=0.30m x H=0.30m

Unit: 10.00 m

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		
W0161	Gravel Foundation Fill	m3	0.80	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	79.11	41.28	195.61	122.97	193.03	316.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.84	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	73.42	2,384.03	486.55	1,671.20	1,272.80	2,944.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.80	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	73.24	0.91	390.25	209.14	255.26	464.40	
W0237	Concrete Curing (reinforced concrete)	m3	1.80	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.76	0.59	1.37	1.08	6.64	7.72	
W0241	Formwork (reinforced concrete H<4m)	m2	15.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,032.18	1,346.11	26.71	98.69	3,306.31	3,405.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	97.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	350.94	1,748.37	177.51	1,226.08	1,050.74	2,276.82	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,614.65	5,521.30	1,277.99	3,329.14	6,084.80	9,413.94	
Components (%)										27.8%	58.7%	13.6%	35.4%	64.6%	100.0%	
Unit Rate			m							261.36	551.90	127.75	332.77	608.23	941.00	

502(4)b1 U-shaped Concrete Ditch with Grating Cover, W=0.30m x H=0.30m

Unit: 10.00 m

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		
W0161	Gravel Foundation Fill	m3	0.80	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	79.11	41.28	195.61	122.97	193.03	316.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.94	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	77.41	2,513.59	512.99	1,762.02	1,341.98	3,104.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.90	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	77.30	0.96	411.93	220.76	269.44	490.20	
W0237	Concrete Curing (reinforced concrete)	m3	1.90	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.08	0.62	1.45	1.14	7.01	8.15	
W0241	Formwork (reinforced concrete H<4m)	m2	17.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,303.14	1,525.59	30.27	111.84	3,747.16	3,859.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	100.20	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	361.40	1,800.48	182.80	1,262.62	1,082.06	2,344.68	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	4.20	9.1%	89.9%	1.0%	63.1%	36.9%	1,140.00	436.52	4,304.54	46.94	3,019.04	1,768.96	4,788.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,340.97	10,187.08	1,381.98	6,500.38	8,409.65	14,910.03	
Components (%)										22.4%	68.3%	9.3%	43.6%	56.4%	100.0%	
Unit Rate			m							333.87	1,018.02	138.11	649.60	840.40	1,490.00	

502(4)b2 U-shaped Concrete Ditch with Grating Cover, W=0.50m x H=0.50m

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0161	Gravel Foundation Fill	m3	1.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	98.89	51.61	244.51	153.71	241.29	395.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.00	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00	0.00	
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.68	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	106.94	3,472.39	708.67	2,434.13	1,853.87	4,288.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.63	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	107.01	1.33	570.20	305.58	372.96	678.54	
W0237	Concrete Curing (reinforced concrete)	m3	2.63	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	8.42	0.86	2.00	1.57	9.71	11.28	
W0241	Formwork (reinforced concrete II<4m)	m2	23.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	3,116.01	2,064.04	40.95	151.32	5,069.68	5,221.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	123.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	446.52	2,224.55	225.85	1,560.01	1,336.91	2,896.92	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	6.20	9.1%	89.9%	1.0%	63.1%	36.9%	1,140.00	644.39	6,354.32	69.29	4,456.67	2,611.33	7,068.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,528.17	14,169.09	1,861.48	9,062.99	11,495.75	20,558.74	
Components (%)										22.0%	68.9%	9.1%	44.1%	55.9%	100.0%	
Unit Rate			m							453.73	1,419.75	186.52	908.12	1,151.88	2,060.90	

502(6)a V-shaped Lined Ditch H=500mm, 1:1.50

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0109	Excavation, Manpower	m3	3.88	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	519.92	0.00	0.00	0.00	519.92	519.92	
W0115	Disposal of Surplus Soil (manpower loading)	m3	3.88	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	186.12	43.29	174.11	122.59	280.93	403.52	
W0741	Grouted Riprap Class A	m3	3.88	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	452.31	1,816.97	594.15	1,371.19	1,492.25	2,863.44	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,158.36	1,860.26	768.26	1,493.78	2,293.10	3,786.88	
Components (%)										30.6%	49.1%	20.3%	39.4%	60.6%	100.0%	
Unit Rate			m							115.93	186.18	76.69	149.50	229.50	379.00	

502(6)b V-shaped Lined Ditch H=500mm, 1:1.00

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0109	Excavation, Manpower	m3	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	486.42	0.00	0.00	0.00	486.42	486.42	
W0115	Disposal of Surplus Soil (manpower loading)	m3	3.63	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	174.13	40.50	162.89	114.69	262.83	377.52	
W0741	Grouted Riprap Class A	m3	3.63	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	423.17	1,699.90	555.87	1,282.84	1,396.10	2,678.94	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,083.72	1,740.40	718.76	1,397.53	2,145.35	3,542.88	
Components (%)										30.6%	49.1%	20.3%	39.4%	60.6%	100.0%	
Unit Rate			m							108.28	173.90	71.82	139.61	214.36	354.00	

502(7)a Trapezoidal Lined Ditch B=450mm, H=500mm, 1:1.00

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0109	Excavation, Manpower	m3	2.68	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	359.12	0.00	0.00	0.00	359.12	359.12	
W0115	Disposal of Surplus Soil (manpower loading)	m3	2.68	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	128.56	29.90	120.26	84.67	194.05	278.72	
W0741	Grouted Riprap Class A	m3	2.68	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	312.42	1,255.02	410.39	947.11	1,030.73	1,977.84	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										800.10	1,284.92	530.66	1,031.78	1,583.90	2,615.68	
Components (%)										30.6%	49.1%	20.3%	39.4%	60.6%	100.0%	
Unit Rate			m							80.14	128.70	53.15	103.35	158.65	262.00	

502(7)b Trapezoidal Lined Ditch B=1000mm, H=500mm, 1:1.00

Unit: 10.00 m

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		
W0109	Excavation, Manpower	m3	3.78	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	506.52	0.00	0.00	0.00	506.52	506.52	
W0115	Disposal of Surplus Soil (manpower loading)	m3	3.78	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	181.33	42.17	169.62	119.43	273.69	393.12	
W0741	Grouted Riprap Class A	m3	3.78	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	440.65	1,770.14	578.84	1,335.85	1,453.79	2,789.64	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,128.50	1,812.31	748.46	1,455.28	2,234.00	3,689.28	
Components (%)										30.6%	49.1%	20.3%	39.4%	60.6%	100.0%	
Unit Rate			m							112.87	181.27	74.86	145.56	223.41	369.00	

503(3)a Cleaning Culvert in Place, ϕ 910mm or less

Unit: 100.00 m

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		
L002	Foreman	md	0.49	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	282.24	0.00	0.00	0.00	282.24	282.24	
L020	Unskilled Labor	md	3.92	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,254.40	0.00	0.00	0.00	1,254.40	1,254.40	
Q1108-022	High Pressure Washer 2.2kW	day	0.98	0.0%	0.0%	100.0%	56.2%	43.8%	167.00	0.00	0.00	163.66	92.01	71.65	163.66	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.14	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	69.54	123.25	495.76	349.06	339.50	688.56	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	45.0%	55.0%		0.00	2.39	21.50	10.75	13.14	23.89	1.0%
Total										1,606.18	125.61	680.92	451.82	1,960.93	2,412.75	
Components (%)										66.6%	5.2%	28.2%	18.7%	81.3%	100.0%	
Unit Rate			m							16.04	1.25	6.80	4.51	19.59	24.10	

Miscellaneous covers the cost for scoop, shovel, broom, etc.

$Tl = L/(A \cdot E) + L \cdot Q \cdot t + Ll/V$

Tl : Total Operation Hour = 6.00 hr

L : Cleaning Length = 100.00 m

A : Work Capacity = 30.00 m/h

E : Efficiency = 0.85

Q : Required Water per m = 0.10 m3/m

t : Required Time for Water Supply = 0.20 hr/m3

Ll : Moving Distance = 1.90 km

V : Moving Velocity = 25.00 km/hr

T : Daily Operation Hour = 6.12 hr

503(3)b Cleaning Culvert in Place, more than ϕ 910mm

Unit: 100.00 m

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		
L002	Foreman	md	0.59	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	339.84	0.00	0.00	0.00	339.84	339.84	
L020	Unskilled Labor	md	4.68	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,497.60	0.00	0.00	0.00	1,497.60	1,497.60	
Q1108-022	High Pressure Washer 2.2kW	day	1.17	0.0%	0.0%	100.0%	56.2%	43.8%	167.00	0.00	0.00	195.39	109.85	85.54	195.39	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	2.06	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	125.67	222.72	895.85	630.75	613.49	1,244.24	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	45.0%	55.0%		0.00	3.28	29.49	14.75	18.02	32.77	1.0%
Total										1,963.11	226.00	1,120.74	755.35	2,554.49	3,309.84	
Components (%)										59.3%	6.8%	33.9%	22.8%	77.2%	100.0%	
Unit Rate			m							19.63	2.26	11.21	7.55	25.55	33.10	

Miscellaneous covers the cost for scoop, shovel, broom, etc.

$Tl = L/(A \cdot E) + L \cdot Q \cdot t + Ll/V$

Tl : Total Operation Hour = 7.18 hr

L : Cleaning Length = 100.00 m

A : Work Capacity = 25.00 m/h

E : Efficiency = 0.85

Q : Required Water per m = 0.12 m3/m

t : Required Time for Water Supply = 0.20 hr/m3

Ll : Moving Distance = 1.90 km

V : Moving Velocity = 25.00 km/hr

T : Daily Operation Hour = 6.12 hr

503(4)a Cleaning Reconditioning of RCBC, Single Barrel

Unit: 100.00 m

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		
L002	Foreman	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	368.64	0.00	0.00	0.00	368.64	368.64	
L020	Unskilled Labor	md	5.08	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,625.60	0.00	0.00	0.00	1,625.60	1,625.60	
Q1108-022	High Pressure Washer 2.2kW	day	1.27	0.0%	0.0%	100.0%	56.2%	43.8%	167.00	0.00	0.00	212.09	119.23	92.86	212.09	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	3.96	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	241.58	428.14	1,722.12	1,179.52	1,179.52	2,391.84	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	45.0%	55.0%		0.00	4.60	41.38	20.69	25.29	45.98	1.0%
Total										2,235.82	432.74	1,975.60	1,352.44	3,291.71	4,644.15	
Components (%)										48.1%	9.3%	42.5%	29.1%	70.9%	100.0%	
Unit Rate			m							22.34	4.32	19.74	13.51	32.89	46.40	

Miscellaneous covers the cost for scoop, shovel, broom, etc.

$Tl = L/(A \cdot E) + L \cdot Q \cdot t + Ll/V$

Tl : Total Operation Hour = 7.78 hr

L : Cleaning Length = 100.00 m

A : Work Capacity = 25.00 m/h

E : Efficiency = 0.85

Q : Required Water per m = 0.15 m3/m

t : Required Time for Water Supply = 0.20 hr/m3

Ll : Moving Distance = 1.90 km

V : Moving Velocity = 25.00 km/hr

T : Daily Operation Hour = 6.12 hr

503(4)b Cleaning Reconditioning of RCBC, Double Barrel

Unit: 100.00 m

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		
L002	Foreman	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	576.00							
L020	Unskilled Labor	md	5.48	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	397.44	0.00	0.00	0.00	397.44	397.44	
Q1108-022	High Pressure Washer 2.2kW	day	1.37	0.0%	0.0%	0.0%	0.0%	100.0%	167.00	1,753.60	0.00	0.00	0.00	1,753.60	1,753.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	6.60	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	0.00	0.00	228.79	128.62	100.17	228.79	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	45.0%	55.0%	0.00	402.63	713.57	2,870.21	2,020.86	1,965.54	3,986.40	
	Total								0.00	0.00	6.37	57.30	28.65	35.01	63.66	
	Components (%)								2,553.67	719.93	3,156.29	2,178.13	4,251.76	6,429.89	1.0%	
	Unit Rate	m							39.7%	11.2%	49.1%	33.9%	66.1%	100.0%		

Miscellaneous covers the cost for scoop, shovel, broom, etc.

TI = L/(A-E) + L-Q-t + L1/V

TI : Total Operation Hour = 8.38 hr
 L : Cleaning Length = 100.00 m
 A : Work Capacity = 25.00 m/h
 E : Efficiency = 0.85

Q : Required Water per m

t : Required Time for Water Supply

L1 : Moving Distance

V : Moving Velocity

T : Daily Operation Hour

0.18 m³/m

0.20 hr/m³

1.90 km

25.00 km/hr

6.12 hr

503(4)c Cleaning Reconditioning of RCBC, Triple Barrel

Unit: 100.00 m

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		
L002	Foreman	md	0.72	100.0%	0.0%	0.0%	0.0%	100.0%	576.00							
L020	Unskilled Labor	md	5.72	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	414.72	0.00	0.00	0.00	414.72	414.72	
Q1108-022	High Pressure Washer 2.2kW	day	1.43	0.0%	0.0%	0.0%	0.0%	100.0%	167.00	1,830.40	0.00	0.00	0.00	1,830.40	1,830.40	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.40	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	0.00	0.00	238.81	134.26	104.55	238.81	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	45.0%	55.0%	0.00	695.45	1,232.52	4,957.63	3,490.58	3,395.02	6,885.60	
	Total								0.00	0.00	9.37	84.33	42.16	51.53	93.70	
	Components (%)								2,940.57	1,241.89	5,280.77	3,667.00	5,796.22	9,463.23	1.0%	
	Unit Rate	m							31.1%	13.1%	55.8%	38.8%	61.2%	100.0%		

Miscellaneous covers the cost for scoop, shovel, broom, etc.

TI = L/(A-E) + L-Q-t + L1/V

TI : Total Operation Hour = 8.78 hr
 L : Cleaning Length = 100.00 m
 A : Work Capacity = 25.00 m/h
 E : Efficiency = 0.85

Q : Required Water per m

t : Required Time for Water Supply

L1 : Moving Distance

V : Moving Velocity

T : Daily Operation Hour

0.20 m³/m

0.20 hr/m³

1.90 km

25.00 km/hr

6.12 hr

504(5) Grouted Riprap Class A (slope protection)

Unit: 10.00 m³

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		
W0741	Grouted Riprap Class A	m ³	10.00	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	1,165.75	4,682.92	1,531.32	3,533.99	3,846.01	7,380.00	
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	3.30	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	49.23	13.03	135.08	82.01	115.33	197.34	
W0115	Disposal of Surplus Soil (manpower loading)	m ³	1.01	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	48.45	11.27	45.32	31.91	73.13	105.04	
W0133	Backfill C	m ³	2.28	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	38.43	39.05	253.12	163.03	167.57	330.60	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								0.00	0.00	0.00	0.00	0.00	0.00		
	Components (%)								1,301.87	4,746.26	1,964.85	3,810.94	4,202.04	8,012.98	0.0%	
	Unit Rate	m ³							16.2%	59.2%	24.5%	47.6%	52.4%	100.0%		

505(1) Stone Masonry Retaining Wall

Unit: 10.00 m³

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		
W0742	Stone Masonry, laid	m ³	10.00	14.5%	69.8%	15.7%	49.2%	50.8%	1,010.00	1,464.62	7,047.46	1,587.92	4,969.57	5,130.43	10,100.00	
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	4.98	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	74.30	19.66	203.84	123.75	174.05	297.80	
W0115	Disposal of Surplus Soil (manpower loading)	m ³	2.76	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	132.40	30.79	123.85	87.20	199.84	287.04	
W0133	Backfill C	m ³	2.22	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	37.42	38.02	246.46	158.74	163.16	321.90	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								0.00	0.00	0.00	0.00	0.00	0.00		
	Components (%)								1,708.74	7,135.93	2,162.08	5,339.27	5,667.47	11,096.74	0.0%	
	Unit Rate	m ³							15.5%	64.8%	19.6%	48.5%	51.5%	100.0%		

506(1) Hand-Laid Rock Apron (Loose Boulder Apron)

Unit: 100.00 m³

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		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00	
M0122	Crushed Aggregate, transported	m ³	113.00	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	2,720.06	4,583.97	22,188.96	13,863.94	15,629.06	29,493.00	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	8.70	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	681.21	1,271.59	13,185.20	8,004.77	7,133.23	15,138.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.00	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,881.27	5,855.56	35,374.16	21,868.71	23,242.29	45,111.00	
Components (%)										8.6%	13.0%	78.4%	48.5%	51.5%	100.0%	
Unit Rate			m ³							38.80	58.54	353.66	218.63	232.37	451.00	

