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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1,800.00	1.5%	8.2%	90.3%	54.4%	45.6%	2.53	68.31	373.43	4,112.26	2,477.48	2,076.52	4,554.00	
W0105	Excavation, Backhoe 0.6im3	m3	181.28	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	326.23	622.81	6,465.31	3,920.61	3,493.74	7,414.35	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	52.77	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	399.72	724.01	3,783.88	2,526.14	2,381.47	4,907.61	
W0132	Backfill B	m3	128.51	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	1,091.51	1,428.48	11,744.62	7,313.52	6,951.09	14,264.61	
W0161	Gravel Foundation Fill	m3	59.98	24.8%	13.1%	62.1%	39.0%	61.0%	390.00	5,806.67	3,057.75	14,527.78	9,119.01	14,273.19	23,392.20	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	16.93	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	629.20	21,886.13	4,064.78	15,123.12	11,456.98	26,580.10	
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	54.00	2.8%	78.4%	18.8%	56.3%	43.7%	1,340.00	2,051.12	56,728.08	13,580.80	40,739.78	31,620.22	72,360.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	70.93	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	2,831.93	35.74	15,361.34	8,232.16	9,996.85	18,229.01	
W0237	Concrete Curing (reinforced concrete)	m3	70.93	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	222.85	22.73	53.04	41.67	256.95	298.62	
W0241	Formwork (reinforced concrete H<4m)	m2	138.16	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	18,347.75	12,357.36	242.73	903.07	30,044.77	30,947.84	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	2,584.50	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	9,145.34	46,371.76	4,701.75	32,515.13	27,703.72	60,218.85	
W3002	150mm Thick Concrete Hollow Block Wall	m2	116.00	12.5%	84.1%	3.0%	36.5%	63.5%	331.00	4,808.10	32,420.08	1,167.82	14,011.30	24,384.70	38,396.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	44.88	13.6%	83.1%	3.4%	37.4%	62.6%	305.00	1,859.54	11,369.40	459.46	5,125.11	8,563.29	13,688.40	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	21.31	7.6%	66.4%	26.0%	60.1%	39.9%	39,600.00	64,263.61	559,953.45	219,658.94	507,260.05	336,615.95	843,876.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	526.19	8.2%	79.6%	12.2%	54.4%	45.6%	160.00	6,897.62	67,021.40	10,271.38	45,784.39	38,406.01	84,190.40	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	150.27	2.5%	92.9%	4.6%	62.1%	37.9%	628.00	2,337.00	87,715.93	4,316.63	58,624.05	35,745.51	94,369.56	
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%	624.00	2,369.17	88,299.31	4,372.96	59,055.05	35,986.39	95,041.44	
W3007	Plain Cement Floor Finish	m2	312.00	7.6%	85.6%	6.9%	54.3%	45.7%	63.20	1,497.48	16,870.12	1,350.79	10,712.45	9,005.95	19,718.40	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	204.00	8.0%	85.1%	6.8%	54.1%	45.9%	63.50	1,042.69	11,026.64	884.67	7,002.76	5,951.24	12,954.00	
W3009	Unglazed Tile Finish (8" x 8")	m2	24.00	1.6%	97.9%	0.5%	60.2%	39.8%	589.00	233.07	13,832.95	69.98	8,514.82	5,621.18	14,136.00	
W3010	Gypsum Board Ceiling	m2	336.00	1.6%	97.9%	0.5%	60.2%	39.8%	351.00	1,944.46	115,407.70	583.84	71,038.71	46,897.29	117,936.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L.S.	1.00	5.2%	90.7%	4.1%	41.3%	58.7%	355,000.00	18,636.48	321,979.49	14,384.02	146,761.79	208,238.21	355,000.00	
W3014	Lighting and Powers	L.S.	1.00	5.0%	93.5%	1.5%	56.6%	43.4%	138,000.00	6,913.31	129,057.28	2,029.41	78,158.91	59,841.09	138,000.00	
W3015	Sewer Water Line	L.S.	1.00	4.4%	94.9%	0.7%	49.8%	50.2%	115,000.00	5,106.03	109,096.94	797.03	57,252.15	57,747.85	115,000.00	
W3016	Septic Tank	each	1.00	14.4%	63.9%	21.7%	44.1%	55.9%	20,600.00	2,961.20	13,160.81	4,477.98	9,094.66	11,505.34	20,600.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	40.00	3.2%	93.3%	3.5%	49.1%	50.9%	1,840.00	2,348.18	68,657.46	2,594.36	36,132.30	37,467.70	73,600.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	130.00	5.4%	92.8%	1.7%	14.7%	85.3%	127.00	895.76	15,325.71	288.52	2,418.94	14,091.06	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									165,034.34	1,804,802.96	400,346.10	1,247,959.14	1,122,224.25	2,370,183.39	
	Components (%)									7.0%	76.1%	16.9%	52.7%	47.3%	100.0%	
	Unit Rate	L.S.								165,021.57	1,804,663.31	400,315.12	1,247,862.58	1,122,137.42	2,370,000.00	

A(1)b Maintenance of Field Office/Laboratory Bldg. and Living Quarter — Unit: 1.00 month

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	122.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	38,465.00	0.00	0.00	0.00	38,465.00	38,465.00	
L020	Unskilled Labor	md	50.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	15,700.00	0.00	0.00	0.00	15,700.00	15,700.00	
L019	Skilled Labor	md	25.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	10,075.00	0.00	0.00	0.00	10,075.00	10,075.00	
L020	Unskilled Labor	md	25.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	7,850.00	0.00	0.00	0.00	7,850.00	7,850.00	
M01009	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	
M01010	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	
M01020	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	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	1.00	0.0%	85.9%	14.1%	34.4%	65.6%	1,010.00	0.00	867.95	142.05	347.41	662.59	1,010.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									72,090.00	11,806.95	142.05	5,287.31	78,751.69	84,039.00	
	Components (%)									85.8%	14.0%	0.2%	6.3%	93.7%	100.0%	
	Unit Rate	month								72,056.55	11,801.47	141.98	5,284.86	78,715.14	84,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
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: 36.00 month

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
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	36.00	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	1,715.29	572,336.47	9,148.24	207,539.96	375,660.04	583,200.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,757.35	586,370.10	9,372.55	214,815.27	382,684.73	597,500.00	
	Components (%)									0.3%	98.1%	1.6%	36.0%	64.0%	100.0%	
	Unit Rate	month								48.82	16,290.78	260.39	5,968.09	10,631.91	16,600.00	

A(1)f Provide/Operate/Maintain Communication Equipment — Unit: 36.00 month

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
	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%	421.00	421.00	0.00	0.00	0.00	421.00	421.00	
M01015	Telecommunication Fare	min	108,000.00	0.0%	100.0%	0.0%	45.0%	55.0%	1.00	0.00	108,000.00	0.00	48,600.00	59,400.00	108,000.00	
	Miscellaneous	LS	1.00	5.0%	55.0%	40.0%	55.0%	45.0%		88.71	975.82	709.68	975.82	798.39	1,774.21	1.0%
	Total									509.71	177,975.82	709.68	104,775.82	74,419.39	179,195.21	
	Components (%)									0.3%	99.3%	0.4%	58.5%	41.5%	100.0%	
	Unit Rate	month								14.17	4,946.11	19.72	2,911.82	2,068.18	4,980.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	
L004	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	368.00	12,651.84	0.00	0.00	0.00	12,651.84	12,651.84	
M01006	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%		70.78	389.27	247.72	389.27	318.50	707.77	1.0%
	Total									12,722.62	5,714.27	53,047.72	48,730.52	22,754.09	71,484.61	
	Components (%)									17.8%	8.0%	74.2%	68.2%	31.8%	100.0%	
	Unit Rate	veh-m								12,725.36	5,715.50	53,059.14	48,741.01	22,758.99	71,500.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	
L004	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	368.00	12,651.84	0.00	0.00	0.00	12,651.84	12,651.84	
M01006	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%		85.78	471.77	300.22	471.77	386.00	857.77	1.0%
	Total									12,737.62	5,796.77	68,100.22	61,563.02	25,071.59	86,634.61	
	Components (%)									14.7%	6.7%	78.6%	71.1%	28.9%	100.0%	
	Unit Rate	veh-m								12,732.53	5,794.46	68,073.01	61,538.43	25,061.57	86,600.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	
L004	Driver	md	34.38	100.0%	0.0%	0.0%	0.0%	100.0%	368.00	12,651.84	0.00	0.00	0.00	12,651.84	12,651.84	
M01006	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%		49.53	272.40	173.34	272.40	222.87	495.27	1.0%
	Total									12,701.37	5,597.40	31,723.34	30,551.15	19,470.96	50,022.11	
	Components (%)									25.4%	11.2%	63.4%	61.1%	38.9%	100.0%	
	Unit Rate	veh-m								12,695.75	5,594.92	31,709.32	30,537.64	19,462.36	50,000.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	0.5%
	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
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	503.12	55.90	307.46	251.56	559.03	5.0%
	Total									403.00	11,280.66	55.90	2,956.77	8,782.80	11,739.57	
	Components (%)									3.4%	96.1%	0.5%	25.2%	74.8%	100.0%	
	Unit Rate	each								4.02	112.43	0.56	29.47	87.53	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0001	Grass Cutting	m2	10,000.00	90.9%	0.9%	8.2%	4.5%	95.5%	1.09	9,909.09	99.09	891.82	495.45	10,404.55	10,900.00	
W0002	Tree Cutting	m2	1,000.00	92.6%	0.7%	6.7%	3.7%	96.3%	0.91	845.37	6.76	60.87	33.81	879.19	913.00	
W0003	Grubbing	m2	1,000.00	4.0%	7.9%	88.1%	53.0%	47.0%	24.90	996.74	1,975.41	21,927.85	13,208.68	11,691.32	24,900.00	
W0004	Burning	m2	1,000.00	100.0%	0.0%	0.0%	0.0%	100.0%	1.90	1,900.00	0.00	0.00	0.00	1,900.00	1,900.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									13,651.20	2,081.26	22,880.53	13,737.95	24,875.05	38,613.00	
	Components (%)									35.4%	5.4%	59.3%	35.6%	64.4%	100.0%	
	Unit Rate	ha								13,646.61	2,080.56	22,872.83	13,733.33	24,866.67	38,600.00	

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

Unit: 30.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.88	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	498.08	0.00	0.00	0.00	498.08	498.08	
L019	Skilled Labor	md	1.65	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	664.95	0.00	0.00	0.00	664.95	664.95	
L020	Unskilled Labor	md	3.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,023.64	0.00	0.00	0.00	1,023.64	1,023.64	
L020	Unskilled Labor	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	257.48	0.00	0.00	0.00	257.48	257.48	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	19.55	175.98	107.54	87.99	195.53	8.0%
	Total									2,444.15	19.55	175.98	107.54	2,532.14	2,639.68	
	Components (%)									92.6%	0.7%	6.7%	4.1%	95.9%	100.0%	
	Unit Rate	each								81.48	0.65	5.87	3.59	84.41	88.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.01	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	571.66	0.00	0.00	0.00	571.66	571.66	
L019	Skilled Labor	md	2.13	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	858.39	0.00	0.00	0.00	858.39	858.39	
L020	Unskilled Labor	md	3.53	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,108.42	0.00	0.00	0.00	1,108.42	1,108.42	
L020	Unskilled Labor	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	257.48	0.00	0.00	0.00	257.48	257.48	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	22.37	201.31	123.02	100.65	223.68	8.0%
	Total									2,795.95	22.37	201.31	123.02	2,896.60	3,019.63	
	Components (%)									92.6%	0.7%	6.7%	4.1%	95.9%	100.0%	
	Unit Rate	each								112.04	0.90	8.07	4.93	116.07	121.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0011	*Demolition by Crawler Drill (Lightly Reinforced Structures)*	m3	26.0	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	1,886.26	1,030.21	13,307.53	7,895.58	8,328.42	16,224.00	
W0025	Disposal of Demolished Debris	m3	26.0	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	578.75	459.14	2,524.11	1,669.76	1,892.24	3,562.00	
	Miscellaneous	LS	1.0	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	296.79	1,681.81	1,088.23	890.37	1,978.60	10.0%
	Total									2,465.01	1,786.14	17,513.45	10,653.57	11,111.03	21,764.60	
	Components (%)									11.3%	8.2%	80.5%	48.9%	51.1%	100.0%	
	Unit Rate	L.S.								2,469.02	1,789.04	17,541.94	10,670.90	11,129.10	21,800.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	44.80	12.5%	7.5%	80.0%	48.2%	51.8%	1,280.00	7,173.19	4,316.52	45,854.29	27,627.18	29,716.82	57,344.00	
W0025	Disposal of Demolished Debris	m3	44.80	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	997.23	791.14	4,349.24	2,877.13	3,260.47	6,137.60	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	476.11	2,697.97	1,745.74	1,428.34	3,174.08	5.0%
	Total									8,170.42	5,583.77	52,901.50	32,250.05	34,405.63	66,655.68	
	Components (%)									12.3%	8.4%	79.4%	48.4%	51.6%	100.0%	
	Unit Rate	each								8,175.85	5,587.48	52,936.67	32,271.49	34,428.51	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	68.25	12.5%	7.5%	80.0%	48.2%	51.8%	1,280.00	10,927.90	6,575.95	69,856.16	42,088.28	45,271.72	87,360.00	
W0025	Disposal of Demolished Debris	m3	68.25	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	1,519.22	1,205.25	6,625.79	4,383.13	4,967.12	9,350.25	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	725.33	4,110.19	2,659.53	2,175.98	4,835.51	5.0%
	Total									12,447.12	8,506.52	80,592.12	49,130.94	52,414.82	101,545.76	
	Components (%)									12.3%	8.4%	79.4%	48.4%	51.6%	100.0%	
	Unit Rate	each								12,502.80	8,544.57	80,952.63	49,350.71	52,649.29	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0015	Demolition of PCC Pavement by Crawler Drill	m2	10.00	3.4%	6.5%	90.1%	53.2%	46.8%	56.50	19.16	36.57	509.27	300.59	264.41	565.00	
W0025	Disposal of Demolished Debris	m3	2.50	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	55.65	44.15	242.70	160.55	181.95	342.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									74.81	80.72	751.97	461.15	446.35	907.50	
	Components (%)									8.2%	8.9%	82.9%	50.8%	49.2%	100.0%	
	Unit Rate	m2								7.48	8.08	75.24	46.14	44.66	90.80	

101(3)b Removal of Existing Gravel Pavement Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0016	Excavation of Gravel Pavement	m3	2.50	4.4%	8.4%	87.2%	52.9%	47.1%	10.30	1.13	2.16	22.45	13.62	12.13	25.75	
W0025	Disposal of Demolished Debris	m3	2.50	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	55.65	44.15	242.70	160.55	181.95	342.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									56.78	46.31	265.16	174.17	194.08	368.25	
	Components (%)									15.4%	12.6%	72.0%	47.3%	52.7%	100.0%	
	Unit Rate	m2								5.67	4.63	26.50	17.41	19.39	36.80	

101(4)a Removal of Existing Fence (Net Fence with Barbod Wire and Wooden Posts) Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	471.00	0.00	0.00	0.00	471.00	471.00	
W0025	Disposal of Demolished Debris	m3	4.32	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	96.16	76.29	419.39	277.44	314.40	591.84	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	18.46	1.0%
	Total									1,350.16	76.29	419.39	277.44	1,568.40	1,864.30	
	Components (%)									72.4%	4.1%	22.5%	14.9%	84.1%	100.0%	
	Unit Rate	m								13.47	0.76	4.18	2.77	15.65	18.60	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	471.00	0.00	0.00	0.00	471.00	471.00	
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	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	128.22	101.72	559.19	369.92	419.20	789.12	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	4.17	16.67	11.46	9.38	20.84	1.0%
	Total									1,382.22	105.89	616.99	403.71	1,701.38	2,105.09	
	Components (%)									65.7%	5.0%	29.3%	19.2%	80.8%	100.0%	
	Unit Rate	m								13.85	1.06	6.18	4.05	17.05	21.10	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L019	Skilled Labor	md	4.86	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,958.58	0.00	0.00	0.00	1,958.58	1,958.58	
L020	Unskilled Labor	md	3.32	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,042.48	0.00	0.00	0.00	1,042.48	1,042.48	
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	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	601.01	476.89	2,621.19	1,733.98	1,965.02	3,699.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,337.87	476.80	4,174.99	2,577.60	6,412.06	8,989.66	
	Components (%)									48.3%	5.3%	46.4%	28.7%	71.3%	100.0%	
	Unit Rate	m								43.38	4.77	41.75	25.78	64.12	89.90	