507(2)a Steel Sheet Piles (76x457x4mm), furnished & driven

Unit: 100.00 m

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		
L002	Foreman	md	0.51	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	293.76	0.00	0.00	0.00	293.76	293.76	
L019	Skilled Labor	md	1.02	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	418.20	0.00	0.00	0.00	418.20	418.20	
L020	Unskilled Labor	md	0.51	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	163.20	0.00	0.00	0.00	163.20	163.20	
M02041	Steel Sheet Pile	kg	1,632.70	0.0%	100.0%	0.0%	70.0%	30.0%	32.10	0.00	52,409.67	0.00	36,686.77	15,722.90	52,409.67	
R0502-045	Vibratory Pile Driver, Hydraulic 45 t-m	hr	3.34	1.9%	22.6%	75.5%	55.7%	44.3%	3,420.00	217.03	2,581.55	8,624.21	6,360.60	5,062.20	11,422.80	
R1001-150	Generator 101-150 kW	day	0.51	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	961.05	880.05	1,103.73	737.37	1,841.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.00	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	148.96	180.88	2,330.16	1,382.18	1,277.82	2,660.00	
	Miscellaneous	LS	1.00	20.0%	20.0%	60.0%	50.0%	50.0%		415.25	415.25	1,245.76	1,038.13	1,038.13	2,076.26	3.0%
Total										1,656.41	56,548.41	13,080.18	46,571.40	24,713.59	71,284.99	
Components (%)										2.3%	79.3%	18.3%	65.3%	34.7%	100.0%	
Unit Rate			m							16.57	565.60	130.83	465.81	247.19	713.00	

Miscellaneous covers the costs for jointing, cut-off, adjustment, etc.

$$T_c = [(0.75 + \gamma \cdot N_{max}) \times L + \alpha] \times K / F$$

T_c : Required time for each sheet pile = 12.02 min/each

γ : Coefficient = 0.02

α : Coefficient = 3.68

L : Driving length = 6.000 m

N_{max}: Maximum SPT N-Value

30

K : Coefficient

1.02

F : Efficiency Factor

1.00

T : Operation Hour

6.56 hr/day

507(2)b Steel Sheet Piles (400x85x8mm), furnished & driven

Unit: 100.00 m

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		
L002	Foreman	md	0.51	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	293.76	0.00	0.00	0.00	293.76	293.76	
L019	Skilled Labor	md	1.02	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	418.20	0.00	0.00	0.00	418.20	418.20	
L020	Unskilled Labor	md	0.51	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	163.20	0.00	0.00	0.00	163.20	163.20	
M02041	Steel Sheet Pile	kg	3,550.00	0.0%	100.0%	0.0%	70.0%	30.0%	32.10	0.00	113,955.00	0.00	79,768.50	34,186.50	113,955.00	
R0502-045	Vibratory Pile Driver, Hydraulic 45 t-m	hr	3.34	1.9%	22.6%	75.5%	55.7%	44.3%	3,420.00	217.03	2,581.55	8,624.21	6,360.60	5,062.20	11,422.80	
R1001-150	Generator 101-150 kW	day	0.51	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	961.05	880.05	1,103.73	737.37	1,841.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.00	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	148.96	180.88	2,330.16	1,382.18	1,277.82	2,660.00	
	Miscellaneous	LS	1.00	20.0%	20.0%	60.0%	50.0%	50.0%		784.52	784.52	2,353.57	1,961.31	1,961.31	3,922.62	3.0%
Total										2,025.68	118,463.01	14,187.99	90,576.32	44,100.37	134,676.68	
Components (%)										1.5%	88.0%	10.5%	67.3%	32.7%	100.0%	
Unit Rate			m							20.31	1,187.47	142.22	907.94	442.06	1,350.00	

Miscellaneous covers the costs for jointing, cut-off, adjustment, etc.

$$T_c = [(0.75 + \gamma \cdot N_{max}) \times L + \alpha] \times K / F$$

T_c : Required time for each sheet pile = 12.02 min/each

γ : Coefficient = 0.02

α : Coefficient = 3.68

L : Driving length = 6.000 m

N_{max}: Maximum SPT N-Value

30

K : Coefficient

1.02

F : Efficiency Factor

1.00

T : Operation Hour

6.56 hr/day

509(1) Gabions										Unit: 10.00 m3						
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			
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L019	Skilled Labor	md	2.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,107.00	0.00	0.00	0.00	1,107.00	1,107.00	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
W09602	Gabion Cage 500x1000x2000	each	10.00	0.0%	100.0%	0.0%	30.0%	70.0%	710.00	0.00	7,100.00	0.00	2,130.00	4,970.00	7,100.00	
W0129	Gravel/Stone, transported	m3	9.50	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	223.64	352.26	1,314.60	848.68	1,041.82	1,890.50	-Loss 5.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	3.10	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	242.73	453.10	4,698.17	2,852.27	2,541.73	5,394.00	
M10202	Filter Cloth	m2	20.00	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	1,646.00	0.00	987.60	658.40	1,646.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,744.57	9,551.35	6,012.78	6,818.55	11,490.15	18,308.70	
Components (%)										15.0%	52.2%	32.8%	37.2%	62.8%	100.0%	
Unit Rate			m3							274.33	954.68	600.99	681.53	1,148.47	1,830.00	

509(2) Gabion Mattress t=300mm										Unit: 10.00 m3						
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			
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L019	Skilled Labor	md	2.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,107.00	0.00	0.00	0.00	1,107.00	1,107.00	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
W09605	Gabion Mat Cage t=300mm	m2	33.33	0.0%	100.0%	0.0%	30.0%	70.0%	617.00	0.00	20,564.61	0.00	6,169.38	14,395.23	20,564.61	
W0129	Gravel/Stone, transported	m3	9.50	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	223.64	352.26	1,314.60	848.68	1,041.82	1,890.50	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	3.10	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	242.73	453.10	4,698.17	2,852.27	2,541.73	5,394.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										2,744.57	21,369.96	6,012.78	9,870.33	20,256.98	30,127.31	
Components (%)										9.1%	70.9%	20.0%	32.8%	67.2%	100.0%	
Unit Rate			m3							274.21	2,135.06	600.73	986.14	2,023.86	3,010.00	

509(3) Filter Cloth										Unit: 10.00 m2						
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			
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	19.20	0.00	0.00	0.00	19.20	19.20	
M10202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	880.61	0.00	528.37	352.24	880.61	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	1.80	16.20	9.00	9.00	18.00	2.0%
Total										19.20	882.41	16.20	537.36	380.41	917.81	
Components (%)										2.1%	96.1%	1.8%	58.5%	41.5%	100.0%	
Unit Rate			m2							1.92	88.26	1.62	53.75	38.05	91.80	

510(1) Rubble Concrete Slope Protection										Unit: 10.00 m3						
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			
W0731	Rubble Concrete	m3	10.00	6.3%	50.8%	42.9%	52.5%	47.5%	937.00	587.85	4,762.99	4,019.16	4,918.24	4,451.76	9,370.00	
W0732	Granular Bedding for Rubble Concrete	m3	2.74	27.6%	12.4%	59.9%	37.4%	82.6%	404.00	305.88	137.78	663.30	414.44	692.52	1,106.95	
W0733	Washout Prevention Filter, furnish and Javing	m2	28.57	2.1%	96.1%	1.8%	58.5%	41.5%	91.80	54.87	2,521.58	46.28	1,535.58	1,087.15	2,622.73	
	Miscellaneous	LS	1.00	2.0%	55.0%	43.0%	50.0%	50.0%	0.00	5.24	144.10	112.65	131.00	131.00	261.99	2.0%
Total										953.84	7,566.45	4,841.40	6,999.25	6,362.43	13,361.68	
Components (%)										7.1%	56.6%	36.2%	52.4%	47.6%	100.0%	
Unit Rate			m3							95.66	758.81	485.53	701.93	638.07	1,340.00	

Miscellaneous covers the costs for subgrade preparation, weep holes, etc.

Part H Miscellaneous Structures

600(1)a Concrete Curb, Type A (200x450mm)

Unit: 100.00 m

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		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	8.04	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	320.83	10,417.17	2,126.01	7,302.40	5,561.60	12,864.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	7.88	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,761.41	3.52	31.71	19.38	1,777.26	1,796.64	
W0236	Concrete Curing (plain concrete)	m3	7.88	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	50.41	6.20	14.47	11.37	59.71	71.08	
W0240	Formwork (plain concrete 11K4m)	m2	90.19	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	11,972.17	8,071.94	158.45	589.78	19,612.78	20,202.56	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										14,104.82	18,498.83	2,330.63	7,922.92	27,011.35	34,934.28	
Components (%)										40.4%	53.0%	6.7%	22.7%	77.3%	100.0%	
Unit Rate			m							140.91	184.81	23.28	79.15	269.85	349.00	

600(1)b Concrete Curb, Type B (175x318mm)

Unit: 100.00 m

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		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	4.87	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	194.33	6,309.90	1,287.77	4,423.22	3,368.78	7,792.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	4.77	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,066.24	2.13	19.19	11.73	1,075.83	1,087.56	
W0236	Concrete Curing (plain concrete)	m3	4.77	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	30.52	3.75	8.76	6.88	36.15	43.03	
W0240	Formwork (plain concrete 11K4m)	m2	63.87	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	8,478.35	5,716.32	112.21	417.66	13,889.22	14,306.88	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										9,769.43	12,032.11	1,427.93	4,859.49	18,369.98	23,229.47	
Components (%)										42.1%	51.8%	6.1%	20.9%	79.1%	100.0%	
Unit Rate			m							97.57	120.17	14.26	48.53	183.47	232.00	

600(3)a Combination Concrete Curb & Gutter/Side Strip, Type A (675x364mm)

Unit: 100.00 m

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		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	13.82	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	551.47	17,906.13	3,654.40	12,552.13	9,559.87	22,112.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	13.55	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	3,028.82	6.06	54.52	33.32	3,056.08	3,089.40	
W0236	Concrete Curing (plain concrete)	m3	13.55	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	86.68	10.66	24.88	19.55	102.67	122.22	
W0240	Formwork (plain concrete 11K4m)	m2	71.50	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	9,491.19	6,399.20	125.62	467.56	15,548.44	16,016.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										13,158.16	24,322.04	3,859.41	13,072.56	28,267.06	41,339.62	
Components (%)										31.8%	58.8%	9.3%	31.6%	68.4%	100.0%	
Unit Rate			m							131.46	242.99	38.56	130.60	282.40	413.00	

600(3)b Combination Concrete Curb & Gutter/Side Strip, Type B (675x334mm)

Unit: 100.00 m

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		
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	13.31	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	531.12	17,245.33	3,519.54	12,088.92	9,207.08	21,296.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	13.05	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	2,917.06	5.83	52.51	32.09	2,943.31	2,975.40	
W0236	Concrete Curing (plain concrete)	m3	13.05	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	83.48	10.27	23.96	18.83	98.88	117.71	
W0240	Formwork (plain concrete 11K4m)	m2	65.52	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	8,697.38	5,863.99	115.11	428.45	14,248.03	14,676.48	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										12,229.04	23,125.43	3,711.12	12,568.29	26,497.30	39,065.59	
Components (%)										31.3%	59.2%	9.5%	32.2%	67.8%	100.0%	
Unit Rate			m							122.40	231.45	37.14	125.79	265.21	391.00	

600(3)c Combination Concrete Curb & Gutter, Type C (475x334mm)

Unit: 100.00 m

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		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.76	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	429.37	13,941.38	2,845.25	9,772.86	7,443.14	17,216.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	10.55	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	2,358.24	4.72	42.45	25.94	2,379.46	2,405.40	
W0236	Concrete Curing (plain concrete)	m3	10.55	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	67.49	8.30	19.37	15.22	79.94	95.16	0.0%
W0240	Formwork (plain concrete H<4m)	m2	71.50	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	9,491.19	6,399.20	125.62	467.56	15,548.44	16,016.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									12,346.28	20,353.60	3,032.68	10,281.58	25,450.98	35,732.56	
	Components (%)									34.6%	57.0%	8.5%	28.8%	71.2%	100.0%	
	Unit Rate	m								123.35	203.35	30.30	102.72	254.28	357.00	

601(1) PCC Pavement for Sidewalk (t=100mm)

Unit: 100.00 m2

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		
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	100.00	26.7%	12.6%	60.7%	38.6%	61.4%	54.70	1,459.85	691.88	3,318.27	2,111.63	3,358.37	5,470.00	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	100.00	17.0%	69.0%	6.6%	46.0%	46.6%	417.00	7,073.92	28,786.93	2,750.26	19,170.81	19,440.30	41,700.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									8,533.77	29,478.81	6,068.52	21,282.44	22,798.67	47,170.00	
	Components (%)									18.1%	62.5%	12.9%	45.1%	48.3%	100.0%	
	Unit Rate	m2								85.39	294.98	60.72	212.96	228.13	472.00	

602(1) Right-of-Way Monuments

Unit: 100.00 each

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		
W0109	Excavation, Manpower	m3	18.23	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	2,442.82	0.00	0.00	0.00	2,442.82	2,442.82	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.95	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	93.54	21.75	87.50	61.61	141.19	202.80	
W0135	Backfill, Manpower + Compactor	m3	16.28	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	989.24	70.23	202.23	155.54	1,106.16	1,261.70	Loss 2.0%
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.64	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	105.35	3,420.56	698.09	2,397.80	1,826.20	4,224.00	
W0235	Concrete Pouring by Manpower for small structures	m3	2.59	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	578.94	1.16	10.42	6.37	584.15	590.52	
W0236	Concrete Curing (plain concrete)	m3	2.59	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	16.57	2.04	4.75	3.74	19.62	23.36	0.0%
W0240	Formwork (plain concrete H<4m)	m2	72.00	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	9,557.56	6,443.95	126.49	470.83	15,657.17	16,128.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	346.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	1,250.84	6,231.61	632.67	4,370.03	3,745.09	8,115.12	3.0%
L019	Skilled Labor	wd	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,435.00	0.00	0.00	0.00	1,435.00	1,435.00	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	206.54	826.16	516.35	516.35	1,032.70	
	Total									16,469.85	16,397.84	2,588.33	7,982.27	27,473.75	35,456.02	
	Components (%)									46.5%	46.2%	7.3%	22.5%	77.5%	100.0%	
	Unit Rate	each								164.90	164.18	25.92	79.92	275.08	355.00	

Miscellaneous covers the cost for carving tools, etc.

602(2) Maintenance Marker Posts for Drainage Structure Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0109	Excavation, Manpower	m3	144.00	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	19,296.00	0.00	0.00	0.00	19,296.00		
W0135	Backfill, Manpower + Compactor	m3	3.00	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	182.29	12.94	37.27	28.66	203.84		
W0115	Disposal of Surplus Soil (manpower loading)	m3	141.00	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	6,763.79	1,573.01	6,327.20	4,454.87	10,209.13		
W0161	Gravel Foundation Fill	m3	0.00	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	0.00	0.00	0.00	0.00	0.00		
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.00	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%	
W0235	Concrete Pouring by Manpower for small structures	m3	0.00	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	0.00	0.00	0.00	0.00	0.00		
W0236	Concrete Curing (plain concrete)	m3	0.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	0.00	0.00	0.00	0.00	0.00		
W0243	Formwork (lean concrete)	m2	0.00	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	0.00	0.00	0.00	0.00	0.00		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.28	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	170.79	5,545.46	1,131.75	3,887.35	2,960.65	6,848.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	4.20	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	938.82	1.88	16.90	10.33	947.27	957.60	
W0237	Concrete Curing (reinforced concrete)	m3	4.20	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.45	1.37	3.20	2.51	15.51	18.02	
W0241	Formwork (reinforced concrete H<4m)	m2	104.00	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	14,089.79	9,333.05	185.16	684.22	22,923.78	23,608.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	640.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	2,308.71	11,501.89	1,167.74	8,065.91	6,912.43	14,978.34	
	Miscellaneous	LS	1.00	5.0%	50.0%	45.0%	50.0%	50.0%		120.90	1,209.04	1,088.13	1,209.04	1,209.04	2,418.07	3.0%
	Total									43,884.54	29,178.64	9,957.35	18,342.89	64,677.64	83,020.53	
	Components (%)									52.9%	35.1%	12.0%	22.1%	77.9%	100.0%	
	Unit Rate	each								438.74	291.71	99.55	183.38	646.62	830.00	

Miscellaneous covers the cost for paint, brushes, minor tools, etc.

602(3) Kilometer Post Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0109	Excavation, Manpower	m3	9.36	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,254.24	0.00	0.00	0.00	1,254.24		
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.23	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	59.00	13.72	55.19	38.86	89.06	127.92	
W0135	Backfill, Manpower + Compactor	m3	8.13	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	494.01	35.07	100.99	77.68	552.40	630.08	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.98	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	79.01	2,565.42	523.57	1,798.35	1,369.65	3,168.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.94	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	433.65	0.87	7.81	4.77	437.55	442.32	
W0237	Concrete Curing (reinforced concrete)	m3	1.94	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.21	0.63	1.48	1.16	7.16	8.32	
W0241	Formwork (reinforced concrete H<4m)	m2	22.01	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	2,981.89	1,975.20	39.19	144.80	4,851.47	4,996.27	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	61.20	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	220.74	1,099.70	111.65	771.18	660.90	1,432.08	
	Miscellaneous	LS	1.00	10.0%	50.0%	40.0%	50.0%	50.0%		36.18	180.89	144.71	180.89	180.89	361.78	3.0%
	Total									5,564.92	5,871.50	984.59	3,017.70	9,403.31	12,421.01	
	Components (%)									44.8%	47.3%	7.9%	24.3%	75.7%	100.0%	
	Unit Rate	each								555.55	586.16	98.29	301.26	938.74	1,240.00	

Miscellaneous covers the cost for paint, brushes, minor tools, etc.

603(3)a Metal Guardrails (Metal Beam) Type A (Embedded in Soil) Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L020	Unskilled Labor	md	29.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	9,280.00	0.00	0.00	0.00	9,280.00	9,280.00	
W0871	Guardrail Type A, furnish	m	100.00	8.0%	78.8%	13.2%	59.1%	40.9%	903.00	7,253.97	71,131.33	11,914.70	53,357.59	36,942.41	90,300.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									16,533.97	71,131.33	11,914.70	53,357.59	46,222.41	99,580.00	
	Components (%)									16.6%	71.4%	12.0%	53.6%	46.4%	100.0%	
	Unit Rate	m								165.37	711.46	119.17	533.68	462.32	996.00	

603(3)b Metal Guardrails (Metal Beam) Type B (Embedded in Concrete)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
L020	Unskilled Labor	md	16.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,120.00	0.00	0.00	0.00	5,120.00	5,120.00		
W0872	Guardrail Type B, furnish	m	100.00	9.3%	76.4%	14.3%	58.0%	42.0%	708.00	6,578.73	54,106.79	10,114.48	41,057.81	29,742.19	70,800.00		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	54.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	197.65	984.70	99.97	690.54	591.78	1,282.32		
	Miscellaneous	LS	1.00	10.0%	50.0%	40.0%	55.0%	45.0%		308.81	1,544.05	1,235.24	1,698.45	1,389.64	3,088.09	4.0%	
	Total									12,205.19	56,635.53	11,449.69	43,446.79	36,843.62	80,290.41		
	Components (%)									15.2%	70.5%	14.3%	54.1%	45.9%	100.0%		
	Unit Rate	m								122.07	566.42	114.51	434.52	368.46	803.00		

Miscellaneous covers the cost for sand fill, fixing devices, etc.

604(1) Fencing (Barbed Wire)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
L020	Unskilled Labor	md	16.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,120.00	0.00	0.00	0.00	5,120.00	5,120.00		
W04001	Lumber	m3	0.86	0.0%	100.0%	0.0%	10.0%	90.0%	14,800.00	0.00	12,728.00	0.00	1,272.80	11,455.20	12,728.00		
W02062	Barbed Wire	m	700.00	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	1,750.00	0.00	612.50	1,137.50	1,750.00		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	235.18	548.74	431.16	352.76	783.92	4.0%	
	Total									5,120.00	14,713.18	548.74	2,316.46	18,065.46	20,381.92		
	Components (%)									25.1%	72.2%	2.7%	11.4%	88.6%	100.0%		
	Unit Rate	m								51.25	147.28	5.49	23.19	180.81	204.00		

Miscellaneous covers the costs for fixing materials, cutting pliers, nippers, cart, minor tools, etc.

604(2) Fencing (Chain Link Fence Fabric)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
W0105	Excavation, Backhoe 0.61m3	m3	8.33	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	15.33	28.62	296.75	180.16	160.54	340.70		
W0111	Disposal of Surplus Soil (backhoe loading)	m3	6.29	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	48.29	86.41	450.89	301.10	284.50	585.60		
W0133	Backfill C	m3	2.04	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	34.39	34.94	226.48	145.87	149.93	295.80		
W0204	Concrete (Class C, 21MPa, max agr. 12mm)	m3	6.38	2.3%	82.7%	15.0%	57.0%	43.0%	1,700.00	249.72	8,971.54	1,624.74	6,182.50	4,663.50	10,846.00	Loss 2.0%	
W0235	Concrete Pouring by Manpower for small structures	m3	6.25	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,397.06	2.79	25.15	15.37	1,409.63	1,425.00		
W0236	Concrete Curing (plain concrete)	m3	6.25	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	39.99	4.92	11.48	9.02	47.36	56.38		
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	100.00	7.1%	81.6%	11.3%	60.1%	39.9%	876.00	6,242.19	71,491.96	9,865.85	52,654.88	34,945.12	87,600.00		
L002	Foreman	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,728.00	0.00	0.00	0.00	1,728.00	1,728.00		
L020	Unskilled Labor	md	20.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	6,400.00	0.00	0.00	0.00	6,400.00	6,400.00		
R0402-005	Truck Crane, Hydraulic 2-5t	hr	2.86	18.2%	10.9%	70.9%	45.6%	54.4%	413.00	214.97	128.75	837.46	538.74	642.44	1,181.18		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									16,369.94	80,749.93	13,338.79	60,027.64	50,431.02	110,458.66		
	Components (%)									14.8%	73.1%	12.1%	54.3%	45.7%	100.0%		
	Unit Rate	m								163.02	804.15	132.83	597.78	502.22	1,100.00		

604(3) Fencing (Chain Link Fence Fabric on Bridge Railing)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Total (PP)			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign		Local		
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	100.00	7.1%	81.6%	11.3%	60.1%	39.9%	876.00	6,242.19	71,491.96	9,865.85	52,654.88	34,945.12	87,600.00		
L002	Foreman	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,728.00	0.00	0.00	0.00	1,728.00	1,728.00		
L020	Unskilled Labor	md	20.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	6,400.00	0.00	0.00	0.00	6,400.00	6,400.00		
R0402-005	Truck Crane, Hydraulic 2-5t	hr	2.86	18.2%	10.9%	70.9%	45.6%	54.4%	413.00	214.97	128.75	837.46	538.74	642.44	1,181.18		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	581.46	387.61	533.00	436.09	969.09	1.0%	
	Total									14,585.16	72,202.17	11,090.94	53,726.62	44,151.65	97,878.27		
	Components (%)									14.9%	73.8%	11.3%	54.9%	45.1%	100.0%		
	Unit Rate	m								145.88	722.18	110.93	537.39	441.61	979.00		

Miscellaneous covers the cost for grouting, etc.

605(1)a Warning Signs (Triangular 900mm)

Unit: 10.00 each

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)
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
M07201	Traffic Sign Board (aluminum)	m2	3.51	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	48,438.00	0.00	31,484.70	16,953.30	48,438.00	
M08706	Steel Gas Pipe, 480	m	35.80	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.80	10,525.20	0.00	6,315.12	4,210.08	10,525.20	
M06003	Zinc Rich Primer for Steel	kg	1.10	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	411.40	0.00	267.41	143.99	411.40	
M06021	Phenol Resin Paint for Steel	kg	1.18	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	320.96	0.00	208.62	112.34	320.96	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	310.53	379.54	379.54	310.53	690.07	1.0%
	Total									5,870.98	62,869.93	955.85	40,068.72	29,628.04	69,696.76	
	Components (%)									8.4%	90.2%	1.4%	57.5%	42.5%	100.0%	
	Unit Rate	each								587.13	6,287.29	95.59	4,007.06	2,962.94	6,970.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(1)b Warning Signs (Circular 900mm)

Unit: 10.00 each

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)
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
M07201	Traffic Sign Board (aluminum)	m2	6.36	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	87,768.00	0.00	57,049.20	30,718.80	87,768.00	
M08706	Steel Gas Pipe, 480	m	34.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	9,996.00	0.00	5,997.60	3,998.40	9,996.00	
M06003	Zinc Rich Primer for Steel	kg	1.04	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	388.96	0.00	252.82	136.14	388.96	
M06021	Phenol Resin Paint for Steel	kg	1.12	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	304.64	0.00	198.02	106.62	304.64	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	484.96	592.73	592.73	484.96	1,077.69	1.0%
	Total									5,870.98	101,806.40	1,169.04	65,503.69	43,342.72	108,846.42	
	Components (%)									5.4%	93.5%	1.1%	60.2%	39.8%	100.0%	
	Unit Rate	each								587.93	10,195.00	117.07	6,559.61	4,340.39	10,900.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(2)a Regulatory Signs (Triangular 1039mm)

Unit: 10.00 each

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
M07201	Traffic Sign Board (aluminum)	m2	4.67	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	64,446.00	0.00	41,889.90	22,556.10	64,446.00	
M08706	Steel Gas Pipe, φ80	m	37.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	10,878.00	0.00	6,526.80	4,351.20	10,878.00	
M06003	Zinc Rich Primer for Steel	kg	1.13	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	422.62	0.00	274.70	147.92	422.62	
M06021	Phenol Resin Paint for Steel	kg	1.22	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	331.84	0.00	215.70	116.14	331.84	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	384.25	469.64	469.64	384.25	853.90	1.0%
Total										5,870.98	79,326.55	1,045.96	50,790.07	35,453.42	86,243.49	
Components (%)										6.8%	92.0%	1.2%	58.9%	41.1%	100.0%	
Unit Rate			each							586.80	7,928.66	104.54	5,076.45	3,543.55	8,620.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(2)b Regulatory Signs (Octagonal 600mm)

Unit: 10.00 each

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
M07201	Traffic Sign Board (aluminum)	m2	2.98	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	41,124.00	0.00	26,730.60	14,393.40	41,124.00	
M08706	Steel Gas Pipe, φ80	m	34.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	9,996.00	0.00	5,997.60	3,998.40	9,996.00	
M06003	Zinc Rich Primer for Steel	kg	1.04	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	388.96	0.00	252.82	136.14	388.96	
M06021	Phenol Resin Paint for Steel	kg	1.12	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	304.64	0.00	198.02	106.62	304.64	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	275.06	336.19	336.19	275.06	611.25	1.0%
Total										5,870.98	54,952.50	912.50	34,928.55	26,807.43	61,735.98	
Components (%)										9.5%	89.0%	1.5%	56.6%	43.4%	100.0%	
Unit Rate			each							586.76	5,492.05	91.20	3,490.82	2,679.18	6,170.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(2)c Regulatory Signs (Circular ϕ 600mm)

Unit: 10.00 each

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
W07201	Traffic Sign Board (aluminum)	m2	2.83	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	39,054.00	0.00	25,385.10	13,668.90	39,054.00	
W08706	Steel Gas Pipe, ϕ 80	m	34.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	9,996.00	0.00	5,997.60	3,998.40	9,996.00	
W06003	Zinc Rich Primer for Steel	kg	1.04	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	388.96	0.00	252.82	136.14	388.96	
W06021	Phenol Resin Paint for Steel	kg	1.12	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	304.64	0.00	198.02	106.62	304.64	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	265.75	324.80	324.80	265.75	590.55	1.0%
	Total									5,870.98	52,873.18	901.11	33,571.67	26,073.61	59,645.28	
	Components (%)									9.8%	88.6%	1.5%	56.3%	43.7%	100.0%	
	Unit Rate	each								586.65	5,283.30	90.64	3,354.62	2,605.38	5,960.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(2)d Regulatory Signs (Rectangular 450mmx750mm)

Unit: 10.00 each

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		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
W07201	Traffic Sign Board (aluminum)	m2	3.38	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	46,644.00	0.00	30,318.60	16,325.40	46,644.00	
W08706	Steel Gas Pipe, ϕ 80	m	35.50	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	10,437.00	0.00	6,262.20	4,174.80	10,437.00	
W06003	Zinc Rich Primer for Steel	kg	1.09	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	407.66	0.00	264.98	142.68	407.66	
W06021	Phenol Resin Paint for Steel	kg	1.17	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	318.24	0.00	206.86	111.38	318.24	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	302.03	369.15	369.15	302.03	671.18	1.0%
	Total									5,870.98	60,972.77	945.46	38,835.11	28,954.10	67,789.21	
	Components (%)									8.7%	89.9%	1.4%	57.3%	42.7%	100.0%	
	Unit Rate	each								587.19	6,098.25	94.56	3,884.13	2,893.87	6,780.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)a Informatory Signs (Rectangular 0.75x1.00m, single post)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00	
W07201	Traffic Sign Board (aluminum)	m2	7.50	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	103,500.00	0.00	67,275.00	36,225.00	103,500.00	
W08706	Steel Gas Pipe, 480	m	38.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	11,172.00	0.00	6,703.20	4,468.80	11,172.00	
W06003	Zinc Rich Primer for Steel	kg	1.16	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	433.84	0.00	282.00	151.84	433.84	
W06021	Phenol Resin Paint for Steel	kg	1.25	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	340.00	0.00	221.00	119.00	340.00	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	561.41	686.16	686.16	561.41	1,247.57	1.0%
	Total									5,870.98	118,871.08	1,262.48	76,580.68	49,423.86	126,004.54	
	Components (%)									4.7%	94.3%	1.0%	60.8%	39.2%	100.0%	
	Unit Rate	each								587.08	11,886.68	126.24	7,657.79	4,942.21	12,600.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)b Informatory Signs (Type A, double post)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Total (PP)		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L020	Unskilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,184.00	0.00	0.00	0.00	1,184.00	1,184.00	
W07201	Traffic Sign Board (aluminum)	m2	9.00	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	124,200.00	0.00	80,730.00	43,470.00	124,200.00	
W08705	Steel Gas Pipe, 465	m	86.00	0.0%	100.0%	0.0%	60.0%	40.0%	251.00	0.00	21,586.00	0.00	12,951.60	8,634.40	21,586.00	
W06003	Zinc Rich Primer for Steel	kg	2.28	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	852.72	0.00	554.27	298.45	852.72	
W06021	Phenol Resin Paint for Steel	kg	2.46	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	669.12	0.00	434.93	234.19	669.12	
W0109	Excavation, Manpower	m3	26.55	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	3,557.70	0.00	0.00	0.00	3,557.70	3,557.70	
W0115	Disposal of Surplus Soil (manpower loading)	m3	2.51	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	120.41	28.60	112.63	79.30	181.74	261.04	
W0135	Backfill, Manpower + Compactor	m3	24.04	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,460.76	103.70	298.63	229.68	1,633.42	1,863.10	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.56	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	102.15	3,316.91	676.94	2,325.14	1,770.86	4,096.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.51	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	561.06	1.12	10.10	6.17	566.11	572.28	
W0236	Concrete Curing (plain concrete)	m3	2.51	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	16.06	1.97	4.61	3.62	19.02	22.64	
W0240	Formwork (plain concrete H<4m)	m2	25.13	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	3,335.85	2,249.12	44.15	164.33	5,464.79	5,629.12	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	743.07	908.20	908.20	743.07	1,651.27	1.0%
	Total									10,971.59	153,751.74	2,055.26	98,387.25	68,391.34	166,778.59	
	Components (%)									6.6%	92.2%	1.2%	59.0%	41.0%	100.0%	
	Unit Rate	each								1,098.62	15,395.59	205.80	9,851.79	6,848.21	16,700.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)c Informatory Signs (Type B, double post)