101(5)a Removal of Existing Guardrails Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,731.80	0.00	0.00	0.00	2,731.80	2,731.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	2.25	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	135.68	242.86	978.22	688.93	667.82	1,356.75	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	16.35	65.42	44.97	36.80	81.77	2.0%
	Total									2,867.48	259.21	1,043.63	733.90	3,436.42	4,170.32	
	Components (%)									68.8%	6.2%	25.0%	17.6%	82.4%	100.0%	
	Unit Rate	m								28.67	2.59	10.44	7.34	34.36	41.70	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	37.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	11,837.80	0.00	0.00	0.00	11,837.80	11,837.80	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	355.13	236.76	326.54	266.35	591.89	5.0%
	Total									11,837.80	355.13	236.76	326.54	12,104.15	12,429.69	
	Components (%)									95.2%	2.9%	1.9%	2.6%	97.4%	100.0%	
	Unit Rate	m								118.10	3.54	2.36	3.25	120.75	124.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	10.00	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	725.48	396.23	5,118.28	3,036.76	3,203.24	6,240.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	222.60	176.59	970.81	642.22	727.78	1,370.00	
	Miscellaneous	LS	1.00	5.0%	10.0%	85.0%	55.0%	45.0%		3.81	7.81	64.69	41.86	34.25	76.10	1.0%
	Total									951.89	580.44	6,153.78	3,720.83	3,965.27	7,686.10	
	Components (%)									12.4%	7.6%	80.1%	48.4%	51.6%	100.0%	
	Unit Rate	m3								95.24	58.07	615.69	372.27	396.73	769.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0105	Excavation, Backhoe 0.61m3	m3	10.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	18.00	34.36	356.65	216.27	192.73	409.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	222.60	176.59	970.81	642.22	727.78	1,370.00	
	Miscellaneous	LS	1.00	5.0%	10.0%	85.0%	55.0%	45.0%		0.89	1.78	15.12	9.78	8.01	17.79	1.0%
	Total									241.48	212.73	1,342.58	868.27	928.52	1,796.79	
	Components (%)									13.4%	11.8%	74.7%	48.3%	51.7%	100.0%	
	Unit Rate	m3								24.19	21.31	134.50	86.98	93.02	180.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
W0105	Excavation, Backhoe 0.61m3	m3	10.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	18.00	34.36	356.65	216.27	192.73	409.00	
W0025	Disposal of Demolished Debris	m3	10.00	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	222.60	176.59	970.81	642.22	727.78	1,370.00	
	Miscellaneous	LS	1.00	0	0	1	1	0		0.95	1.90	16.19	10.48	8.57	19.05	1.0%
	Total									367.14	212.85	1,343.65	868.97	1,054.68	1,923.65	
	Components (%)									19.1%	11.1%	69.8%	45.2%	54.8%	100.0%	
	Unit Rate	m3								36.64	21.25	134.11	86.73	105.27	192.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	9.00	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	652.94	356.61	4,606.45	2,733.08	2,882.92	5,616.00	
W0025	Disposal of Demolished Debris	m3	9.00	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	200.34	158.93	873.73	577.99	655.01	1,233.00	
W0105	Excavation, Backhoe 0.61m3	m3	525.46	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	945.62	1,805.27	18,740.42	11,364.32	10,126.99	21,491.31	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	278.45	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	2,109.18	3,820.38	19,966.29	13,329.61	12,566.24	25,895.85	
W0132	Backfill B	m3	247.01	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	2,098.00	2,745.70	22,574.41	14,057.38	13,360.73	27,418.11	
W0201	Lean Concrete (17MPa, max agg.38mm)	m3	13.72	2.6%	80.9%	16.6%	56.6%	43.4%	1,450.00	508.56	16,091.50	3,293.93	11,268.43	8,625.57	19,894.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.45	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	538.60	5.62	2,320.73	1,243.83	1,621.02	2,864.85	
W0236	Concrete Curing (plain concrete)	m3	13.45	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	84.42	10.38	24.23	19.04	99.99	119.03	
W0243	Formwork (lean concrete)	m2	6.56	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	411.34	577.96	7.82	38.09	959.03	997.12	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	284.07	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	10,557.32	367,229.29	68,203.29	253,752.16	192,237.74	445,989.90	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	278.50	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	11,119.29	140.34	60,314.86	32,322.80	39,251.70	71,574.50	
W0237	Concrete Curing (reinforced concrete)	m3	278.50	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	874.99	89.25	208.25	163.62	1,008.87	1,172.49	
W0241	Formwork (reinforced concrete H<4m)	m2	188.00	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	24,966.54	16,815.17	330.29	1,228.85	40,883.15	42,112.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	33,420.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	118,420.35	637,554.30	82,815.36	446,078.54	372,711.46	818,790.00	
L002	Foreman	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,698.00	0.00	0.00	0.00	1,698.00	1,698.00	
L009	Welder	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	2,500.00	0.00	0.00	0.00	2,500.00	2,500.00	
L012	Electrician	md	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	4,210.00	0.00	0.00	0.00	4,210.00	4,210.00	
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,015.00	0.00	0.00	0.00	2,015.00	2,015.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
M02015	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	
M13061	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	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	199.26	561.09	4,483.45	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	2.9%	5.1%	92.0%	53.4%	46.6%	2,500.00	1,241.93	2,184.08	39,399.00	22,848.31	19,976.69	42,825.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	6.28	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	378.68	677.84	2,730.31	1,922.88	1,863.96	3,786.84	
	Miscellaneous	LS	1.00	10.0%	40.0%	50.0%	55.0%	45.0%		102,022.02	408,088.08	510,110.10	561,121.11	459,099.09	1,020,220.20	30.0%
	Total									289,322.27	3,295,026.61	836,606.42	2,548,827.66	1,872,126.54	4,420,954.20	
	Components (%)									6.5%	74.5%	18.9%	57.7%	42.3%	100.0%	
	Unit Rate	L.S.								289,259.82	3,294,314.33	836,425.85	2,548,277.53	1,871,722.47	4,420,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L012	Electrician	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	842.00	0.00	0.00	0.00	842.00	842.00	
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%		6,004.22	24,016.90	10,007.04	12,008.45	28,019.71	40,028.16	2.0%
	Total									7,412.22	2,024,016.90	10,007.04	1,012,008.45	1,029,427.71	2,041,436.16	
	Components (%)									0.4%	99.1%	0.5%	49.6%	50.4%	100.0%	
	Unit Rate	day								7,407.01	2,022,592.99	10,000.00	1,011,296.50	1,028,703.50	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 & Gutter/Side Strip

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	13.55	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	3,299.87	1,772.15	7,014.58	4,947.10	7,139.50	12,086.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13.55	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	102.64	185.91	971.60	648.65	611.50	1,260.15	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		13.35	40.04	80.08	66.73	66.73	133.47	1.0%
	Total									3,415.85	1,998.10	8,066.27	5,662.48	7,817.74	13,480.22	
	Components (%)									25.3%	14.8%	59.8%	42.0%	58.0%	100.0%	
	Unit Rate	m								34.21	20.01	80.78	56.71	78.29	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	193.97	52.33	543.26	329.44	460.13	789.57	
W0133	Backfill C	m3	13.27	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	219.74	227.66	1,476.76	950.58	973.57	1,924.15	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.26	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	306.85	164.79	652.28	460.03	663.89	1,123.92	
L002	Foreman	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	141.50	0.00	0.00	0.00	141.50	141.50	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	235.50	0.00	0.00	0.00	235.50	235.50	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	193.97	52.33	543.26	329.44	460.13	789.57	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1.26	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	9.54	17.29	90.35	60.32	56.86	117.18	
W0133	Backfill C	m3	12.01	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	198.87	206.84	1,336.54	860.32	881.13	1,741.45	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	1.26	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	46.83	1,628.86	302.52	1,125.52	852.68	1,978.20	
W0240	Formwork (plain concrete H<4m)	m2	12.57	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	1,642.50	1,126.15	21.89	82.02	2,708.52	2,790.54	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	816.40	0.00	0.00	0.00	816.40	816.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,458.48	3,475.45	4,966.85	4,197.66	8,703.12	12,900.78	
	Components (%)									34.6%	26.9%	38.5%	32.5%	67.5%	100.0%	
	Unit Rate	each								445.82	347.52	496.66	419.74	870.26	1,290.00	

101(13) Removal of Existing Road Signs

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	13.27	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	193.97	52.33	543.26	329.44	460.13	789.57	
W0133	Backfill C	m3	13.27	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	219.74	227.66	1,476.76	950.58	973.57	1,924.15	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1.26	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	306.85	164.79	652.28	460.03	663.89	1,123.92	
L002	Foreman	md	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	141.50	0.00	0.00	0.00	141.50	141.50	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	235.50	0.00	0.00	0.00	235.50	235.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,097.56	444.78	2,672.30	1,740.04	2,474.60	4,214.64	
	Components (%)									26.0%	10.6%	63.4%	41.3%	58.7%	100.0%	
	Unit Rate	each								109.64	44.43	266.94	173.81	247.19	421.00	

101(14) Removal of Existing Concrete Revetment

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	75.00	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	5,441.13	2,971.75	38,387.12	22,775.71	24,024.29	46,800.00	
W0025	Disposal of Demolished Debris	m3	75.00	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	1,669.47	1,324.45	7,281.09	4,816.62	5,458.38	10,275.00	
	Miscellaneous	LS	1.00	0.0%	15.0%	85.0%	55.0%	45.0%		0.00	856.13	4,851.38	3,139.13	2,568.38	5,707.50	10.0%
	Total									7,110.60	5,152.32	50,519.58	30,731.46	32,051.04	62,782.50	
	Components (%)									11.3%	8.2%	80.5%	48.9%	51.1%	100.0%	
	Unit Rate	L.S.								7,112.58	5,153.76	50,533.66	30,740.82	32,059.98	62,800.00	

Miscellaneous covers the cost for earthworks, clearing, etc.

102(1) Unsuitable Excavation

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	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	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	690.44	1,235.88	4,978.04	3,505.89	3,398.46	6,904.35	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									863.92	1,702.16	9,949.57	6,511.64	6,004.01	12,515.65	
	Components (%)									6.9%	13.6%	79.5%	52.0%	48.0%	100.0%	
	Unit Rate	m3								8.63	17.00	99.37	65.03	59.97	125.00	

Q = 60·q·f·E/Cm (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
Cm: Cycle Time = 0.027·L + 0.79 = 0.93 min
L : Average pushing distance = 5.00 m

Q = 3600·q·f·E/Cm (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
Cm: Cycle Time = 30.00 sec

Q = q·f·E/Cm (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
Cm: Cycle Time = A + 2·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

102(2) Surplus Common Excavation

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	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	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	690.44	1,235.88	4,978.04	3,505.89	3,398.46	6,904.35	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									863.92	1,702.16	9,949.57	6,511.64	6,004.01	12,515.65	
	Components (%)									6.9%	13.6%	79.5%	52.0%	48.0%	100.0%	
	Unit Rate	m3								8.63	17.00	99.37	65.03	59.97	125.00	

Q = 60·q·f·E/Cm (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
Cm: Cycle Time = 0.027·L + 0.79 = 0.93 min
L : Average pushing distance = 5.00 m

Q = 3600·q·f·E/Cm (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
Cm: Cycle Time = 30.00 sec

Q = q·f·E/Cm (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
Cm: Cycle Time = A + 2·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