Unit: 10.00 each

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		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L020	Unskilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,184.00	0.00	0.00	0.00	1,184.00	1,184.00	
W07201	Traffic Sign Board (aluminum)	m2	30.15	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	416,070.00	0.00	270,445.50	145,624.50	416,070.00	
W08707	Steel Gas Pipe, φ100	m	123.00	0.0%	100.0%	0.0%	60.0%	40.0%	410.00	0.00	50,430.00	0.00	30,258.00	20,172.00	50,430.00	
W06003	Zinc Rich Primer for Steel	kg	5.02	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	1,877.48	0.00	1,220.36	657.12	1,877.48	
W06021	Phenol Resin Paint for Steel	kg	5.41	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	1,471.52	0.00	956.49	515.03	1,471.52	
W0109	Excavation, Manpower	m3	26.55	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	3,557.70	0.00	0.00	0.00	3,557.70	3,557.70	
W0115	Disposal of Surplus Soil (manpower loading)	m3	2.51	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	120.41	28.00	112.63	79.30	181.71	261.04	
W0135	Backfill, Manpower + Compactor	m3	24.04	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,460.76	103.70	298.63	229.68	1,633.42	1,863.10	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.56	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	102.15	3,316.91	676.94	2,325.14	1,770.86	4,096.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.51	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	561.06	1.12	10.10	6.17	566.11	572.28	
W0236	Concrete Curing (plain concrete)	m3	2.51	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	16.06	1.97	4.61	3.62	19.02	22.64	
W0240	Formwork (plain concrete H(4m))	m2	25.13	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	3,335.85	2,249.12	44.15	164.33	5,464.79	5,629.12	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	2,194.51	2,682.18	2,682.18	2,194.51	4,876.68	1.0%
Total										10,971.59	477,744.34	3,829.24	308,370.78	184,174.39	492,545.16	
Components (%)										2.2%	97.0%	0.8%	62.6%	37.4%	100.0%	
Unit Rate			each							1,098.17	47,818.55	383.28	30,865.55	18,434.45	49,300.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)d Informatory Signs (Type C, double post)

Unit: 10.00 each

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		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L020	Unskilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,184.00	0.00	0.00	0.00	1,184.00	1,184.00	
W07201	Traffic Sign Board (aluminum)	m2	50.25	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	693,450.00	0.00	450,742.50	242,707.50	693,450.00	
W08708	Steel Gas Pipe, φ125	m	127.00	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	63,881.00	0.00	38,328.60	25,552.40	63,881.00	
W06003	Zinc Rich Primer for Steel	kg	6.48	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	2,423.52	0.00	1,575.29	848.23	2,423.52	
W06021	Phenol Resin Paint for Steel	kg	6.98	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	1,898.56	0.00	1,234.06	664.50	1,898.56	
W0109	Excavation, Manpower	m3	33.09	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	4,434.06	0.00	0.00	0.00	4,434.06	4,434.06	
W0115	Disposal of Surplus Soil (manpower loading)	m3	3.40	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	163.10	37.93	152.57	107.42	246.18	353.60	
W0135	Backfill, Manpower + Compactor	m3	29.69	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,804.09	128.08	368.82	283.66	2,017.32	2,300.98	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.47	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	138.47	4,496.97	917.57	3,151.66	2,400.34	5,552.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	3.40	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	760.00	1.52	13.68	8.36	766.84	775.20	
W0236	Concrete Curing (plain concrete)	m3	3.40	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	21.75	2.68	6.24	4.91	25.76	30.67	
W0240	Formwork (plain concrete H(4m))	m2	32.04	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	4,253.11	2,867.56	56.29	209.52	6,967.44	7,176.96	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	3,528.42	4,312.52	4,312.52	3,528.42	7,840.94	1.0%
Total										13,392.17	772,715.23	5,827.69	499,958.50	291,976.59	791,935.09	
Components (%)										1.7%	97.6%	0.7%	63.1%	36.9%	100.0%	
Unit Rate			each							1,339.33	77,277.86	582.82	49,999.96	29,200.05	79,200.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)e Informatory Signs (Type D, double post)

Unit: 10.00 each

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		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L020	Unskilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,184.00	0.00	0.00	0.00	1,184.00	1,184.00	
W07201	Traffic Sign Board (aluminum)	m2	70.35	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	970,830.00	0.00	631,039.50	339,790.50	970,830.00	
W08709	Steel Gas Pipe, φ150	m	133.00	0.0%	100.0%	0.0%	60.0%	40.0%	707.00	0.00	94,031.00	0.00	56,418.60	37,612.40	94,031.00	
W06003	Zinc Rich Primer for Steel	kg	8.15	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	3,048.10	0.00	1,981.27	1,066.84	3,048.10	
W06021	Phenol Resin Paint for Steel	kg	8.77	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	2,385.44	0.00	1,550.54	834.90	2,385.44	
W0109	Excavation, Manpower	m3	42.94	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	5,753.96	0.00	0.00	0.00	5,753.96	5,753.96	
W0115	Disposal of Surplus Soil (manpower loading)	m3	4.77	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	228.82	53.21	214.05	150.71	345.37	496.08	
W0135	Backfill, Manpower + Compactor	m3	38.17	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	2,319.36	164.66	474.16	364.68	2,593.50	2,958.18	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	4.87	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	194.33	6,309.90	1,287.77	4,423.22	3,368.78	7,792.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	4.77	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,066.24	2.13	19.19	11.73	1,075.83	1,087.56	
W0236	Concrete Curing (plain concrete)	m3	4.77	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	30.52	3.75	8.76	6.88	36.15	43.03	
W0240	Formwork (plain concrete 1K4m)	m2	42.41	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	5,629.67	3,795.66	74.51	277.33	9,222.51	9,499.84	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	4,948.84	6,048.59	6,048.59	4,948.84	10,997.43	1.0%
Total										17,040.49	1,085,572.71	8,127.02	702,273.04	408,457.18	1,110,740.22	
Components (%)										1.5%	97.7%	0.7%	63.2%	36.8%	100.0%	
Unit Rate			each							1,702.91	108,484.93	812.16	70,180.50	40,819.50	111,000.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)f Informatory Signs (Type E, triple post)

Unit: 10.00 each

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		
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	33.00	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	455,400.00	0.00	296,010.00	159,390.00	455,400.00	
W08707	Steel Gas Pipe, φ100	m	249.00	0.0%	100.0%	0.0%	60.0%	40.0%	410.00	0.00	102,090.00	0.00	61,254.00	40,836.00	102,090.00	
W06003	Zinc Rich Primer for Steel	kg	10.17	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	3,803.58	0.00	2,472.33	1,331.25	3,803.58	
W06021	Phenol Resin Paint for Steel	kg	10.95	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	2,978.40	0.00	1,935.96	1,042.44	2,978.40	
W0109	Excavation, Manpower	m3	39.82	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	5,335.88	0.00	0.00	0.00	5,335.88	5,335.88	
W0115	Disposal of Surplus Soil (manpower loading)	m3	3.77	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	180.85	42.06	169.17	119.11	272.97	392.08	
W0135	Backfill, Manpower + Compactor	m3	36.05	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	2,190.54	155.51	447.82	344.43	2,449.45	2,793.88	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	3.85	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	153.63	4,988.32	1,018.05	3,498.80	2,663.20	6,160.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	3.77	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	842.71	1.69	15.17	9.27	850.29	859.56	
W0236	Concrete Curing (plain concrete)	m3	3.77	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	24.12	2.97	6.92	5.44	28.57	34.01	
W0240	Formwork (plain concrete 1K4m)	m2	37.70	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	5,004.44	3,374.12	66.23	246.53	8,198.27	8,444.80	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	2,656.47	3,246.80	3,246.80	2,656.47	5,903.27	1.0%
Total										15,767.37	575,493.12	4,970.17	369,140.66	227,090.00	596,230.66	
Components (%)										2.6%	96.5%	0.8%	61.9%	36.1%	100.0%	
Unit Rate			each							1,576.13	57,527.05	496.83	36,899.79	22,700.21	59,600.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)g Informatory Signs (Type F, triple post)

Unit: 10.00 each

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		
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	66.00	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	910,800.00	0.00	592,020.00	318,780.00	910,800.00	
W08708	Steel Gas Pipe, φ125	m	255.00	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	128,265.00	0.00	76,959.00	51,306.00	128,265.00	
W06003	Zinc Rich Primer for Steel	kg	13.02	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	4,869.48	0.00	3,165.16	1,704.32	4,869.48	
W06021	Phenol Resin Paint for Steel	kg	14.02	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	3,813.44	0.00	2,478.74	1,334.70	3,813.44	
W0109	Excavation, Manpower	m3	49.64	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	6,651.76	0.00	0.00	0.00	6,651.76	6,651.76	
W0115	Disposal of Surplus Soil (manpower loading)	m3	5.11	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	245.13	57.01	229.30	161.45	369.99	531.44	
W0135	Backfill, Manpower + Compactor	m3	44.53	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	2,705.82	192.09	553.16	425.45	3,025.63	3,451.08	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.21	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	207.90	6,750.43	1,377.67	4,732.03	3,603.97	8,336.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	5.11	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,142.24	2.28	20.56	12.56	1,152.52	1,165.08	
W0236	Concrete Curing (plain concrete)	m3	5.11	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	32.69	4.02	9.38	7.37	38.72	46.09	
W0240	Formwork (plain concrete H<4m)	m2	48.07	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	6,381.00	4,302.23	84.45	314.34	10,453.34	10,767.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	4,863.30	5,944.03	5,944.03	4,863.30	10,807.32	1.0%
Total										19,401.73	1,063,919.28	8,218.56	686,220.13	405,319.44	1,091,539.57	
Components (%)										1.8%	97.5%	0.8%	62.9%	37.1%	100.0%	
Unit Rate			each							1,937.44	106,241.87	829.70	68,525.22	40,474.78	109,000.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(3)h Informatory Signs (Type G, triple post)

Unit: 10.00 each

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		
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	109.20	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	1,506,960.00	0.00	979,524.00	527,436.00	1,506,960.00	
W08709	Steel Gas Pipe, φ150	m	255.00	0.0%	100.0%	0.0%	60.0%	40.0%	707.00	0.00	180,285.00	0.00	108,171.00	72,114.00	180,285.00	
W06003	Zinc Rich Primer for Steel	kg	15.62	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	5,841.88	0.00	3,797.22	2,044.66	5,841.88	
W06021	Phenol Resin Paint for Steel	kg	16.82	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	4,575.04	0.00	2,973.78	1,601.26	4,575.04	
W0109	Excavation, Manpower	m3	64.41	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	8,630.94	0.00	0.00	0.00	8,630.94	8,630.94	
W0115	Disposal of Surplus Soil (manpower loading)	m3	7.16	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	343.47	79.88	321.30	226.22	518.42	744.64	
W0135	Backfill, Manpower + Compactor	m3	57.25	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	3,478.74	246.97	711.18	546.98	3,899.90	4,436.88	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	7.30	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	291.30	9,458.37	1,930.33	6,630.29	5,049.71	11,680.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	7.16	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,600.47	3.20	28.81	17.61	1,614.87	1,632.48	
W0236	Concrete Curing (plain concrete)	m3	7.16	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	45.80	5.63	13.15	10.33	54.25	64.58	
W0240	Formwork (plain concrete H<4m)	m2	63.62	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	8,445.16	5,693.94	111.77	416.03	13,834.85	14,250.88	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	7,835.12	9,576.26	9,576.26	7,835.12	17,411.38	1.0%
Total										24,871.08	1,720,985.03	12,692.78	1,111,889.70	646,659.19	1,758,549.90	
Components (%)										1.4%	97.9%	0.7%	63.2%	36.8%	100.0%	
Unit Rate			each							2,489.16	172,240.51	1,270.33	111,280.72	64,719.28	176,000.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(4)a Special Signs (750x600mm)

Unit: 10.00 each

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		
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	4.50	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	62,100.00	0.00	40,365.00	21,735.00	62,100.00	
W08706	Steel Gas Pipe, 680	m	34.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	9,996.00	0.00	5,997.60	3,998.40	9,996.00	
W06003	Zinc Rich Primer for Steel	kg	1.04	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	388.96	0.00	252.82	136.14	388.96	
W06021	Phenol Resin Paint for Steel	kg	1.12	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	304.64	0.00	198.02	106.62	304.64	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	372.79	455.64	455.64	372.79	828.43	1.0%
	Total									6,613.38	76,026.23	1,031.95	48,682.40	34,989.16	83,671.56	
	Components (%)									7.9%	90.9%	1.2%	58.2%	41.8%	100.0%	
	Unit Rate	each								661.56	7,605.21	103.23	4,869.89	3,500.11	8,370.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(4)b Special Signs (600x880mm)

Unit: 10.00 each

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		
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	5.28	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	72,864.00	0.00	47,361.60	25,502.40	72,864.00	
W08706	Steel Gas Pipe, 680	m	36.80	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	10,819.20	0.00	6,491.52	4,327.68	10,819.20	
W06003	Zinc Rich Primer for Steel	kg	1.13	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	422.62	0.00	274.70	147.92	422.62	
W06021	Phenol Resin Paint for Steel	kg	1.21	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	329.12	0.00	213.93	115.19	329.12	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete H<4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	425.20	519.69	519.69	425.20	944.88	1.0%
	Total									6,613.38	87,723.98	1,096.00	56,274.76	39,158.59	95,433.35	
	Components (%)									6.9%	91.9%	1.1%	59.0%	41.0%	100.0%	
	Unit Rate	each								661.11	8,769.33	109.56	5,625.51	3,914.49	9,540.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(4)c Special Signs (900x550mm)

Unit: 10.00 each

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)
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	4.95	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	68,310.00	0.00	44,401.50	23,908.50	68,310.00	
W08706	Steel Gas Pipe, 480	m	33.50	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	9,849.00	0.00	5,909.40	3,939.60	9,849.00	
W06003	Zinc Rich Primer for Steel	kg	1.03	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	385.22	0.00	250.39	134.83	385.22	
W06021	Phenol Resin Paint for Steel	kg	1.10	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	299.20	0.00	194.48	104.72	299.20	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete K4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	400.04	488.93	488.93	400.04	888.97	1.0%
	Total									6,613.38	82,107.29	1,065.25	52,658.03	37,127.89	89,785.92	
	Components (%)									7.4%	91.4%	1.2%	58.6%	41.4%	100.0%	
	Unit Rate	each								661.44	8,212.02	106.54	5,266.63	3,713.37	8,980.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

605(4)d Special Signs (850x750mm)

Unit: 10.00 each

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)
L002	Foreman	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	691.20	0.00	0.00	0.00	691.20	691.20	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
W07201	Traffic Sign Board (aluminum)	m2	6.38	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	88,044.00	0.00	57,228.60	30,815.40	88,044.00	
W08706	Steel Gas Pipe, 480	m	35.50	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	10,437.00	0.00	6,262.20	4,174.80	10,437.00	
W06003	Zinc Rich Primer for Steel	kg	1.09	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	407.66	0.00	264.98	142.68	407.66	
W06021	Phenol Resin Paint for Steel	kg	1.17	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	318.24	0.00	206.86	111.38	318.24	
W0109	Excavation, Manpower	m3	13.27	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	1,778.18	0.00	0.00	0.00	1,778.18	1,778.18	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.26	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	60.44	14.06	56.54	39.81	91.23	131.04	
W0135	Backfill, Manpower + Compactor	m3	12.01	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	729.78	51.81	149.19	114.75	816.03	930.78	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.29	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	51.48	1,671.41	341.11	1,171.65	892.35	2,064.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	1.26	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	281.65	0.56	5.07	3.10	284.18	287.28	
W0236	Concrete Curing (plain concrete)	m3	1.26	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	8.06	0.99	2.31	1.82	9.55	11.37	
W0240	Formwork (plain concrete K4m)	m2	12.57	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	1,668.59	1,125.01	22.08	82.20	2,733.48	2,815.68	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	491.67	600.93	600.93	491.67	1,092.60	1.0%
	Total									6,613.38	102,562.41	1,177.25	65,976.89	44,376.14	110,353.03	
	Components (%)									6.0%	92.9%	1.1%	59.8%	40.2%	100.0%	
	Unit Rate	each								659.22	10,223.43	117.35	6,576.58	4,423.42	11,000.00	

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

607(2)a ReflectORIZED Pavement Studs (Raised Profile Type, one face reflective)

Unit: 10.00 each

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)
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00	352.00	
W07401	ReflectORIZED Pavement Stud (one side reflective)	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	717.00	0.00	7,170.00	0.00	4,302.00	2,868.00	7,170.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	112.83	112.83	124.11	101.55	225.66	3.0%
	Total									352.00	7,282.83	112.83	4,426.11	3,321.55	7,747.66	
	Components (%)									4.5%	94.0%	1.5%	57.1%	42.9%	100.0%	
	Unit Rate	each								35.21	728.50	11.29	442.74	332.26	775.00	

Miscellaneous covers the cost for mortar, cutter, minor tools, etc.