103(1) Structure Excavation

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.1%	8.4%	87.2%	52.9%	47.1%	40.90	179.96	343.56	3,566.48	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	31.90	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	241.63	437.67	2,287.39	1,527.08	1,439.62	2,966.70	
W0132	Backfill B	m3	68.10	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	578.41	756.98	6,223.71	3,875.58	3,683.52	7,559.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,000.01	1,538.21	12,077.58	7,565.39	7,050.41	14,615.80	
	Components (%)									6.8%	10.5%	82.6%	51.8%	48.2%	100.0%	
	Unit Rate	m3								9.99	15.37	120.65	75.57	70.43	146.00	

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

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0105	Excavation, Backhoe 0.61m3	m3	100.00	4.1%	8.4%	87.2%	52.9%	47.1%	40.90	179.96	343.56	3,566.48	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	33.60	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	254.51	461.00	2,409.29	1,608.46	1,516.34	3,124.80	
W0132	Backfill B	m3	66.40	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	563.97	738.08	6,068.34	3,778.83	3,591.57	7,370.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									998.44	1,542.64	12,044.11	7,550.03	7,035.17	14,585.20	
	Components (%)									6.8%	10.6%	82.6%	51.8%	48.2%	100.0%	
	Unit Rate	m3								9.99	15.44	120.56	75.58	70.42	146.00	

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

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0109	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	100.00	3.4%	6.5%	90.1%	53.2%	46.8%	165.00	627.26	1,197.50	16,675.23	9,842.39	8,657.61	18,500.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	100.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	757.47	1,372.02	7,170.51	4,787.07	4,512.93	9,300.00	
W0132	Backfill B	m3	0.00	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	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									1,384.73	2,569.52	23,845.75	14,629.46	13,170.54	27,800.00	
	Components (%)									5.0%	9.2%	85.8%	52.6%	47.4%	100.0%	
	Unit Rate	m3								13.85	25.70	238.46	146.29	131.71	278.00	

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

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	123.90	10.2%	13.5%	76.3%	49.9%	50.1%	199.00	2,517.41	3,328.53	18,810.16	12,309.83	12,346.27	24,656.10	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	123.90	10.2%	13.5%	76.3%	49.9%	50.1%	169.00	2,135.95	2,824.87	15,978.27	10,454.89	10,484.21	20,939.10	
W0411	Temporary Struts & Supports Installation	t	1.98	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	926.75	260.44	1,565.01	1,015.04	1,737.16	2,752.20	
W0412	Temporary Struts & Supports Removal	t	1.98	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	578.41	149.46	909.59	585.19	1,052.27	1,637.46	
M05031	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	
M05041	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	4.1%	8.4%	87.2%	52.9%	47.1%	40.90	179.96	343.56	3,566.48	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	23.30	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	176.49	319.68	1,670.73	1,115.39	1,051.51	2,166.90	
W0132	Backfill B	m3	76.70	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	651.46	852.58	7,009.67	4,365.01	4,148.69	8,513.70	
W0431	Temporary Drain Pump Installation & Removal	set	0.72	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	958.77	148.01	966.82	620.84	1,452.76	2,073.60	
W0432	Temporary Drain Pump Operation	day	20.10	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	1,949.86	4,963.39	17,005.75	12,280.39	11,638.61	23,919.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									10,075.07	32,253.45	67,482.48	54,440.78	55,370.22	109,811.00	
	Components (%)									9.2%	29.4%	61.5%	49.6%	50.4%	100.0%	
	Unit Rate	m3								100.92	323.09	675.99	545.34	554.66	1,100.00	

103(2)d Bridge Excavation below OWL (Rocky Soil) Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	123.90	10.2%	13.5%	76.3%	49.9%	50.1%	255.00	3,227.96	4,267.38	24,099.16	15,773.01	15,821.49	31,594.50	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	123.90	10.2%	13.5%	76.3%	49.9%	50.1%	169.00	2,135.95	2,824.87	15,978.27	10,454.89	10,484.21	20,939.10	
W0411	Temporary Struts & Supports Installation	t	1.98	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	926.75	260.44	1,566.01	1,015.04	1,737.16	2,752.20	
W0412	Temporary Struts & Supports Removal	t	1.98	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	578.41	149.46	909.59	585.19	1,052.27	1,637.46	
M05031	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	
M05041	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 0.6lm3 + Crawler Drill	m3	100.00	3.4%	6.5%	90.1%	53.2%	46.8%	185.00	627.26	1,197.50	16,675.23	9,842.39	8,657.61	18,500.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	100.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	757.47	1,372.02	7,170.51	4,787.07	4,512.93	9,300.00	
W0132	Backfill B	m3	0.00	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0431	Temporary Drain Pump Installation & Removal	set	0.72	46.2%	7.1%	46.6%	29.9%	70.1%	2,886.00	958.77	148.01	966.82	620.84	1,452.76	2,073.60	
W0432	Temporary Drain Pump Operation	day	20.10	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	1,949.86	4,963.39	17,005.75	12,280.39	11,638.61	23,919.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									11,162.44	34,246.00	84,370.36	64,890.29	64,888.51	129,778.80	
	Components (%)									8.6%	26.4%	65.0%	50.0%	50.0%	100.0%	
	Unit Rate	m3								111.81	343.04	845.14	650.01	649.99	1,300.00	

103(3)a Gravel Foundation Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	280.90	480.85	2,334.25	1,456.21	1,639.79	3,096.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	22.69	90.77	62.40	51.06	113.46	3.0%
	Total									967.00	503.54	2,425.02	1,518.61	2,376.95	3,895.56	
	Components (%)									24.8%	12.9%	62.3%	39.0%	61.0%	100.0%	
	Unit Rate	m3								96.81	50.41	242.78	152.03	237.97	390.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0128	Selected Sand, transported	m3	12.00	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	253.04	399.37	1,339.58	867.98	1,124.02	1,992.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	16.07	64.27	44.19	36.15	80.34	3.0%
	Total									939.14	415.44	1,403.86	912.17	1,846.27	2,758.44	
	Components (%)									34.0%	15.1%	50.9%	33.1%	66.9%	100.0%	
	Unit Rate	m3								93.97	41.57	140.47	91.27	184.73	276.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0105	Excavation, Backhoe 0.6lm3	m3	100.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	179.96	343.56	3,566.48	2,162.74	1,927.26	4,090.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	83.90	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	635.52	1,151.12	6,016.06	4,016.35	3,786.35	7,802.70	
W0133	Backfill C	m3	16.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	266.60	276.21	1,791.69	1,153.30	1,181.20	2,334.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,082.08	1,770.89	11,374.23	7,332.39	6,894.81	14,227.20	
	Components (%)									7.6%	12.4%	79.9%	51.5%	48.5%	100.0%	
	Unit Rate	m3								10.80	17.68	113.52	73.18	68.82	142.00	

103(7) Granular Backfill for Pipe Culverts — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0128	Selected Sand, transported	m3	12.00	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	253.04	399.37	1,339.58	867.98	1,124.02	1,992.00	Loss 20.0%
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60	
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									849.64	442.54	1,463.88	963.58	1,792.48	2,756.06	
	Components (%)									30.8%	16.1%	53.1%	35.0%	65.0%	100.0%	
	Unit Rate	m3								85.09	44.32	146.60	96.50	179.50	276.00	

104(1) Embankment from Excavated Soil — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0101	Excavation, Bulldozer 21t	m3	120.00	1.5%	8.2%	90.3%	54.4%	45.6%	25.30	45.54	248.95	2,741.61	1,651.65	1,384.35	3,036.00	Loss 20.0%
W0123	Excavated Soil, transported	m3	120.00	7.2%	13.1%	79.7%	51.8%	48.2%	60.90	523.80	956.96	5,827.24	3,788.51	3,519.49	7,308.00	Loss 20.0%
W0141	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	
W0147	Compaction, tire roller 8~20t	m3	100.00	4.3%	8.0%	87.7%	52.7%	47.3%	10.40	44.72	83.20	912.08	548.38	491.62	1,040.00	
W0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.1%	51.1%	48.9%	39.60	28.78	28.70	328.22	197.15	188.55	385.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									725.33	1,532.32	12,262.05	7,659.12	6,860.58	14,519.70	
	Components (%)									5.0%	10.6%	84.5%	52.7%	47.3%	100.0%	
	Unit Rate	m3								7.24	15.30	122.45	76.49	68.51	145.00	

104(3) Embankment from Borrow Soil — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0121	Borrow Soil, transported	m3	120.00	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	1,759.25	5,681.05	18,119.71	12,370.26	13,189.74	25,560.00	Loss 20.0%
W0141	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	
W0147	Compaction, tire roller 8~20t	m3	100.00	4.3%	8.0%	87.7%	52.7%	47.3%	10.40	44.72	83.20	912.08	548.38	491.62	1,040.00	
W0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.1%	51.1%	48.9%	39.60	28.78	28.70	328.22	197.15	188.55	385.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,915.24	6,007.45	21,813.01	14,589.22	15,146.48	29,735.70	
	Components (%)									6.4%	20.2%	73.4%	49.1%	50.9%	100.0%	
	Unit Rate	m3								19.13	60.00	217.87	145.72	151.28	297.00	