607(2)b ReflectORIZED Pavement Studs (Raised Profile Type, two faces reflective)

Unit: 10.00 each

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)
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00		
M07402	ReflectORIZED Pavement Stud (two sides reflective)	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	776.00	0.00	7,760.00	0.00	4,656.00	3,104.00	7,760.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	121.68	121.68	4,777.68	121.68	243.36	3.0%
	Total									352.00	7,881.68	121.68	4,777.68	3,577.68	8,355.36	
	Components (%)									4.2%	94.3%	1.5%	57.2%	42.8%	100.0%	
	Unit Rate	each								35.22	788.61	12.17	478.03	357.97	836.00	

Miscellaneous covers the cost for mortar, cutter, minor tools, etc.

607(3) Chatter Bars (one side reflective)

Unit: 10.00 each

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)
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00		
M07405	Chatter Bar	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,740.00	0.00	17,400.00	0.00	10,440.00	6,960.00	17,400.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	266.28	266.28	10,706.28	266.28	532.56	3.0%
	Total									352.00	17,666.28	266.28	10,706.28	7,578.28	18,284.56	
	Components (%)									1.9%	96.6%	1.5%	58.6%	41.4%	100.0%	
	Unit Rate	each								35.23	1,768.12	26.65	1,071.53	758.47	1,830.00	

Miscellaneous covers the cost for mortar, cutter, minor tools, etc.

608(1) Furnishing and Placing Top Soil for Plantation

Unit: 10.00 m3

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)
M03001	Quarry Royalty (Borrow Soil)	m3	12.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	180.00	0.00	0.00	180.00	180.00	Loss 20.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.28	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	21.92	40.92	424.35	257.62	229.58	487.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	3.47	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	211.68	375.16	1,509.03	1,062.48	1,033.40	2,095.88	
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	608.00	0.00	0.00	0.00	608.00	608.00	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	50.0%	50.0%	0.00	3.37	20.23	43.82	33.71	33.71	67.42	2.0%
	Total									844.98	616.31	1,977.21	1,353.82	2,084.68	3,438.50	
	Components (%)									24.6%	17.9%	57.5%	39.4%	60.6%	100.0%	
	Unit Rate	m3								84.53	61.66	197.81	135.44	208.56	344.00	

Miscellaneous covers the costs for screening, sieving, selection of soil, compaction, etc.

Q = 3600-q-f-E/Cm (Backhoe)

Q : Excavation Volume per hour = 42.48 m3/hr

q : Excavation Volume per Cycle = 0.59 m3

f : Volume Coefficient = 1.00

E : Efficiency = 0.60

Cm : Cycle Time = 30.00 sec

Q = q-f-E/Cm (Dump Truck)

Q : Transportation Volume per hour = 3.46 m3/hr

q : Loading Capacity of a Truck = 6.70 m3

f : Volume Coefficient = 1.00

E : Efficiency = 0.90

Cm : Cycle Time = A + 2-L/V = 1.74 hr

V : Vehicle speed = 30.00 km/hr

a : Loading time = 0.27 hr

L : Average Distance from Quarry = 22.10 km

Unskilled labor for filling work

610(1) Sodding

Unit: 100.00 m2

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)
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L020	Unskilled Labor	md	6.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,048.00	0.00	0.00	0.00	2,048.00	2,048.00	
M1111	Sod	m2	100.00	0.0%	100.0%	0.0%	7.0%	93.0%	29.40	0.00	2,940.00	0.00	205.80	2,734.20	2,940.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	106.67	106.67	205.80	106.67	213.34	4.0%
	Total									2,393.60	3,046.67	106.67	312.47	5,234.47	5,546.94	
	Components (%)									43.2%	54.9%	1.9%	5.6%	94.4%	100.0%	
	Unit Rate	m2								23.95	30.48	1.07	3.13	52.37	55.50	

Miscellaneous covers the cost for pins, minor tools, minor materials, etc.

611(1)a Trees (Furnishing and Transplanting) Low Tree H≤1.5m

Unit: 10.00 each

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)	
M11002	Tree H=1m	each	10.00	0.0%	100.0%	0.0%	7.0%	93.0%	215.00	0.00	2,150.00	0.00	0.00	150.50	1,999.50	2,150.00	
W0911	Digging Out Tree, Low Tree H≤1.5m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	18.90	189.00	0.00	0.00	0.00	189.00	0.00	189.00	
W0921	Tree Haulage, Low Tree H≤1.5m	each	10.00	13.7%	19.2%	67.1%	48.9%	51.1%	25.10	34.39	48.19	168.42	122.69	128.31	251.00		
W0931	Tree Planting, Low Tree H≤1.5m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	9.27	92.70	0.00	0.00	0.00	92.70	0.00	92.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										316.09	2,198.19	168.42	273.19	2,409.51	2,682.70		
Components (%)										11.8%	81.9%	6.3%	10.2%	89.8%	100.0%		
Unit Rate			each							31.58	219.60	16.83	27.29	240.71	268.00		

611(1)b Trees (Furnishing and Transplanting) Medium Tree 1.5m<H≤3.0m

Unit: 10.00 each

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)
M11003	Tree H=1.5m	each	10.00	0.0%	100.0%	0.0%	7.0%	93.0%	503.00	0.00	5,030.00	0.00	352.10	4,677.90	5,030.00	
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	36.30	363.00	0.00	0.00	0.00	363.00	363.00	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	10.00	13.7%	19.2%	67.1%	48.9%	51.1%	47.80	65.49	91.78	320.74	233.66	244.34	478.00	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	27.70	277.00	0.00	0.00	0.00	277.00	277.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										705.49	5,121.78	320.74	585.76	5,562.24	6,148.00	
Components (%)										11.5%	83.3%	5.2%	9.5%	90.5%	100.0%	
Unit Rate			each							70.57	512.34	32.08	58.59	556.41	615.00	

611(1)c Trees (Furnishing and Transplanting) High Tree (young tree) 1.5m<H≤3.0m

Unit: 10.00 each

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)
M11004	Tree H=2m	each	10.00	0.0%	100.0%	0.0%	7.0%	93.0%	838.00	0.00	8,380.00	0.00	586.60	7,793.40	8,380.00	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	64.20	642.00	0.00	0.00	0.00	642.00	642.00	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	10.00	13.7%	19.2%	67.1%	48.9%	51.1%	83.00	113.71	159.36	556.93	405.72	424.28	830.00	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	115.00	1,150.00	0.00	0.00	0.00	1,150.00	1,150.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,905.71	8,539.36	556.93	992.32	10,009.68	11,002.00	
Components (%)										17.3%	77.6%	5.1%	9.0%	91.0%	100.0%	
Unit Rate			each							190.54	853.78	55.68	99.21	1,000.79	1,100.00	

611(2)a Trees (Transplanting) Low Tree H≤1.5m

Unit: 10.00 each

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)
W0911	Digging Out Tree, Low Tree H≤1.5m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	18.90	189.00	0.00	0.00	0.00	189.00	189.00	
W0921	Tree Haulage, Low Tree H≤1.5m	each	10.00	13.7%	19.2%	67.1%	48.9%	51.1%	25.10	34.39	48.19	168.42	122.69	128.31	251.00	
W0931	Tree Planting, Low Tree H≤1.5m	each	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	9.27	92.70	0.00	0.00	0.00	92.70	92.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	53.27	10.0%
Total										316.09	48.19	168.42	122.69	410.01	585.97	
Components (%)										53.9%	8.2%	28.7%	20.9%	70.0%	100.0%	
Unit Rate			each							31.61	4.82	16.84	12.27	41.00	58.60	

Miscellaneous covers the cost for storage, maintenance, fertilizer, etc.

611(2)b Trees (Transplanting) Medium Tree 1.5m<H≤3.0m

Unit: 100.00 each

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)
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	100.00	100.0%	0.0%	0.0%	0.0%	100.0%	36.30	3,630.00	0.00	0.00	0.00	3,630.00	3,630.00	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	100.00	13.7%	19.2%	67.1%	48.9%	51.1%	47.80	654.86	917.76	3,207.38	2,336.57	2,443.43	4,780.00	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	100.00	100.0%	0.0%	0.0%	0.0%	100.0%	27.70	2,770.00	0.00	0.00	0.00	2,770.00	2,770.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	1,118.00	10.0%
Total										7,054.86	917.76	3,207.38	2,336.57	8,843.43	12,298.00	
Components (%)										57.4%	7.5%	26.1%	19.0%	71.9%	100.0%	
Unit Rate			each							70.56	9.18	32.08	23.37	88.45	123.00	

Miscellaneous covers the cost for storage, maintenance, fertilizer, etc.

611(2)c Trees (Transplanting) High Tree (young tree) 1.5m<H≤3.0m

Unit: 100.00 each

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)
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	100.00	100.0%	0.0%	0.0%	0.0%	100.0%	64.20	6,420.00	0.00	0.00	0.00	6,420.00	6,420.00	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	100.00	13.7%	19.2%	67.1%	48.9%	51.1%	83.00	1,137.10	1,593.60	5,569.30	4,057.22	4,242.78	8,300.00	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	100.00	100.0%	0.0%	0.0%	0.0%	100.0%	115.00	11,500.00	0.00	0.00	0.00	11,500.00	11,500.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	2,622.00	10.0%
	Total									19,057.10	1,593.60	5,569.30	4,057.22	22,162.78	28,842.00	
	Components (%)									66.1%	5.5%	19.3%	14.1%	76.8%	100.0%	
	Unit Rate	each								190.29	15.91	55.61	40.51	221.31	288.00	

Miscellaneous covers the cost for storage, maintenance, fertilizer, etc.

611(3)a Planter Box of CHB (1.00m x 1.00m) for Road Side Plantation

Unit: 10.00 each

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)
W0109	Excavation, Manpower	m3	19.86	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	2,661.24	0.00	0.00	0.00	2,661.24	2,661.24	
W0115	Disposal of Surplus Soil (manpower loading)	m3	5.61	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	269.11	62.59	251.74	177.25	406.19	583.44	
W0135	Backfill, Manpower + Compactor	m3	14.25	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	865.89	61.47	177.02	136.15	968.23	1,104.38	
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L007	Masonry	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	471.00	0.00	0.00	0.00	471.00	471.00	
L020	Unskilled Labor	md	2.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	864.00	0.00	0.00	0.00	864.00	864.00	
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	433.50	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	5,202.00	0.00	1,300.50	3,901.50	5,202.00	Loss 2.0%
W0221	Mortar (1:3)	m3	1.70	1.7%	93.7%	4.6%	58.1%	41.9%	1,820.00	51.59	2,960.27	142.14	1,796.23	1,297.77	3,094.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.44	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	17.51	517.37	116.32	367.97	283.23	651.20	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.43	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	96.12	0.19	1.73	1.06	96.98	98.04	
W0236	Concrete Curing (plain concrete)	m3	0.43	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	2.75	0.34	0.79	0.62	3.26	3.88	
W0243	Formwork (lean concrete)	m2	3.40	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	216.65	299.47	4.08	19.77	500.43	520.20	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	31.31	125.25	86.11	70.45	156.57	1.0%
	Total									5,919.06	9,075.01	819.08	3,885.65	11,927.49	15,813.15	
	Components (%)									37.4%	57.4%	5.2%	24.6%	75.4%	100.0%	
	Unit Rate	each								591.41	906.75	81.84	388.24	1,191.76	1,580.00	

Miscellaneous covers the cost for cart, minor tools, etc.

611(3)b Planter Box of CHB (3.00m x 1.00m) for Road Side Plantation

Unit: 10.00 each

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)
W0109	Excavation, Manpower	m3	40.76	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	5,461.84	0.00	0.00	0.00	5,461.84	5,461.84	
W0115	Disposal of Surplus Soil (manpower loading)	m3	16.71	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	801.58	186.42	749.84	527.95	1,209.89	1,737.84	
W0135	Backfill, Manpower + Compactor	m3	24.05	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,461.38	103.75	298.76	229.78	1,634.10	1,863.88	
L002	Foreman	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,036.80	0.00	0.00	0.00	1,036.80	1,036.80	
L007	Masonry	md	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	1,177.50	0.00	0.00	0.00	1,177.50	1,177.50	
L020	Unskilled Labor	md	6.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,176.00	0.00	0.00	0.00	2,176.00	2,176.00	
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	1,082.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	12,984.00	0.00	3,246.00	9,738.00	12,984.00	Loss 2.0%
W0221	Mortar (1:3)	m3	4.32	1.7%	93.7%	4.6%	58.1%	41.9%	1,820.00	131.09	7,370.10	361.21	4,564.53	3,297.87	7,862.40	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.95	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	37.82	1,117.04	251.14	794.49	611.51	1,406.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.93	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	207.88	0.42	3.74	2.29	209.75	212.04	
W0236	Concrete Curing (plain concrete)	m3	0.93	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	5.95	0.73	1.71	1.34	7.05	8.39	
W0243	Formwork (lean concrete)	m2	7.40	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	471.52	651.80	8.88	43.02	1,089.18	1,132.20	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	74.12	296.47	203.82	166.77	370.59	1.0%
	Total									12,969.36	22,488.36	1,971.75	9,613.23	27,816.25	37,429.48	
	Components (%)									34.7%	60.1%	5.3%	25.7%	74.3%	100.0%	
	Unit Rate	each								1,295.91	2,247.07	197.02	960.57	2,779.43	3,740.00	

Miscellaneous covers the cost for cart, minor tools, etc.

611(4)a Planter Square Type A (1.13mx1.13m) for Road Side Plantation

Unit: 1.00 each

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		
W0109	Excavation, Manpower	m3	1.28	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	171.52	0.00	0.00	0.00	171.52	171.52	
W0115	Disposal of Surplus Soil (manpower loading)	m3	1.28	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	61.40	14.28	57.44	40.44	92.68	133.12	
W0951	Precast Curbstone for Planter Square, Furnish	m	3.69	13.3%	68.6%	18.1%	49.8%	50.2%	46.80	22.92	118.52	31.25	86.05	86.64	172.69	
W0952	Precast Curbstone for Planter Square, Laying	m	3.69	96.2%	3.1%	0.8%	1.9%	98.1%	35.00	124.18	3.97	0.99	2.48	126.67	129.15	
W0161	Gravel Foundation Fill	m3	0.06	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	5.93	3.10	14.67	9.22	14.48	23.70	
W0956	Treading Prevention Board for Planter Square, Furnish	m2	0.99	13.7%	71.5%	14.7%	51.7%	48.3%	248.00	33.72	175.65	36.15	126.83	118.69	245.52	
W0957	Treading Prevention Board for Planter Square, Laying	m2	0.99	93.5%	4.6%	2.0%	3.3%	96.7%	32.80	30.35	1.49	0.64	1.06	31.41	32.47	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	21.80	5.45	14.98	12.26	27.25	3%
Total										450.02	338.80	146.59	281.07	654.35	935.42	
Components (%)										48.1%	36.2%	15.7%	30.0%	70.0%	100.0%	
Unit Rate			each							449.83	338.65	146.53	280.94	654.06	935.00	

Miscellaneous covers the cost for joint mortar, minor tools, etc.

611(4)b Planter Square Type B (0.68mx1.70m) for Road Side Plantation

Unit: 1.00 each

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		
W0109	Excavation, Manpower	m3	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	46.90	0.00	0.00	0.00	46.90	46.90	
W0115	Disposal of Surplus Soil (manpower loading)	m3	0.35	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	16.79	3.90	15.71	11.06	25.34	36.40	
W0951	Precast Curbstone for Planter Square, Furnish	m	3.36	13.3%	68.6%	18.1%	49.8%	50.2%	46.80	20.87	107.92	28.46	78.35	78.90	157.25	
W0952	Precast Curbstone for Planter Square, Laying	m	3.36	96.2%	3.1%	0.8%	1.9%	98.1%	35.00	113.08	3.62	0.90	2.26	115.34	117.60	
W0161	Gravel Foundation Fill	m3	0.05	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	4.94	2.58	12.23	7.69	12.06	19.75	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	9.07	2.27	6.24	5.10	11.34	3.0%
Total										202.58	127.09	59.56	105.60	283.64	389.24	
Components (%)										52.0%	32.7%	15.3%	27.1%	72.9%	100.0%	
Unit Rate			each							202.46	127.02	59.52	105.53	283.47	389.00	

Miscellaneous covers the cost for joint mortar, minor tools, etc.

612(1)a ReflectORIZED Thermoplastic Pavement Markings (White)

Unit: 150.00 m2

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		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	943.00	0.00	0.00	0.00	943.00	943.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
W06041	Road marking paint (White, solution type with glass beads 15~18%)	kg	900.00	0.0%	100.0%	0.0%	65.0%	35.0%	62.70	0.00	56,430.00	0.00	36,679.50	19,750.50	56,430.00	
Q1106-015	Line Marker (Solution Type, Hand Guide) 15cm	hr	5.90	0.0%	0.0%	100.0%	60.5%	39.5%	65.40	0.00	0.00	385.86	233.31	152.55	385.86	
Q1007-005	Water Tank, 5m3	day	1.04	0.0%	0.0%	100.0%	61.1%	38.9%	178.00	0.00	0.00	185.12	113.17	71.95	185.12	
RO603-002	Pick-up truck 2.2t	hr	9.80	14.2%	10.8%	75.0%	47.8%	52.2%	590.00	821.04	624.46	4,336.50	2,761.55	3,020.45	5,782.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	2,088.38	522.10	1,435.76	1,174.72	2,610.48	4.0%
Total										3,300.04	59,142.84	5,429.58	41,223.29	26,649.17	67,872.46	
Components (%)										4.9%	87.1%	8.0%	60.7%	39.3%	100.0%	
Unit Rate			m2							21.98	393.86	36.16	274.53	177.47	452.00	

Miscellaneous covers the cost for primer, propane gas, minor tools, etc.

612(1)b ReflectORIZED Thermoplastic Pavement Markings (Yellow)

Unit: 150.00 m2

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		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	943.00	0.00	0.00	0.00	943.00	943.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
M06042	Road marking paint (Yellow, solution type with glass beads 15~18%)	kg	900.00	0.0%	100.0%	0.0%	65.0%	35.0%	64.60	0.00	58,140.00	0.00	37,791.00	20,349.00	58,140.00	
Q1106-015	Line Marker (Solution Type, Hand Guide) 15cm	hr	5.90	0.0%	0.0%	100.0%	60.5%	39.5%	65.40	0.00	0.00	385.86	233.31	152.55	385.86	
Q1007-005	Water Tank, 5m3	day	1.04	0.0%	0.0%	100.0%	61.1%	38.9%	178.00	0.00	0.00	185.12	113.17	71.95	185.12	
R0603-002	Pick-up truck 2.2t	hr	9.80	14.2%	10.8%	75.0%	47.8%	52.2%	590.00	821.04	624.46	4,336.50	2,761.55	3,020.45	5,782.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	2,143.10	535.78	1,473.38	1,205.50	2,678.88	4.0%
Total										3,300.04	60,907.56	5,443.26	42,372.41	27,278.45	69,650.86	
Components (%)										4.7%	87.4%	7.8%	60.8%	39.2%	100.0%	
Unit Rate			m2							21.98	405.75	36.26	282.28	181.72	464.00	

Miscellaneous covers the cost for primer, propane gas, minor tools, etc.

SPL 612(2) Removal of Existing Thermoplastic Pavement Markings

Unit: 10.00 m2

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		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	0.00	640.00	640.00	
	Miscellaneous	LS	1.00	10.0%	40.0%	50.0%	50.0%	50.0%		3.49	13.95	17.44	17.44	17.44	34.88	5.0%
Total										701.09	13.95	17.44	17.44	715.04	732.48	
Components (%)										95.7%	1.9%	2.4%	2.4%	97.6%	100.0%	
Unit Rate			m2							70.06	1.39	1.74	1.74	71.46	73.20	

Miscellaneous covers the costs for minor tools such as cart, picks, chisel, etc.

615(1)a Delineator (ground standing type)

Unit: 10.00 each

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		
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00	352.00	
M07501	Delineator, Type A (ground standing type)	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,450.00	0.00	14,500.00	0.00	8,700.00	5,800.00	14,500.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										352.00	14,500.00	0.00	8,700.00	6,152.00	14,852.00	
Components (%)										2.4%	97.6%	0.0%	58.6%	41.4%	100.0%	
Unit Rate			each							35.31	1,454.69	0.00	872.81	617.19	1,490.00	

615(1)b Delineator (attached on guardrail)

Unit: 10.00 each

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		
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
M07503	Delineator, Type C (on guardrail)	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	564.00	0.00	5,640.00	0.00	3,384.00	2,256.00	5,640.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										128.00	5,640.00	0.00	3,384.00	2,384.00	5,768.00	
Components (%)										2.2%	97.8%	0.0%	58.7%	41.3%	100.0%	
Unit Rate			each							12.80	564.20	0.00	338.52	238.48	577.00	

615(2)a Curve Mirror 1-φ600

Unit: 10.00 each

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			
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80		
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	832.00	0.00	0.00	0.00	832.00	832.00		
W07601	Road Curve Mirror φ600	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	11,000.00	0.00	110,000.00	0.00	66,000.00	44,000.00	110,000.00		
W08706	Steel Gas Pipe, φ80	m	39.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	11,466.00	0.00	6,879.60	4,586.40	11,466.00		
W06003	Zinc Rich Primer for Steel	kg	1.27	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	474.98	0.00	308.74	166.24	474.98		
W06021	Phenol Resin Paint for Steel	kg	1.37	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	372.64	0.00	242.22	130.42	372.64		
W0109	Excavation, Manpower	m3	21.56	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	2,889.04	0.00	0.00	0.00	2,889.04	2,889.04		
W0115	Disposal of Surplus Soil (manpower loading)	m3	2.86	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	137.19	31.91	128.34	90.36	207.08	297.44		
W0135	Backfill, Manpower + Compactor	m3	18.70	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,136.29	80.67	232.30	178.66	1,270.59	1,449.25		
W0161	Gravel Foundation Fill	m3	0.36	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	35.60	18.58	88.02	55.33	86.87	142.20		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.55	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	101.75	3,303.95	674.29	2,316.06	1,763.94	4,080.00	Loss 2.0%	
W0235	Concrete Pouring by Manpower for small structures	m3	2.50	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	558.82	1.12	10.06	6.15	563.85	570.00		
W0236	Concrete Curing (plain concrete)	m3	2.55	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	15.31	1.97	4.59	3.61	18.94	22.55		
W0240	Formwork (plain concrete H4m)	m2	20.00	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	2,654.88	1,789.99	35.14	130.79	4,349.21	4,480.00		
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	618.92	756.46	756.46	618.92	1,375.37	1.0%	
Total										8,822.69	128,160.75	1,929.28	76,968.04	61,944.69	138,912.72		
Components (%)										6.4%	92.3%	1.4%	55.4%	44.6%	100.0%		
Unit Rate			each							882.82	12,824.13	193.05	7,701.64	6,198.36	13,900.00		

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

615(2)b Curve Mirror 2-φ600

Unit: 10.00 each

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			
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60		
L020	Unskilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,184.00	0.00	0.00	0.00	1,184.00	1,184.00		
W07601	Road Curve Mirror φ600	each	20.00	0.0%	100.0%	0.0%	60.0%	40.0%	11,000.00	0.00	220,000.00	0.00	132,000.00	88,000.00	220,000.00		
W08706	Steel Gas Pipe, φ80	m	39.00	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	11,466.00	0.00	6,879.60	4,586.40	11,466.00		
W06003	Zinc Rich Primer for Steel	kg	1.27	0.0%	100.0%	0.0%	65.0%	35.0%	374.00	0.00	474.98	0.00	308.74	166.24	474.98		
W06021	Phenol Resin Paint for Steel	kg	1.37	0.0%	100.0%	0.0%	65.0%	35.0%	272.00	0.00	372.64	0.00	242.22	130.42	372.64		
W0109	Excavation, Manpower	m3	21.56	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	2,889.04	0.00	0.00	0.00	2,889.04	2,889.04		
W0115	Disposal of Surplus Soil (manpower loading)	m3	2.86	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	137.19	31.91	128.34	90.36	207.08	297.44		
W0135	Backfill, Manpower + Compactor	m3	18.70	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	1,136.29	80.67	232.30	178.66	1,270.59	1,449.25		
W0161	Gravel Foundation Fill	m3	0.36	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	35.60	18.58	88.02	55.33	86.87	142.20		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.55	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	101.75	3,303.95	674.29	2,316.06	1,763.94	4,080.00	Loss 2.0%	
W0235	Concrete Pouring by Manpower for small structures	m3	2.50	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	558.82	1.12	10.06	6.15	563.85	570.00		
W0236	Concrete Curing (plain concrete)	m3	2.50	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	15.99	1.97	4.59	3.61	18.94	22.55		
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	1,096.12	1,339.70	1,339.70	1,096.12	2,435.82	1.0%	
Total										6,692.29	236,847.93	2,477.30	143,420.42	102,597.09	246,017.52		
Components (%)										2.7%	96.3%	1.0%	58.3%	41.7%	100.0%		
Unit Rate			each							669.18	23,683.11	247.71	14,341.02	10,259.98	24,600.00		

Miscellaneous covers the cost for fixtures, brushes, minor tools, etc.

615(3) Dustproof Concrete Paving for Median

Unit: 100.00 m2

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			
W0128	Selected Sand, transported	m3	5.50	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	118.85	184.80	620.35	402.64	521.36	924.00	Loss 10.0%	
W0135	Backfill, Manpower + Compactor	m3	5.00	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	303.82	21.57	62.11	47.77	339.73	387.50		
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	7.14	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	291.00	7,520.87	1,969.93	5,493.55	4,288.25	9,781.80	Loss 2.0%	
W0235	Concrete Pouring by Manpower for small structures	m3	7.00	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,564.71	3.13	28.16	17.21	1,578.79	1,596.00		
W0236	Concrete Curing (plain concrete)	m3	7.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	44.78	5.51	12.85	10.10	53.04	63.14		
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	55.0%	45.0%		0.00	178.53	76.51	140.28	114.77	255.05	2.0%	
Total										2,323.16	7,914.41	2,769.92	6,111.55	6,895.94	13,007.49		
Components (%)										17.9%	60.8%	21.3%	47.0%	53.0%	100.0%		
Unit Rate			m2							23.22	79.10	27.68	61.08	68.92	130.00		

Miscellaneous covers the cost for forms, joints, etc.

Sand base thickness = 0.050 m
Concrete pavement thickness = 0.070 m

SPL 620(1)a Traffic Signal Pole Type A (Mast Arm Post H=6.7m)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Local		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0105	Excavation, Backhoe 0.61m ³	m ³	5.29	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	9.74	18.17	188.45	114.41	101.95	216.36	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	1.73	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	13.28	23.77	124.01	82.81	78.25	161.06	
W0133	Backfill C	m ³	3.56	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	60.01	60.97	395.23	254.56	261.64	516.20	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	1.76	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	70.23	2,280.37	465.39	1,598.54	1,217.46	2,816.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.73	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	70.39	0.88	375.08	201.01	245.33	446.34	
W0237	Concrete Curing (reinforced concrete)	m ³	1.73	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.54	0.56	1.32	1.04	6.38	7.42	
W0241	Formwork (reinforced concrete 11<4m)	m ²	5.76	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	780.36	516.91	10.26	37.90	1,269.62	1,307.52	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	144.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	520.46	2,592.91	263.25	1,818.33	1,558.29	3,376.62	
L002	Foreman	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	132.48	0.00	0.00	0.00	132.48	132.48	
L019	Skilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	102.50	0.00	0.00	0.00	102.50	102.50	
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	134.40	0.00	0.00	0.00	134.40	134.40	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	1.00	6.9%	69.4%	23.7%	59.7%	40.3%	22,100.00	1,513.94	15,340.42	5,245.65	13,194.57	8,905.43	22,100.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.97	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	72.64	70.93	711.00	431.88	422.69	854.57	
W1001	Underground Cable Duct	m	20.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	964.73	4,933.12	1,382.15	3,422.30	3,857.70	7,280.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	473.42	315.61	433.97	355.06	789.03	2.0%
Total										4,450.69	26,312.42	9,477.38	21,591.30	18,649.20	40,240.50	
Components (%)										11.1%	65.4%	23.6%	53.7%	46.3%	100.0%	
Unit Rate			each							4,446.21	26,285.94	9,467.84	21,569.57	18,630.43	40,200.00	

Miscellaneous covers the cost for fixtures, embedment, minor tools, etc.

SPL 620(1)b Traffic Signal Pole Type A (Mast Arm Post H=6.0m)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Component (PP)		Local		
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign			
W0105	Excavation, Backhoe 0.61m ³	m ³	5.29	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	9.74	18.17	188.45	114.41	101.95	216.36	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	1.73	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	13.28	23.77	124.01	82.81	78.25	161.06	
W0133	Backfill C	m ³	3.56	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	60.01	60.97	395.23	254.56	261.64	516.20	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	2.07	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	82.60	2,682.03	547.37	1,880.10	1,431.90	3,312.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	2.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	82.59	1.03	440.12	235.86	287.88	523.74	
W0237	Concrete Curing (reinforced concrete)	m ³	2.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.50	0.66	1.55	1.22	7.49	8.71	
W0241	Formwork (reinforced concrete 11<4m)	m ²	7.46	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,010.67	669.47	13.28	49.08	1,644.34	1,693.42	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	224.40	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	809.36	4,032.22	409.38	2,827.67	2,423.29	5,250.96	
L002	Foreman	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	132.48	0.00	0.00	0.00	132.48	132.48	
L019	Skilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	102.50	0.00	0.00	0.00	102.50	102.50	
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	134.40	0.00	0.00	0.00	134.40	134.40	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	1.00	7.2%	68.6%	24.2%	59.4%	40.6%	21,100.00	1,509.79	14,475.92	5,114.29	12,530.22	8,569.78	21,100.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.97	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	72.64	70.93	711.00	431.88	422.69	854.57	
W1001	Underground Cable Duct	m	20.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	964.73	4,933.12	1,382.15	3,422.30	3,857.70	7,280.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	495.44	330.29	454.15	371.58	825.73	2.0%
Total										4,991.30	27,463.72	9,657.10	22,284.26	19,827.87	42,112.13	
Components (%)										11.9%	65.2%	22.9%	52.9%	47.1%	100.0%	
Unit Rate			each							4,989.86	27,455.81	9,654.32	22,277.84	19,822.16	42,100.00	

Miscellaneous covers the cost for fixtures, embedment, minor tools, etc.

SPL 620(1)c Traffic Signal Pole Type B (φ114.3mm x 4.2m)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Local			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign				
W0105	Excavation, Backhoe 0.61m3	m3	3.47	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	6.39	11.92	123.61	75.05	66.87	141.92		
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.70	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	5.37	9.62	50.18	33.51	31.66	65.17		
W0133	Backfill C	m3	2.77	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	46.69	47.44	307.52	198.07	203.58	401.65		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.71	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	28.33	919.92	187.74	644.86	491.14	1,136.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.70	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.48	0.35	151.77	81.33	99.27	180.60		
W0237	Concrete Curing (reinforced concrete)	m3	0.70	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.24	0.53	0.42	2.58	3.00			
W0241	Formwork (reinforced concrete H<4m)	m2	3.52	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	476.89	315.89	6.27	23.16	775.88	799.04		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	34.20	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	123.35	614.54	62.39	430.95	369.33	800.28		
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	97.92	0.00	0.00	0.00	97.92	97.92		
L019	Skilled Labor	md	0.19	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	77.90	0.00	0.00	0.00	77.90	77.90		
L020	Unskilled Labor	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	105.60	0.00	0.00	0.00	105.60	105.60		
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	1.00	12.4%	53.0%	34.6%	53.6%	46.4%	9,380.00	1,161.47	4,973.36	3,245.17	5,025.60	4,354.40	9,380.00		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.74	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	55.74	33.45	270.45	168.83	190.81	359.64		
W1001	Underground Cable Duct	m	20.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	964.73	4,933.12	1,382.15	3,422.30	3,857.70	7,280.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	249.94	166.63	229.12	187.46	416.57	2.0%	
	Total									3,181.12	12,109.77	5,954.40	10,333.20	10,912.09	21,245.29		
	Components (%)									15.0%	57.0%	28.0%	48.6%	51.4%	100.0%		
	Unit Rate	each								3,174.33	12,083.96	5,941.71	10,311.17	10,888.83	21,200.00		

Miscellaneous covers the cost for fixtures, embedment, minor tools, etc.