104(4) Embankment from Borrow (Selected Granular Material) for Bridge — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0128	Selected Sand, transported	m3	120.00	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	2,530.43	3,993.73	13,395.83	8,679.80	11,240.20	19,920.00	Loss 20.0%
W0141	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	
W0145	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	1,285.92	1,114.10	2,400.00	
W0151	Slope Formation by Bulldozer	m2	9.74	7.5%	7.4%	85.1%	51.1%	48.9%	39.60	28.78	28.70	328.22	197.15	188.55	385.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,713.71	4,424.13	18,317.86	11,636.27	13,819.43	25,455.70	
	Components (%)									10.7%	17.4%	72.0%	45.7%	54.3%	100.0%	
	Unit Rate	m3								27.18	44.32	183.50	116.57	138.43	255.00	

105(1) Subgrade Preparation (Common Soil) — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	40.82	0.00	0.00	0.00	40.82	40.82	
R0301-371	Motor Grader, 3.71m	hr	0.26	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	20.87	40.01	518.92	308.27	271.53	579.80	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0.17	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	13.80	31.06	300.24	183.62	161.48	345.10	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.17	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	14.40	26.79	293.71	176.59	158.31	334.90	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	0.11	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	6.77	14.75	38.43	30.46	29.49	59.95	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									96.67	112.60	1,151.29	698.94	661.63	1,360.57	
	Components (%)									7.1%	8.3%	84.6%	51.4%	48.6%	100.0%	
	Unit Rate	m2								0.97	1.13	11.51	6.99	6.61	13.60	

105(2) Subgrade Preparation (Existing Gravel Surface)

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	40.82	0.00	0.00	0.00	40.82	40.82	
R0301-371	Motor Grader, 3.71m	hr	0.26	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	20.87	40.01	518.92	308.27	271.53	579.80	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0.17	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	13.80	31.06	300.24	183.62	161.48	345.10	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.17	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	14.40	26.79	293.71	176.59	158.31	334.90	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	0.11	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	6.77	14.75	38.43	30.46	29.49	59.95	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									96.67	112.60	1,151.29	698.94	661.53	1,360.57	
	Components (%)									7.1%	8.3%	84.6%	51.4%	48.6%	100.0%	
	Unit Rate	m2								0.97	1.13	11.51	6.99	6.61	13.60	

Part D Subbase and Base Course

200(1) Aggregate Subbase Course

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	1.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	427.04	0.00	0.00	0.00	427.04	427.04	
R0301-371	Motor Grader, 3.71m	hr	2.48	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	199.09	381.60	4,949.71	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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	168.90	380.02	3,673.49	2,246.70	1,975.70	4,222.40	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.08	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	176.20	327.81	3,593.60	2,160.62	1,936.98	4,097.60	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.36	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	83.76	182.34	475.11	376.56	364.64	741.20	
W0122	Crushed Aggregate, transported	m3	128.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	2,996.26	5,129.06	24,898.68	15,532.88	17,491.12	33,024.00	Loss 28.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,051.24	6,400.81	37,590.58	23,257.15	24,785.49	48,042.64	
	Components (%)									8.4%	13.3%	78.2%	48.4%	51.6%	100.0%	
	Unit Rate	m3								40.48	63.95	375.57	232.37	247.63	480.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	1.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	427.04	0.00	0.00	0.00	427.04	427.04	
R0301-371	Motor Grader, 3.71m	hr	2.48	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	199.09	381.60	4,949.71	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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	168.90	380.02	3,673.49	2,246.70	1,975.70	4,222.40	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.08	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	176.20	327.81	3,593.60	2,160.62	1,936.98	4,097.60	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.36	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	83.76	182.34	475.11	376.56	364.64	741.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,054.98	1,271.76	12,691.90	7,724.27	7,294.37	15,018.64	
	Components (%)									7.0%	8.5%	84.5%	51.4%	48.6%	100.0%	
	Unit Rate	m3								10.54	12.70	126.76	77.15	72.85	150.00	

Thickness = 0.250 m

Compaction layer thickness = 0.200 m

201(1) Aggregate Base Course

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	1.76	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	552.64	0.00	0.00	0.00	552.64	552.64	
R0301-371	Motor Grader, 3.7lm	hr	2.48	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	199.09	381.60	4,949.71	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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	214.37	482.33	4,662.50	2,851.58	2,507.62	5,359.20	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	2.64	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	223.63	416.06	4,561.10	2,742.33	2,458.47	5,200.80	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1.68	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	103.46	225.24	586.90	465.17	450.43	915.60	
W0122	Crushed Aggregate, transported	m3	128.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	2,996.26	5,129.06	24,898.68	15,532.88	17,491.12	33,024.00	Loss 28.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,289.46	6,634.28	39,658.90	24,532.34	26,050.30	50,582.64	
	Components (%)									8.5%	13.1%	78.4%	48.5%	51.5%	100.0%	
	Unit Rate	m3								42.91	66.37	396.73	245.41	260.59	506.00	

Thickness = 0.250 m
Compaction layer thickness = 0.150 m

204(1) Cement Stabilized Sand Base Course

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	524.38	0.00	0.00	0.00	524.38	524.38	
W0128	Selected Sand, transported	m3	120.75	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	2,546.25	4,018.69	13,479.56	8,734.05	11,310.45	20,044.50	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%
R0402-085	Truck Crane, Hydraulic 2-5t	hr	1.90	17.9%	10.9%	71.2%	45.7%	54.3%	412.00	140.12	85.33	557.35	357.90	424.90	782.80	
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, 3.7lm	hr	1.67	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	134.07	256.96	3,333.07	1,980.02	1,744.08	3,724.10	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	1.67	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	141.47	263.19	2,885.24	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									3,649.80	24,588.48	31,281.14	30,794.30	28,725.13	59,519.43	
	Components (%)									6.1%	41.3%	52.6%	51.7%	48.3%	100.0%	
	Unit Rate	m3								36.49	245.80	312.71	307.84	287.16	595.00	

Thickness = 0.300 m Cement 6.0%

Part E Surface Courses

300(1) Gravel Surface Course

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80	
R0301-371	Motor Grader, 3.7lm	hr	3.10	3.6%	6.9%	89.5%	53.2%	46.8%	2,230.00	248.87	477.00	6,187.14	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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	267.96	602.91	5,828.13	3,564.47	3,134.53	6,699.00	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	3.30	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	279.54	520.08	5,701.38	3,427.91	3,073.09	6,501.00	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	2.10	11.3%	24.6%	64.1%	50.8%	49.2%	545.00	129.33	281.55	733.62	581.46	563.04	1,144.50	
W0129	Gravel/Stone, transported	m3	132.00	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	3,019.19	4,827.42	18,025.39	11,616.28	14,255.72	25,872.00	Loss 32.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,635.69	6,708.96	36,475.66	22,865.61	24,954.69	47,820.30	
	Components (%)									9.7%	14.0%	76.3%	47.8%	52.2%	100.0%	
	Unit Rate	m3								46.34	67.06	364.60	228.56	249.44	478.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
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	22.76	204.85	113.80	113.80	227.61	1.0%
	Total									125.60	22,657.76	204.85	14,826.55	8,161.65	22,988.21	
	Components (%)									0.5%	98.6%	0.9%	64.5%	35.5%	100.0%	
	Unit Rate	t								125.66	22,669.39	204.95	14,834.16	8,165.84	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L020	Unskilled Labor	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	147.58	0.00	0.00	0.00	147.58	147.58	
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	22.78	205.04	113.91	113.91	227.83	1.0%
	Total									147.58	22,657.78	205.04	14,826.66	8,183.74	23,010.41	
	Components (%)									0.6%	98.5%	0.9%	64.4%	35.6%	100.0%	
	Unit Rate	t								147.51	22,647.54	204.95	14,819.96	8,180.04	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.03	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	16.98	0.00	0.00	0.00	16.98	16.98	
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	72.54	0.00	0.00	0.00	72.54	72.54	
L020	Unskilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	56.52	0.00	0.00	0.00	56.52	56.52	
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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	22.74	51.16	494.51	302.44	265.96	568.40	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.28	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	23.72	44.13	483.75	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	59.89	239.55	149.72	149.72	299.44	1.0%
	Total									214.18	28,184.31	1,844.59	19,302.90	10,940.18	30,243.08	
	Components (%)									0.7%	93.2%	6.1%	63.8%	36.2%	100.0%	
	Unit Rate	t								21.39	2,814.42	184.20	1,927.54	1,092.46	3,020.00	

Miscellaneous covers the cost for spraying equipment, heating fuel, formwork, etc.
Asphalt Pavement Thickness = 50.000 mm Unit Wight = 2.35 t/m3

310(2) Asphalt Mixture Wearing Course (t=60mm) for bridge pavement

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	22.64	0.00	0.00	0.00	22.64	22.64	
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	84.63	0.00	0.00	0.00	84.63	84.63	
L020	Unskilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	65.94	0.00	0.00	0.00	65.94	65.94	
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	4.0%	9.0%	87.0%	53.2%	46.8%	2,030.00	26.80	60.29	582.81	356.45	313.45	669.90	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.33	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	27.95	52.01	570.14	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	72.19	288.78	180.49	180.49	360.97	1.0%
	Total									253.52	34,024.23	2,180.43	23,277.38	13,180.80	36,458.18	
	Components (%)									0.7%	93.3%	6.0%	63.8%	36.2%	100.0%	
	Unit Rate	m2								2.54	340.63	21.83	233.04	131.96	365.00	

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

310(3) Waterproofing Layer for Pampanga Deck Slab

Unit: 100.00 m2

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	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	219.80	0.00	0.00	0.00	219.80	219.80	
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	448.35	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	15.26	137.38	76.32	76.32	152.64	5.0%
	Total									986.40	2,081.66	137.38	1,419.48	1,785.96	3,205.44	
	Components (%)									30.8%	64.9%	4.3%	44.3%	55.7%	100.0%	
	Unit Rate	m2								9.88	20.85	1.38	14.21	17.89	32.10	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	673.01	0.00	0.00	0.00	673.01	673.01	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,106.94	0.00	0.00	0.00	2,106.94	2,106.94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	28.84	2.6%	80.3%	17.1%	57.3%	42.7%	1,480.00	1,099.20	34,282.66	7,301.33	24,456.99	18,226.21	42,683.20	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%	96.3%	52.9%	47.1%	3,260.00	82.28	57.03	3,609.69	1,983.76	1,765.24	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.0%	9.6%	85.4%	52.6%	47.4%	1,400.00	80.50	154.56	1,374.94	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	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	1,030.09	2,403.54	1,716.81	1,716.81	3,433.62	6.0%
	Total									4,393.42	39,583.18	16,684.06	32,735.27	27,925.39	60,660.66	
	Components (%)									7.2%	65.3%	27.5%	54.0%	46.0%	100.0%	
	Unit Rate	m2								43.96	396.09	166.95	327.57	279.43	607.00	

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: 100.000 m2

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	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	673.01	0.00	0.00	0.00	673.01	673.01	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,106.94	0.00	0.00	0.00	2,106.94	2,106.94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	26.00	2.6%	80.3%	17.1%	57.3%	42.7%	1,480.00	990.96	30,906.70	6,582.34	22,048.61	16,431.39	38,480.00	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%	96.3%	52.9%	47.1%	3,260.00	82.28	57.03	3,609.69	1,983.76	1,765.24	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.0%	9.6%	85.4%	52.6%	47.4%	1,400.00	80.50	154.56	1,374.94	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	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	953.60	2,225.06	1,589.33	1,589.33	3,178.65	6.0%
	Total									4,285.17	36,084.47	15,786.59	30,171.65	25,984.59	56,156.23	
	Components (%)									7.6%	64.3%	28.1%	53.7%	46.3%	100.0%	
	Unit Rate	m2								42.89	361.13	157.99	301.95	260.05	562.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.
Thickness = 0.250 m

311(1)c PCC Pavement (Plain), t=230mm

Unit: 100.00 m2

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	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	673.01	0.00	0.00	0.00	673.01	673.01	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,106.94	0.00	0.00	0.00	2,106.94	2,106.94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	23.92	2.6%	80.3%	17.1%	57.3%	42.7%	1,480.00	911.68	28,434.16	6,055.75	20,284.72	15,116.88	35,401.60	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%	96.3%	52.9%	47.1%	3,260.00	82.28	57.03	3,609.69	1,983.76	1,765.24	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.0%	9.6%	85.4%	52.6%	47.4%	1,400.00	80.50	154.56	1,374.94	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	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	898.53	2,096.57	1,497.55	1,497.55	2,995.10	6.0%
	Total									4,206.90	33,576.05	15,131.52	28,333.01	24,580.46	52,913.46	
	Components (%)									7.9%	63.5%	28.6%	53.5%	46.5%	100.0%	
	Unit Rate	m2								42.05	335.68	151.28	283.26	245.71	529.00	

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

311(1)d PCC Pavement (Plain), t=180mm

Unit: 100.00 m2

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	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	673.01	0.00	0.00	0.00	673.01	673.01	
L020	Unskilled Labor	md	6.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,106.94	0.00	0.00	0.00	2,106.94	2,106.94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)	m3	18.72	2.6%	80.3%	17.1%	57.3%	42.7%	1,480.00	713.49	22,252.82	4,739.28	15,875.00	11,830.60	27,705.60	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%	96.3%	52.9%	47.1%	3,260.00	82.28	57.03	3,609.69	1,983.76	1,765.24	3,749.00	
R0706-090	Concrete Paver/Finisher	hr	1.15	5.0%	9.6%	85.4%	52.6%	47.4%	1,400.00	80.50	154.56	1,374.94	847.44	762.56	1,610.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	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	765.49	1,786.15	1,275.82	1,275.82	2,551.64	6.0%
	Total									4,007.70	27,566.59	13,504.62	23,923.22	21,155.70	45,078.92	
	Components (%)									8.9%	61.2%	30.0%	53.1%	46.9%	100.0%	
	Unit Rate	m2								40.10	275.79	135.11	239.34	211.66	451.00	

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

SPL 311(1)e PCC Pavement (Lean Mix Concrete)

Unit: 10.00 m3

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	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	186.78	0.00	0.00	0.00	186.78	186.78	
L019	Skilled Labor	md	1.39	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	560.17	0.00	0.00	0.00	560.17	560.17	
L020	Unskilled Labor	md	5.59	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,755.26	0.00	0.00	0.00	1,755.26	1,755.26	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	10.40	2.8%	78.4%	18.8%	56.3%	43.7%	1,340.00	395.03	10,925.41	2,615.56	7,846.18	6,089.82	13,936.00	Loss 4.0%
Q0705-075	Concrete Spreader, 3~7.5m	hr	0.96	2.2%	1.5%	96.3%	52.9%	47.1%	3,260.00	68.68	47.61	3,013.31	1,656.01	1,473.59	3,129.60	
R0706-090	Concrete Paver/Finisher	hr	0.96	5.0%	9.6%	85.4%	52.6%	47.4%	1,400.00	67.20	129.02	1,147.78	707.43	636.57	1,344.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%		0.00	410.65	958.18	684.41	684.41	1,368.82	6.0%
	Total									3,137.73	11,642.02	9,402.79	11,882.29	12,308.24	24,182.53	
	Components (%)									13.0%	48.1%	38.9%	49.1%	50.9%	100.0%	
	Unit Rate	m3								314.00	1,165.04	940.96	1,189.09	1,230.91	2,420.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	33.66	2.1%	82.3%	15.3%	56.9%	43.1%	1,570.00	1,250.96	43,513.70	8,081.54	30,067.58	22,778.62	52,846.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	33.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	1,317.55	16.63	7,146.82	3,829.99	4,651.01	8,481.00	
W0237	Concrete Curing (reinforced concrete)	m3	33.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	103.68	10.58	24.68	19.39	119.54	138.93	
W0241	Formwork (reinforced concrete H<4m)	m2	18.62	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	2,472.75	1,665.42	32.71	121.71	4,049.17	4,170.88	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,444.40	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	5,111.06	25,915.79	2,627.67	18,171.74	15,482.78	33,654.52	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,805.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	13,484.40	72,597.63	7,152.72	50,794.49	42,440.26	93,234.75	
M07102	Joint Filler (bituminous t=12mm)	m2	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	
M07112	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	
M02011	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%		401.44	802.88	2,810.07	2,007.19	2,007.19	4,014.38	2.0%
	Total									24,141.83	152,715.48	27,876.20	110,186.98	94,546.54	204,733.51	
	Components (%)									11.8%	74.6%	13.6%	53.8%	46.2%	100.0%	
	Unit Rate	m2								241.73	1,529.14	279.12	1,103.30	946.70	2,050.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	*Skilled Labor*	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
M02015	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	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	45.04	50.26	557.41	335.83	316.87	652.70	
R0604-020	Trailer 20t	hr	12.23	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	776.12	2,185.38	17,462.61	10,887.31	9,536.79	20,424.10	
	Miscellaneous	LS	1.00	10.0%	20.0%	70.0%	50.0%	50.0%		13,482.66	26,965.32	94,378.61	67,413.30	67,413.30	134,826.59	25.0%
	Total									15,320.01	544,334.76	114,478.18	440,255.85	233,877.10	674,132.95	
	Components (%)									2.3%	80.7%	17.0%	65.3%	34.7%	100.0%	
	Unit Rate	m								153.17	5,442.27	1,144.56	4,401.69	2,338.31	6,740.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	15.94	2.0%	85.0%	12.9%	58.0%	42.0%	1,800.00	579.58	24,402.51	3,709.90	16,652.07	12,039.93	28,692.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.63	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	624.04	7.88	3,385.00	1,814.02	2,202.89	4,016.91	
W0237	Concrete Curing (reinforced concrete)	m3	15.63	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	49.10	5.01	11.69	9.18	56.62	65.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,696.70	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	16,619.44	84,269.39	8,544.29	59,088.34	50,344.77	109,433.11	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.59	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	43.16	53.36	688.18	407.74	376.96	784.70	
R0604-020	Trailer 20t	hr	1.09	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	69.17	194.77	1,556.36	970.33	849.97	1,820.30	
	Miscellaneous	LS	1.00	5.0%	25.0%	70.0%	50.0%	50.0%		579.25	2,896.26	8,109.52	5,792.51	5,792.51	11,585.03	8.0%
	Total									18,563.74	111,829.17	26,004.93	84,734.20	71,663.64	156,397.85	
	Components (%)									11.9%	71.5%	16.6%	54.2%	45.8%	100.0%	
	Unit Rate	m								185.17	1,115.45	259.39	845.19	714.81	1,560.00	