SPL 620(1)d Traffic Signal Pole Type C (φ114.3mm x 3.4m)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)					Labor		Material	Component (PP)		Local			
				Lab.	Mat.	Equip.	For.	Local				Equipment	Foreign				
W0105	Excavation, Backhoe 0.61m3	m3	3.18	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	5.85	10.93	113.28	68.77	61.29	130.06		
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.70	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	5.37	9.62	50.18	33.51	31.66	65.17		
W0133	Backfill C	m3	2.48	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	41.80	42.47	275.33	177.34	182.26	359.60		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.99	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	39.50	1,282.71	261.78	899.18	684.82	1,584.00	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	39.47	0.49	210.30	112.70	137.56	250.26		
W0237	Concrete Curing (reinforced concrete)	m3	0.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.10	0.32	0.74	0.58	3.58	4.16		
W0241	Formwork (reinforced concrete H<4m)	m2	5.13	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	695.01	460.37	9.13	33.75	1,130.76	1,164.51		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	39.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	141.03	702.58	71.33	492.70	422.24	914.94		
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	97.92	0.00	0.00	0.00	97.92	97.92		
L019	Skilled Labor	md	0.19	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	77.90	0.00	0.00	0.00	77.90	77.90		
L020	Unskilled Labor	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	105.60	0.00	0.00	0.00	105.60	105.60		
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	1.00	12.8%	51.8%	35.4%	53.1%	46.9%	9,050.00	1,160.27	4,684.32	3,205.41	4,805.68	4,244.32	9,050.00		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.74	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	55.74	33.45	270.45	168.83	190.81	359.64		
W1001	Underground Cable Duct	m	20.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	964.73	4,933.12	1,382.15	3,422.30	3,857.70	7,280.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	257.33	171.55	235.88	192.99	428.88	2.0%	
	Total									3,433.31	12,417.69	6,021.63	10,451.21	11,421.42	21,872.64		
	Components (%)									15.7%	56.8%	27.5%	47.8%	52.2%	100.0%		
	Unit Rate	each								3,437.61	12,433.23	6,029.16	10,464.29	11,435.71	21,900.00		

Miscellaneous covers the cost for fixtures, embedment, minor tools, etc.

SPL 620(1)e Traffic Signal Pole Type D (φ114.3mm x 3.0m)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0105	Excavation, Backhoe 0.6m ³	m ³	2.03	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	3.74	6.97	72.32	43.91	39.12	83.03	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.29	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	2.23	3.98	20.79	13.88	13.12	27.00	
W0133	Backfill C	m ³	1.74	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	29.33	29.80	193.17	124.42	127.88	252.30	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	0.30	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	11.97	388.70	79.33	272.48	207.52	480.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	0.29	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	11.80	0.15	62.87	33.69	41.13	74.82	
W0237	Concrete Curing (reinforced concrete)	m ³	0.29	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	0.93	0.09	0.22	0.17	1.07	1.24	
W0241	Formwork (reinforced concrete 1K4m)	m ²	1.92	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	260.12	172.30	3.42	12.63	423.21	435.84	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	27.40	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	98.83	492.35	49.99	345.27	295.89	641.16	
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	97.92	0.00	0.00	0.00	97.92	97.92	
L019	Skilled Labor	md	0.19	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	77.90	0.00	0.00	0.00	77.90	77.90	
L020	Unskilled Labor	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	105.60	0.00	0.00	0.00	105.60	105.60	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	1.00	13.0%	51.1%	35.8%	52.9%	47.1%	8,890.00	1,159.92	4,543.51	3,186.57	4,698.79	4,191.21	8,890.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.74	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	55.74	33.45	270.45	168.83	190.81	359.64	
W1001	Underground Cable Duct	m	20.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	964.73	4,933.12	1,382.15	3,422.30	3,857.70	7,280.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	225.68	150.45	206.87	169.26	376.13	2.0%
Total										2,880.76	10,830.10	5,471.72	9,343.24	9,839.33	19,182.58	
Components (%)										15.0%	56.5%	28.5%	48.7%	51.3%	100.0%	
Unit Rate			each							2,883.37	10,839.94	5,476.69	9,351.73	9,848.27	19,200.00	

Miscellaneous covers the cost for fixtures, embedment, minor tools, etc.

SPL 620(2)a Traffic Signal Lamps Type A (6 vehicle lamps)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12	
L012	Electrician	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	64.35	0.00	0.00	0.00	64.35	64.35	
L020	Unskilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	80.00	0.00	0.00	0.00	80.00	80.00	
W07273	Traffic Signal Lights (6 lamps)	set	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	186,000.00	0.00	186,000.00	0.00	102,300.00	83,700.00	186,000.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.80	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	59.91	58.50	586.39	356.19	348.61	704.80	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
	Miscellaneous	LS	1.00	30.0%	30.0%	40.0%	50.0%	50.0%		1,692.35	1,692.35	2,256.47	2,820.59	2,820.59	5,641.18	3.0%
Total										2,043.39	187,784.28	3,852.77	106,083.02	87,597.43	193,680.45	
Components (%)										1.1%	97.0%	2.0%	54.8%	45.2%	100.0%	
Unit Rate			each							2,046.76	188,094.11	3,859.13	106,258.04	87,741.96	194,000.00	

Miscellaneous covers the costs for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(2)b Traffic Signal Lamps Type B (3 vehicle lamps)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12	
L012	Electrician	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	64.35	0.00	0.00	0.00	64.35	64.35	
L020	Unskilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	80.00	0.00	0.00	0.00	80.00	80.00	
W07272	Traffic Signal Lights (3 lamps)	set	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	99,900.00	0.00	99,900.00	0.00	54,945.00	44,955.00	99,900.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.80	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	60.26	36.16	292.38	182.52	206.28	388.80	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
	Miscellaneous	LS	1.00	30.0%	30.0%	40.0%	50.0%	50.0%		914.61	914.61	1,219.48	1,524.35	1,524.35	3,048.70	3.0%
Total										1,266.00	100,884.20	2,521.77	57,258.10	47,413.87	104,671.97	
Components (%)										1.2%	96.4%	2.4%	54.7%	45.3%	100.0%	
Unit Rate			each							1,269.97	101,200.36	2,529.67	57,437.54	47,562.46	105,000.00	

Miscellaneous covers the costs for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(2)c Traffic Signal Lamps Type C (2 pedestrian lamps)

Unit: 1.00 each

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)
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12	
L012	Electrician	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	64.35	0.00	0.00	0.00	64.35	64.35	
L020	Unskilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	80.00	0.00	0.00	0.00	80.00	80.00	
W07271	Pedestrian Signal Lights (2 lamps)	set	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	47,400.00	0.00	47,400.00	0.00	26,070.00	21,330.00	47,400.00	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.80	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	60.26	36.16	292.38	182.52	206.28	388.80	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
	Miscellaneous	LS	1.00	30.0%	30.0%	40.0%	50.0%	50.0%		442.11	442.11	589.48	736.85	736.85	1,473.70	3.0%
	Total									793.50	47,911.70	1,891.77	27,595.60	23,001.37	50,596.97	
	Components (%)									1.6%	94.7%	3.7%	54.5%	45.5%	100.0%	
	Unit Rate	each								793.55	47,914.57	1,891.88	27,597.26	23,002.74	50,600.00	

Miscellaneous covers the costs for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(4)a Street Lighting Poles (single lamp)

Unit: 1.00 each

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)
W0105	Excavation, Backhoe 0.61m3	m3	4.33	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	7.97	14.88	154.25	93.65	83.45	177.10	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.53	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.07	7.28	37.99	25.37	23.97	49.34	
W0135	Backfill, Manpower + Compactor	m3	3.80	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	230.90	16.39	47.20	36.31	258.19	294.50	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	0.70	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	27.93	906.97	185.10	635.78	484.22	1,120.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.69	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.07	0.35	149.60	80.17	97.85	178.02	
W0237	Concrete Curing (reinforced concrete)	m3	0.69	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.21	0.23	0.53	0.41	2.55	2.96	
W0241	Formwork (reinforced concrete H<4m)	m2	4.35	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	589.33	390.37	7.74	28.62	958.83	987.45	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	95.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	344.81	1,717.83	174.40	1,204.66	1,032.38	2,237.04	
L002	Foreman	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	167.04	0.00	0.00	0.00	167.04	167.04	
L012	Electrician	md	0.34	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	145.86	0.00	0.00	0.00	145.86	145.86	
L020	Unskilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	185.60	0.00	0.00	0.00	185.60	185.60	
W13001	Street Lighting Fixture (110~400W)	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	7,920.00	0.00	7,920.00	0.00	4,752.00	3,168.00	7,920.00	
W13011	Street Lighting Stabilizer	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,600.00	0.00	2,600.00	0.00	1,690.00	910.00	2,600.00	
W13021	Street Lighting Lamp	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,320.00	0.00	1,320.00	0.00	792.00	528.00	1,320.00	
W1201	Street Lighting Pole (single lamp), furnished	each	1.00	10.5%	60.5%	29.0%	56.5%	43.5%	16,500.00	1,730.67	9,989.63	4,779.70	9,329.26	7,170.74	16,500.00	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	1.54	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	116.01	69.60	562.83	351.35	397.09	748.44	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
W1001	Underground Cable Duct	m	30.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	1,447.10	7,399.68	2,073.22	5,133.45	5,786.55	10,920.00	
	Miscellaneous	LS	1.00	5.0%	60.0%	35.0%	50.0%	50.0%		70.01	840.14	490.08	700.12	700.12	1,400.23	3.0%
	Total									5,175.25	33,226.77	9,672.56	25,459.37	22,615.21	48,074.58	
	Components (%)									10.8%	69.1%	20.1%	53.0%	47.0%	100.0%	
	Unit Rate	each								5,177.99	33,244.34	9,677.67	25,472.83	22,627.17	48,100.00	

Miscellaneous covers the cost for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(4)b Street Lighting Poles (double lamp)

Unit: 1.00 each

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		
W0105	Excavation, Backhoe 0.61m3	m3	4.33	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	7.97	14.88	154.25	93.65	83.45	177.10	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.53	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.07	7.28	37.99	25.37	23.97	49.34	
W0135	Backfill, Manpower + Compactor	m3	3.80	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	230.90	16.39	47.20	36.31	258.19	294.50	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.70	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	27.93	906.97	185.10	635.78	484.22	1,120.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.69	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.07	0.35	149.60	80.17	97.85	178.02	
W0237	Concrete Curing (reinforced concrete)	m3	0.69	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.21	0.23	0.53	0.41	2.55	2.96	
W0241	Formwork (reinforced concrete 11<4m)	m2	4.35	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	589.33	390.37	7.74	28.62	958.83	987.45	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	95.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	344.81	1,717.83	174.40	1,204.66	1,032.38	2,237.04	
L002	Foreman	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	236.16	0.00	0.00	0.00	236.16	236.16	
L012	Electrician	md	0.49	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	210.21	0.00	0.00	0.00	210.21	210.21	
L020	Unskilled Labor	md	0.83	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	265.60	0.00	0.00	0.00	265.60	265.60	
M13001	Street Lighting Fixture (110~400W)	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	7,920.00	0.00	15,840.00	0.00	9,504.00	6,336.00	15,840.00	
M13011	Street Lighting Stabilizer	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,600.00	0.00	2,600.00	0.00	1,690.00	910.00	2,600.00	
M13021	Street Lighting Lamp	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,320.00	0.00	2,640.00	0.00	1,584.00	1,056.00	2,640.00	
W1202	Street Lighting Pole (double lamp), furnished	each	1.00	10.2%	61.3%	28.5%	56.8%	43.2%	17,100.00	1,747.82	10,478.38	4,873.80	9,717.23	7,382.77	17,100.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.34	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	176.27	105.76	855.20	533.87	603.37	1,137.24	
Q0405-013	Lift Car, 12~13m	hr	1.89	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	154.50	66.51	2,009.19	1,206.09	1,024.11	2,230.20	
W1001	Underground Cable Duct	m	30.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	1,447.10	7,399.68	2,073.22	5,133.45	5,786.55	10,920.00	
	Miscellaneous	LS	1.00	5.0%	60.0%	35.0%	50.0%	50.0%		87.34	1,048.06	611.37	873.39	873.39	1,746.77	3.0%
Total										5,560.31	43,232.69	11,179.60	32,346.98	27,625.61	59,972.59	
Components (%)										9.3%	72.1%	18.6%	53.9%	46.1%	100.0%	
Unit Rate			each							5,562.85	43,252.44	11,184.71	32,361.77	27,638.23	60,000.00	

Miscellaneous covers the cost for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(4)c Bridge Lighting Poles (single lamp)

Unit: 1.00 each

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		
L002	Foreman	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	167.04	0.00	0.00	0.00	167.04	167.04	
L012	Electrician	md	0.34	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	145.86	0.00	0.00	0.00	145.86	145.86	
L020	Unskilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	185.60	0.00	0.00	0.00	185.60	185.60	
M13001	Street Lighting Fixture (110~400W)	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	7,920.00	0.00	7,920.00	0.00	4,752.00	3,168.00	7,920.00	
M13011	Street Lighting Stabilizer	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,600.00	0.00	2,600.00	0.00	1,690.00	910.00	2,600.00	
M13021	Street Lighting Lamp	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,320.00	0.00	2,640.00	0.00	1,920.00	528.00	1,320.00	
W1201	Street Lighting Pole (single lamp), furnished	each	1.00	10.5%	60.5%	29.0%	56.5%	43.5%	16,500.00	1,730.67	9,989.63	4,779.70	9,329.26	7,170.74	16,500.00	
R0402-005	Truck Crane, Hydraulic 2-5t	hr	1.54	18.2%	10.9%	70.9%	45.6%	54.4%	413.00	115.76	69.33	450.94	290.09	345.93	636.02	
Q0405-009	Lift Car, 8~9m	hr	0.95	9.9%	3.9%	86.2%	52.5%	47.5%	827.00	77.42	31.03	677.20	412.11	373.54	785.65	
W1011	Electric Cable Laying	m	30.00	22.1%	75.9%	1.9%	42.6%	57.4%	84.20	559.12	1,918.31	48.58	1,076.93	1,449.07	2,526.00	
	Miscellaneous	LS	1.00	5.0%	60.0%	35.0%	50.0%	50.0%		49.18	590.15	344.25	491.79	491.79	983.59	3.0%
Total										3,030.64	24,438.44	6,300.67	18,834.18	14,935.57	33,769.76	
Components (%)										9.0%	72.4%	18.7%	55.8%	44.2%	100.0%	
Unit Rate			each							3,033.36	24,460.33	6,306.32	18,851.05	14,948.95	33,800.00	

Miscellaneous covers the cost for fixing materials, ancillary devices, cable connection, power reception, testing, etc.