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 agg. 20mm)	m3	20.04	2.0%	85.0%	12.9%	58.0%	42.0%	1,800.00	728.66	30,679.20	4,664.14	20,935.23	15,136.77	36,072.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	19.65	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	784.54	9.90	4,255.61	2,280.59	2,769.46	5,050.05	
W0237	Concrete Curing (reinforced concrete)	m3	19.65	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	61.74	6.30	14.69	11.55	71.18	82.73	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	5,985.30	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	21,179.19	107,389.78	10,888.52	75,299.98	64,157.51	139,457.49	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.74	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	54.13	66.93	863.14	511.41	472.79	984.20	
R0604-020	Trailer 20t	hr	1.37	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	86.94	244.81	1,956.15	1,219.59	1,068.31	2,287.90	
	Miscellaneous	LS	1.00	5.0%	25.0%	70.0%	50.0%	50.0%		735.74	3,678.69	10,300.32	7,357.37	7,357.37	14,714.75	8.0%
	Total									23,630.94	142,075.59	32,942.59	107,615.71	91,033.41	198,649.12	
	Components (%)									11.9%	71.5%	16.6%	54.2%	45.8%	100.0%	
	Unit Rate	m								236.73	1,423.27	330.01	1,078.06	911.94	1,990.00	

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%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L009	Welder	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	700.00	0.00	0.00	0.00	700.00	700.00	
L019	Skilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,128.40	0.00	0.00	0.00	1,128.40	1,128.40	
L020	Unskilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	439.60	0.00	0.00	0.00	439.60	439.60	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	635.71	1,448.83	12,699.46	7,822.46	6,961.54	14,784.00	
M02001	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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	386.23	477.52	6,158.64	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%		30.84	123.38	462.67	308.45	308.45	616.89	1.0%
	Total									4,113.19	20,945.35	37,247.56	33,990.06	28,316.03	62,306.09	
	Components (%)									6.6%	33.6%	59.8%	54.6%	45.4%	100.0%	
	Unit Rate	m								41.13	209.43	372.44	339.87	283.13	623.00	

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

Tc = (Tb + Tw + Tp) / F

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

400(13)a Precast Concrete Piles (400mm x 400mm), driven Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	554.68	0.00	0.00	0.00	554.68	554.68	
L009	Welder	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	490.00	0.00	0.00	0.00	490.00	490.00	
L019	Skilled Labor	md	1.96	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	789.88	0.00	0.00	0.00	789.88	789.88	
L020	Unskilled Labor	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	307.72	0.00	0.00	0.00	307.72	307.72	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	445.72	1,015.83	8,904.05	5,484.61	4,880.99	10,365.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.70	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	270.66	334.63	4,315.72	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%		16.36	65.42	245.33	179.91	147.20	327.11	1.0%
	Total									2,875.01	4,132.73	26,030.55	16,946.43	16,091.86	33,038.29	
	Components (%)									8.7%	12.5%	78.8%	51.3%	48.7%	100.0%	
	Unit Rate	m								28.72	41.28	260.00	169.27	160.73	330.00	

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

Tc = (Th + Tw + Tp) / F

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

400(13)b Precast Concrete Piles (450mm x 450mm), driven Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	588.64	0.00	0.00	0.00	588.64	588.64	
L009	Welder	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	520.00	0.00	0.00	0.00	520.00	520.00	
L019	Skilled Labor	md	2.08	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	838.24	0.00	0.00	0.00	838.24	838.24	
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	326.56	0.00	0.00	0.00	326.56	326.56	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	472.45	1,076.75	9,438.00	5,813.51	5,173.69	10,987.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.92	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	286.75	354.52	4,572.33	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%		17.34	69.36	260.09	190.74	156.06	346.79	1.0%
	Total									3,049.98	4,383.82	27,592.23	17,965.17	17,060.87	35,026.03	
	Components (%)									8.7%	12.5%	78.8%	51.3%	48.7%	100.0%	
	Unit Rate	m								30.48	43.81	275.72	179.52	170.48	350.00	

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

Tc = (Th + Tw + Tp) / F

Tc: Cycle time per pile	=	41.78 min	L : Pile Driving Length	10.65 m	
Th: Driving Time = K·α·L·β	=	19.60 min	D : Pile size	0.45 m	
Tw: Welding Time = 18·n	=	0.00 min	n : number of joint	0.00	
Tp: Preparation time = 6·(n+1)+12	=	18.00 min	f1: Obstruction factor	0.00	
F : Efficiency = 0.9 + (f1 + f2 + f3)	=	0.90	f2: Space factor	0.00	
K : Pile Coefficient	=	1.60	f3: Volume factor	0.00	
α : Soil factor	=	1.15	T : Daily Operation hour	6.29 hr	
β : Hammer factor	=	1.00			

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	435.82	0.00	0.00	0.00	435.82	435.82	
L009	Welder	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	385.00	0.00	0.00	0.00	385.00	385.00	
L019	Skilled Labor	md	1.53	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	616.59	0.00	0.00	0.00	616.59	616.59	
L020	Unskilled Labor	md	0.77	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	241.78	0.00	0.00	0.00	241.78	241.78	
400(4)a	Precast RC Concrete Pile (400mm x 400mm), furnished	m	100.00	11.9%	71.5%	16.6%	54.2%	45.8%	1,560.00	18,516.52	111,644.70	25,938.78	84,518.65	71,481.35	156,000.00	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	348.20	793.56	6,955.84	4,284.58	3,813.02	8,097.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.89	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	211.40	261.37	3,370.92	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	686.36	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%		181.58	363.16	1,271.07	998.70	817.12	1,815.81	1.0%
	Total									20,936.89	115,097.47	47,362.94	98,628.56	84,768.74	183,397.30	
	Components (%)									11.4%	62.8%	25.8%	53.8%	46.2%	100.0%	
	Unit Rate	m								209.92	1,148.48	472.60	984.15	845.85	1,830.00	

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

Tc = (Tb + Tw + Tp) / F

Tc: Cycle time per pile	=	43.10 min	Lf: Pile Furnished Length	14.90 m	
Tb: Driving Time = K·α·Ld·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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	400.00	0.00	0.00	0.00	400.00	400.00	
L019	Skilled Labor	md	1.59	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	640.77	0.00	0.00	0.00	640.77	640.77	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20	
400(4)b	Precast RC Concrete Pile (450mmx450mm) furnished	m	100.00	11.9%	71.5%	16.6%	54.2%	45.8%	1,990.00	23,672.68	142,326.54	33,000.78	107,805.80	91,194.20	199,000.00	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	361.92	824.85	7,230.03	4,453.47	3,963.33	8,416.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.01	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	220.18	272.22	3,510.89	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%		225.60	451.19	1,579.17	1,240.78	1,015.18	2,255.96	1.0%
	Total									26,225.15	146,092.64	55,533.73	122,677.74	105,173.79	227,851.53	
	Components (%)									11.5%	64.1%	24.4%	53.8%	46.2%	100.0%	
	Unit Rate	m								262.42	1,461.88	555.70	1,227.58	1,052.42	2,280.00	

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

Tc = (Tb + Tw + Tp) / F

Tc: Cycle time per pile	=	41.78 min	Lf: Pile Furnished Length	13.90 m	
Th: Driving Time = K·α·L·β	=	19.60 min	Ld: Pile Driving Length	10.65 m	
Tw: Welding Time = 18·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 460mmx260kg/m), furnished & driven

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	560.34	0.00	0.00	0.00	560.34	560.34	
L009	Welder	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	495.00	0.00	0.00	0.00	495.00	495.00	
L019	Skilled Labor	md	1.98	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	797.94	0.00	0.00	0.00	797.94	797.94	
L020	Unskilled Labor	md	0.99	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	310.86	0.00	0.00	0.00	310.86	310.86	
400(3)a	Steel H Piles (460mmx260kg/m), furnished	m	100.00	2.3%	80.7%	17.0%	65.3%	34.7%	6,740.00	15,316.99	544,227.41	114,455.60	440,169.02	233,830.98	674,000.00	
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	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	450.78	1,027.35	9,005.67	5,546.84	4,936.36	10,483.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.74	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	273.58	338.25	4,362.37	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%		707.07	1,414.14	4,949.50	3,888.89	3,181.82	7,070.72	1.0%
	Total									18,912.56	549,751.73	145,477.97	461,009.87	253,132.39	714,142.26	
	Components (%)									2.6%	77.0%	20.4%	64.6%	35.4%	100.0%	
	Unit Rate	m								189.1	5,496.4	1,454.5	4,609.2	2,530.8	7,140.0	

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

Tc = (Tb + Tw + Tp) / F

Tc: Cycle time per pile	=	26.20 min	Lf: Pile Furnished Length		7.00 m
Tb: Driving Time = K·α·L·β	=	5.58 min	L : Pile Driving Length		5.00 m
Tw: Welding Time = 18·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	=	1.00	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(16)a Cast-in-place Concrete Bored Piles φ1000mm