SPL 620(4)d Street Lighting Service Pole with Panel

Unit: 1.00 each

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		
W0105	Excavation, Backhoe 0.61m3	m3	8.82	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	16.23	30.30	314.20	190.75	169.99	360.74	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.59	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.53	8.11	42.29	28.24	26.69	54.93	
W0135	Backfill, Manpower + Compactor	m3	8.23	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	500.09	35.50	102.24	78.63	559.20	637.83	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.17	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	46.69	1,515.93	309.38	1,062.66	809.34	1,872.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.15	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	46.79	0.58	249.33	133.62	163.08	296.70	
W0237	Concrete Curing (reinforced concrete)	m3	1.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.68	0.38	0.88	0.69	4.24	4.93	
W0241	Formwork (reinforced concrete 114m)	m2	10.92	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,479.43	979.97	19.44	71.84	2,407.00	2,478.84	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	75.80	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	273.39	1,362.04	138.28	955.16	818.56	1,773.72	
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12	
L012	Electrician	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	64.35	0.00	0.00	0.00	64.35	64.35	
L020	Unskilled Labor	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	80.00	0.00	0.00	0.00	80.00	80.00	
M13061	Lighting Panel for Street Lights	each	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	20,300.00	0.00	20,300.00	0.00	11,165.00	9,135.00	20,300.00	
M13160	Electric Service Meter	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,610.00	0.00	3,610.00	0.00	2,346.50	1,263.50	3,610.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.80	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	60.26	36.16	292.38	182.52	206.28	388.80	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
M13051	Electric Cable	m	60.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	3,738.00	0.00	2,055.90	1,682.10	3,738.00	
W1001	Underground Cable Duct	m	30.00	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	1,447.10	7,399.68	2,073.22	5,133.45	5,786.55	10,920.00	
	Miscellaneous	LS	1.00	5.0%	50.0%	45.0%	50.0%	50.0%		71.66	716.56	644.91	716.56	716.56	1,433.13	3.0%
	Total									4,240.98	39,766.65	5,196.46	24,727.76	24,474.29	49,204.09	
	Components (%)									8.6%	80.8%	10.6%	50.3%	49.7%	100.0%	
	Unit Rate	each								4,240.63	39,763.34	5,196.03	24,725.71	24,474.29	49,200.00	

Miscellaneous covers the cost for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(4)e Fluorescent Lighting for Underpass Culvert

Unit: 10.00 each

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		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L012	Electrician	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	343.20	0.00	0.00	0.00	343.20	343.20	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	10.00	0.0%	100.0%	0.0%	60.0%	40.0%	496.00	0.00	4,960.00	0.00	2,976.00	1,984.00	4,960.00	
M13151	One-way Wall Switch	each	2.00	0.0%	100.0%	0.0%	55.0%	45.0%	30.50	0.00	61.00	0.00	33.55	27.45	61.00	
M13051	Electric Cable	m	54.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	3,364.20	0.00	1,850.31	1,513.89	3,364.20	
	Miscellaneous	LS	1.00	8.0%	45.0%	47.0%	40.0%	60.0%		28.42	159.88	166.98	142.11	213.17	355.28	4.0%
	Total									525.22	8,545.08	166.98	5,001.97	4,235.31	9,237.28	
	Components (%)									8.7%	92.5%	1.8%	54.1%	45.9%	100.0%	
	Unit Rate	each								52.54	854.76	16.70	500.34	423.66	924.00	

Miscellaneous covers the cost for minor tolls, ancillary devices, power reception, testing, etc.

SPL 620(5)a Relocation of Street Lighting Poles (Single Lamp)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.69	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	171.02	90.22	357.00	251.79	366.45	618.24	
W0025	Disposal of Demolished Debris	m3	0.69	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	15.69	12.26	67.27	44.52	50.70	95.22	
W0105	Excavation, Backhoe 0.61m3	m3	4.33	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	7.97	14.88	154.25	93.65	83.45	177.10	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.53	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.07	7.28	37.99	25.37	23.97	49.34	
W0135	Backfill, Manpower + Compactor	m3	3.80	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	230.90	16.39	47.20	36.31	258.19	294.50	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.70	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	27.93	906.97	185.10	635.78	484.22	1,120.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.69	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.07	0.35	149.60	80.17	97.85	178.02	
W0237	Concrete Curing (reinforced concrete)	m3	0.69	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.21	0.23	0.53	0.41	2.55	2.96	
W0241	Formwork (reinforced concrete H<4m)	m2	4.35	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	589.33	390.37	7.74	28.62	958.83	987.45	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	95.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	344.81	1,717.83	174.40	1,204.66	1,032.38	2,237.04	
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	218.88	0.00	0.00	0.00	218.88	218.88	
L012	Electrician	md	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	188.76	0.00	0.00	0.00	188.76	188.76	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.91	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	143.88	86.33	698.05	435.76	492.50	928.26	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
M13051	Electric Cable	m	30.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	1,869.00	0.00	1,027.95	841.05	1,869.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		61.95	278.80	278.80	309.77	309.77	619.55	6.0%
	Total									2,353.14	5,424.32	3,167.85	4,780.99	6,164.32	10,945.32	
	Components (%)									21.5%	49.6%	28.9%	43.7%	56.3%	100.0%	
	Unit Rate	each								2,343.40	5,401.86	3,154.74	4,761.20	6,138.80	10,900.00	

Miscellaneous covers the cost for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(5)b Relocation of Street Lighting Poles (Dual Lamp)

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.69	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	171.02	90.22	357.00	251.79	366.45	618.24	
W0025	Disposal of Demolished Debris	m3	0.69	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	15.69	12.26	67.27	44.52	50.70	95.22	
W0105	Excavation, Backhoe 0.61m3	m3	4.33	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	7.97	14.88	154.25	93.65	83.45	177.10	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.53	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.07	7.28	37.99	25.37	23.97	49.34	
W0135	Backfill, Manpower + Compactor	m3	3.80	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	230.90	16.39	47.20	36.31	258.19	294.50	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.70	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	27.93	906.97	185.10	635.78	484.22	1,120.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.69	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	28.07	0.35	149.60	80.17	97.85	178.02	
W0237	Concrete Curing (reinforced concrete)	m3	0.69	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.21	0.23	0.53	0.41	2.55	2.96	
W0241	Formwork (reinforced concrete H<4m)	m2	4.35	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	589.33	390.37	7.74	28.62	958.83	987.45	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	95.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	344.81	1,717.83	174.40	1,204.66	1,032.38	2,237.04	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L012	Electrician	md	0.59	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	253.11	0.00	0.00	0.00	253.11	253.11	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.91	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	143.88	86.33	698.05	435.76	492.50	928.26	
Q0405-013	Lift Car, 12~13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	
M13051	Electric Cable	m	30.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	1,869.00	0.00	1,027.95	841.05	1,869.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		63.24	284.56	284.56	316.18	316.18	632.35	6.0%
	Total									2,567.89	5,430.08	3,173.62	4,787.40	6,384.20	11,171.59	
	Components (%)									23.0%	48.6%	28.4%	42.9%	57.1%	100.0%	
	Unit Rate	each								2,574.42	5,443.89	3,181.69	4,799.57	6,400.43	11,200.00	

Miscellaneous covers the cost for ancillary devices, cable connection, power reception, testing, etc.

SPL 620(6) Toll Gate Facilities

Unit: 1.00 L.S.

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		
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	978.10	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	226,625.77	1,618,755.50	1,392,129.73	1,780,631.05	1,456,879.95	3,237,511.00	
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	657.00	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	77,263.20	283,298.40	283,298.40	289,737.00	354,123.00	643,860.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	494.60	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	344,241.60	1,721,208.00	1,376,966.40	1,721,208.00	1,721,208.00	3,442,416.00	
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	46.38	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	26,248.25	141,740.55	94,493.70	131,241.25	131,241.25	262,482.50	
W3405	Mini Building with fixtures	m2	33.25	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	17,356.50	93,725.10	62,483.40	86,782.50	86,782.50	173,565.00	
W3406	Water Tank System (deep well with elevated tank)	L.S.	1.00	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	34,200.00	205,200.00	140,600.00	209,000.00	171,000.00	380,000.00	
W3407	Toll Operation Equipment	L.S.	1.00	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	4,704,000.00	58,800,000.00	14,896,000.00	62,720,000.00	15,680,000.00	78,400,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,429,935.32	62,863,927.55	18,245,971.63	66,938,599.80	19,601,234.70	86,539,834.50	
Components (%)										6.3%	72.6%	21.1%	77.4%	22.6%	100.0%	
Unit Rate			L.S.							5,427,435.91	62,834,991.13	18,237,572.96	66,907,787.80	19,592,212.20	86,500,000.00	

Part K Mobilization and Demobilization

SPL 800 Mobilization and Demobilization

Unit: 1.00 L.S.

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		
W2001	Heavy Equipment Assembly & Disassembly	LS	1.00	25.2%	8.0%	66.8%	41.3%	58.7%	74,300.00	18,726.43	5,917.65	49,655.91	30,722.42	43,577.58	74,300.00	
W2002	Transportation of Disassembled Equipment	LS	1.00	4.2%	9.9%	85.9%	53.1%	46.9%	92,200.00	3,840.16	9,165.47	79,194.36	48,995.08	43,204.92	92,200.00	
W2003	Other Equipment & Material Haulage	LS	1.00	9.1%	15.3%	75.6%	50.9%	49.1%	70,600.00	6,421.97	10,823.81	53,354.22	35,970.28	34,629.72	70,600.00	
W2004	Establishment of Temporary Site Office & Yard	LS	1.00	10.0%	50.0%	40.0%	45.0%	55.0%	920,000.00	92,000.00	460,000.00	368,000.00	414,000.00	506,000.00	920,000.00	
	Miscellaneous	LS	1.00	10.0%	48.0%	42.0%	50.0%	50.0%		34,713.00	166,622.40	145,794.60	173,565.00	173,565.00	347,130.00	30.0%
Total										155,701.57	652,529.34	695,999.09	703,252.78	800,977.22	1,504,230.00	
Components (%)										10.4%	43.4%	46.3%	46.8%	53.2%	100.0%	
Unit Rate			L.S.							155,263.73	650,694.38	694,041.90	701,275.18	798,724.82	1,500,000.00	

Miscellaneous covers the cost for maintenance works, common temporary works, etc.

Part X Provisional Sum

SPL 900(1) Provisional Sum for Traffic Management during Construction

Unit: 1.00 L.S.

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		
L002	Foreman	md	45.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	25,920.00	0.00	0.00	0.00	25,920.00	25,920.00	
L020	Unskilled Labor	md	1,200.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384,000.00	0.00	0.00	0.00	384,000.00	384,000.00	
R0603-002	Pick-up truck 2.2t	hr	670.50	14.2%	10.8%	75.0%	47.8%	52.2%	590.00	56,174.49	42,724.26	296,696.25	188,940.60	206,654.40	395,595.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	50.0%	50.0%		0.00	7,249.64	8,860.67	8,055.15	8,055.15	16,110.30	2.0%
Total										466,094.49	49,973.90	305,556.92	196,995.75	624,629.55	821,625.30	
Components (%)										56.7%	6.1%	37.2%	24.0%	76.0%	100.0%	
Unit Rate			L.S.							466,307.05	49,996.69	305,696.26	197,085.59	624,914.41	822,000.00	

Miscellaneous covers the costs for traffic cones, barriers, signs, minor tools, etc.

Number of locations = 10
Average Period per location = 30 days

SPL 900(2) Provisional Sum for Relocation of Existing Utilities

Unit: 1.00 L.S.

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		
W3501	Relocation of Existing Lighting Poles	each	8.00	27.3%	22.5%	50.2%	38.8%	61.2%	6,710.00	14,658.37	12,073.05	26,948.58	20,833.68	32,846.32	53,680.00	
W3502	Relocation of Underground Conduit	m	389.00	18.3%	24.6%	57.1%	44.6%	55.4%	445.00	31,662.37	42,558.22	98,884.41	77,215.96	95,889.04	173,105.00	
W3503	Relocation of Watermain	m	78.00	5.2%	77.0%	17.8%	55.7%	44.3%	1,470.00	6,006.05	88,273.16	20,380.79	63,871.80	50,788.20	114,660.00	
W3504	Relocation of Sewer Pipe	m	156.00	16.4%	46.8%	36.8%	48.1%	51.9%	3,320.00	84,946.77	242,587.33	190,385.90	248,886.25	269,033.75	517,920.00	
	Miscellaneous	LS	1.00	30.0%	40.0%	30.0%	50.0%	50.0%		25,780.95	34,374.60	25,780.95	42,968.25	42,968.25	85,936.50	10.0%
Total										163,054.51	419,866.36	362,380.63	453,775.94	491,525.56	945,301.50	
Components (%)										17.2%	44.4%	38.3%	48.0%	52.0%	100.0%	
Unit Rate			L.S.							163,002.51	419,732.45	362,265.05	453,631.21	491,368.79	945,000.00	

Miscellaneous covers the costs for compensation, extra works, etc.

SPL 900(3) Provisional Sum for Geotechnical Investigation

Unit: 1.00 L.S.

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		
W4001	Soil Investigation Boring	m	125.00	18.0%	8.0%	74.0%	50.0%	50.0%	2,950.00	66,375.00	29,500.00	272,875.00	184,375.00	184,375.00	368,750.00	
W4002	Soil Investigation Standard Penetration Test	each	125.00	25.0%	5.0%	70.0%	50.0%	50.0%	1,630.00	50,937.50	10,187.50	142,625.00	101,875.00	101,875.00	203,750.00	
W4003	Soil Investigation Laboratory Test	set	25.00	30.0%	15.0%	55.0%	50.0%	50.0%	18,900.00	141,750.00	70,875.00	259,875.00	236,250.00	236,250.00	472,500.00	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	30.0%	70.0%		20,900.00	20,900.00	167,200.00	62,700.00	146,300.00	209,000.00	20.0%
	Total									279,962.50	131,462.50	842,575.00	585,200.00	668,800.00	1,254,000.00	
	Components (%)									22.3%	10.5%	67.2%	46.7%	53.3%	100.0%	
	Unit Rate	L.S.								279,069.48	131,043.16	839,887.36	583,333.33	666,666.67	1,250,000.00	

Miscellaneous covers the cost for mobilization, falseworks, reporting, overhead for the sub contractor, etc.

SPL 900(4) Provisional Sum for Maintenance and Repair of Existing Access Road

Unit: 1.00 L.S.

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		
W3511	Repair & Maintenance of Existing Access Road	m2	6,600.00	21.0%	16.4%	62.6%	41.1%	58.9%	76.10	105,632.83	82,316.78	314,310.39	206,554.10	295,705.90	502,260.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									105,632.83	82,316.78	314,310.39	206,554.10	295,705.90	502,260.00	
	Components (%)									21.0%	16.4%	62.6%	41.1%	58.9%	100.0%	
	Unit Rate	L.S.								105,578.15	82,274.17	314,147.68	206,447.17	295,552.83	502,000.00	

SPL 900(5) Provisional Sum for Environmental Compliance Requirements

Unit: 1.00 L.S.

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		
W4101	Environmental Compliance	km	7.78	50.2%	49.0%	0.8%	0.8%	99.2%	99,500.00	388,479.09	379,559.46	6,071.45	6,071.45	768,038.55	774,110.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									388,479.09	379,559.46	6,071.45	6,071.45	768,038.55	774,110.00	
	Components (%)									50.2%	49.0%	0.8%	0.8%	99.2%	100.0%	
	Unit Rate	L.S.								388,423.89	379,505.53	6,070.59	6,070.59	767,929.41	774,000.00	

SPL 900(6) Provisional Sum for Health and Safety Requirements

Unit: 1.00 L.S.

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		
W4111	Health and Safety Requirements	day	840.00	10.0%	55.0%	35.0%	40.0%	60.0%	686.00	57,624.00	316,932.00	201,684.00	230,496.00	345,744.00	576,240.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									57,624.00	316,932.00	201,684.00	230,496.00	345,744.00	576,240.00	
	Components (%)									10.0%	55.0%	35.0%	40.0%	60.0%	100.0%	
	Unit Rate	L.S.								57,600.00	316,800.00	201,600.00	230,400.00	345,600.00	576,000.00	

SPL 900(7) Provisional Sum for Overseas Development Assistance (ODA) Recognition Plate

Unit: 1.00 L.S.

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		
W4121	Overseas Development Assistance (ODA) Recognition Plate	each	2.00	1.8%	96.1%	2.1%	63.1%	36.9%	93,600.00	3,339.66	179,952.45	3,907.88	118,054.32	69,145.68	187,200.00	
	Miscellaneous	LS	1.00	30.0%	40.0%	30.0%	50.0%	50.0%		1,123.20	1,497.60	1,123.20	1,872.00	1,872.00	3,744.00	2.0%
	Total									4,462.86	181,450.05	5,031.08	119,926.32	71,017.68	190,944.00	
	Components (%)									2.3%	95.0%	2.6%	62.8%	37.2%	100.0%	
	Unit Rate	L.S.								4,464.17	181,503.27	5,032.56	119,961.49	71,038.51	191,000.00	

Miscellaneous covers the costs for maintenance, etc.

SPL 900(8) Provisional Sum for Contingency

Unit: 1.00 L.S.

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		
W4201	Contingency	L.S.	1.00	15.0%	45.0%	40.0%	50.0%	50.0%	1,600,000.00	240,000.00	720,000.00	640,000.00	800,000.00	800,000.00	1,600,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									240,000.00	720,000.00	640,000.00	800,000.00	800,000.00	1,600,000.00	
	Components (%)									15.0%	45.0%	40.0%	50.0%	50.0%	100.0%	
	Unit Rate	L.S.								240,000.00	720,000.00	640,000.00	800,000.00	800,000.00	1,600,000.00	