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	5.44	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	3,079.04	0.00	0.00	0.00	3,079.04	3,079.04	
L019	Skilled Labor	md	9.14	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,683.42	0.00	0.00	0.00	3,683.42	3,683.42	
L020	Unskilled Labor	md	8.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,637.60	0.00	0.00	0.00	2,637.60	2,637.60	
W0205	Concrete (Class AAl, 28MPa, max agg.25mm)	m3	84.82	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	3,142.90	122,347.39	20,400.11	84,410.85	61,479.65	145,890.40	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	78.54	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	3,135.76	39.58	17,009.44	9,115.38	11,069.40	20,184.78	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	157.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	555.55	2,816.93	285.62	1,975.19	1,682.91	3,658.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	21,049.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	74,584.98	401,552.37	39,563.15	280,954.73	234,745.77	515,700.50	
Q0513-120	All Casing Excavator, φ1200max	hr	34.35	1.0%	4.4%	94.6%	55.4%	44.6%	6,280.00	2,167.74	9,303.94	201,498.33	117,997.57	94,972.43	212,970.00	
R0401-035	Crawler Crane, 31-35t	hr	38.91	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	2,232.94	5,089.02	44,606.84	27,476.40	24,452.40	51,928.80	
Q0514-100	Hammer Grab, φ1000	day	5.28	0.0%	0.0%	100.0%	67.0%	33.0%	5,660.00	0.00	0.00	29,884.80	20,011.07	9,873.73	29,884.80	
Q0515-001	Hammer Crown, ≦φ1200	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, φ1000, 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	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	587.19	1,063.59	5,558.58	3,710.94	3,498.42	7,209.36	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		1,816.47	10,898.84	23,614.15	19,981.20	16,348.25	36,329.45	3.0%
	Total									97,623.58	553,111.66	596,576.01	712,543.92	534,767.33	1,247,311.25	
	Components (%)									7.8%	44.3%	47.8%	57.1%	42.9%	100.0%	
	Unit Rate	m								978.34	5,543.04	5,978.62	7,140.80	5,359.20	12,500.00	

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	=	573 min/pile	Excavator Operation Time TD1 = Tc - 16.4		556.44 min/pile
Tso: Preparation Time = 46.8+11.3xL2	=	348 min/pile	Crawler Crane Operation Time TD2 = 0.9xTD1		500.80 min/pile
Te: Excavation Time = Σaixli	=	225 min/pile	B : 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	aixLi
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

400(16)b Cast-in-place Concrete Bored Piles ϕ1200mm

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	5.62	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	3,180.92	0.00	0.00	0.00	3,180.92	3,180.92	
L019	Skilled Labor	md	10.89	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,388.67	0.00	0.00	0.00	4,388.67	4,388.67	
L020	Unskilled Labor	md	9.84	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,089.76	0.00	0.00	0.00	3,089.76	3,089.76	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	122.15	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	4,526.12	176,193.52	29,378.37	121,560.78	88,537.22	210,098.00	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	113.10	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	4,515.59	56.99	24,494.12	13,126.42	15,940.28	29,066.70	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	226.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	799.71	4,054.95	411.14	2,843.27	2,422.53	5,265.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	30,311.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	107,403.92	578,243.81	56,971.76	404,580.68	338,038.82	742,619.50	
Q0513-120	All Casing Excavator, ϕ1200max	hr	35.12	1.0%	4.4%	94.6%	55.4%	44.6%	6,200.00	2,216.33	9,512.50	206,915.17	120,642.64	97,101.36	217,744.00	
R0401-035	Crawler Crane, 31-35t	hr	31.61	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	2,283.51	5,204.27	45,617.02	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, $\leqq\phi$1200	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	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	840.87	1,623.08	7,959.99	5,314.13	5,009.80	10,323.93	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		2,379.70	14,278.17	30,936.04	26,176.65	21,417.26	47,593.91	3.0%
	Total									135,625.09	789,067.29	709,365.21	932,777.78	701,279.81	1,634,057.59	
	Components (%)									8.3%	48.3%	43.4%	57.1%	42.9%	100.0%	
	Unit Rate	m								1,352.88	7,871.08	7,076.04	9,304.62	6,995.38	16,300.00	

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 = ΣaixLi = 159.24 min/pile

	ai	Li	aixLi
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 = 400.38 min/pile

Crawler Crane Operation Time TD2 = 0.9xTD1 = 360.34 min/pile

D : Pile diameter = 1.200 m

L : Pile length = 19.000 m

L2: Excavation depth = 18.650 m

Steel Casing Length = 22.650 m

T : Daily Operation hour = 6.50 hr

400(16)c Cast-in-place Concrete Bored Piles φ1500mm

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	5.61	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	3,175.26	0.00	0.00	0.00	3,175.26	3,175.26	
L019	Skilled Labor	md	10.61	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,275.83	0.00	0.00	0.00	4,275.83	4,275.83	
L020	Unskilled Labor	md	9.61	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,017.54	0.00	0.00	0.00	3,017.54	3,017.54	
W0205	Concrete (Class AA), 28MPa, max agg. 25mm)	m3	190.85	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	7,071.71	275,288.84	45,901.45	189,929.39	138,332.61	328,262.00	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	176.71	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	7,055.26	89.05	38,270.16	20,509.02	24,905.45	45,414.47	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	353.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	1,249.10	6,333.62	642.18	4,441.03	3,783.87	8,224.90	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	47,358.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	167,808.22	903,449.92	89,012.86	632,118.11	528,152.89	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	2,215.85	6,323.86	294,287.79	167,613.21	135,213.49	302,826.70	
R0401-036	Crawler Crane, 31-35t	hr	31.58	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	2,281.34	5,199.33	45,573.73	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	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	1,315.12	2,382.09	12,449.45	8,311.32	7,835.34	16,146.66	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		3,521.30	21,127.82	45,776.93	38,734.33	31,691.72	70,426.05	3.0%
	Total									202,985.74	1,220,194.52	994,780.85	1,378,863.91	1,039,097.20	2,417,961.11	
	Components (%)									8.4%	50.5%	41.1%	57.0%	43.0%	100.0%	
	Unit Rate	m								2,031.57	12,212.23	9,956.20	13,800.27	10,399.73	24,200.00	

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 = 437.49 min/pile

Tso: Preparation Time = 46.8+11.3x12 = 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 = 421.09 min/pile

Crawler Crane Operation Time TD2 = 0.9xTD1 = 378.98 min/pile

D : Pile diameter = 1.500 m

L : Pile Length = 20.000 m

L2: Excavation depth = 19.650 m

Steel Casing Length = 24.650 m

T : Daily Operation hour = 6.50 hr

400(16)d Cast-in-place Concrete Bored Piles φ800mm

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	5.94	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	3,362.04	0.00	0.00	0.00	3,362.04	3,362.04	
L019	Skilled Labor	md	14.28	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,754.84	0.00	0.00	0.00	5,754.84	5,754.84	
L020	Unskilled Labor	md	12.61	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,959.54	0.00	0.00	0.00	3,959.54	3,959.54	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	54.29	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	2,011.65	78,309.83	13,057.32	54,028.12	39,350.68	93,378.80	Loss 8.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	50.27	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	2,007.06	25.33	10,887.00	5,834.35	7,085.04	12,919.39	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,137.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	11,100.38	56,284.85	5,706.86	39,466.03	33,626.07	73,092.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	13,975.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	49,518.98	266,601.47	26,267.04	186,533.44	155,854.06	342,387.50	
Q0513-120	All Casing Excavator, φ1200max	hr	36.35	1.0%	4.4%	94.6%	55.4%	44.6%	6,200.00	2,293.95	9,845.65	213,230.40	124,867.88	100,502.12	225,370.00	
R0401-035	Crawler Crane, 31-35t	hr	32.71	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.00	2,362.97	5,385.37	47,204.46	29,076.45	25,876.35	54,952.80	
Q0514-080	Hammer Grab, φ800	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, >φ1200	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, φ800, 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	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	369.65	669.54	3,499.21	2,336.09	2,202.31	4,538.40	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	55.0%	45.0%		1,591.44	9,548.62	20,688.67	17,505.80	14,322.93	31,828.73	3.0%
	Total									84,332.50	426,670.68	581,783.06	624,737.58	468,048.66	1,092,786.24	
	Components (%)									7.7%	39.0%	53.2%	57.2%	42.8%	100.0%	
	Unit Rate	m								841.17	4,255.83	5,803.00	6,231.45	4,668.55	10,900.00	

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

Tc = Tso + Tc

Tc: Cycle time per pile = 278.10 min/pile

Tso: Preparation Time = 46.8+11.3xL2 = 178.45 min/pile

Te: Excavation Time = Σaixli = 99.66 min/pile

	ai	Li	aixLi
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

Excavator Operation Time TD1 = Tc - 16.4 = 261.70 min/pile

Crawler Crane Operation Time TD2 = 0.9xTD1 = 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

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

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L009	Welder	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	25.00	0.00	0.00	0.00	25.00	25.00	
L019	Skilled Labor	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	20.15	0.00	0.00	0.00	20.15	20.15	
M02015	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	
M02002	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	8.43	7.03	7.03	14.05	2.0%
	Total									46.56	644.02	26.13	444.63	272.08	716.70	
	Components (%)									6.5%	89.9%	3.6%	62.0%	38.0%	100.0%	
	Unit Rate	each								46.57	644.28	26.14	444.81	272.19	717.00	

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

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

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L009	Welder	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	25.00	0.00	0.00	0.00	25.00	25.00	
L019	Skilled Labor	md	0.05	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	20.15	0.00	0.00	0.00	20.15	20.15	
M02015	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	
M02002	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	8.43	7.03	7.03	14.05	2.0%
	Total									46.56	644.02	26.13	444.63	272.08	716.70	
	Components (%)									6.5%	89.9%	3.6%	62.0%	38.0%	100.0%	
	Unit Rate	each								46.57	644.28	26.14	444.81	272.19	717.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
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	
M0225	Grout (non-shrink)	m3	0.78	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	22.76	2,294.71	61.52	1,457.61	921.39	2,379.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		256.37	769.11	1,538.21	1,281.84	1,281.84	2,563.69	2.0%
	Total									682.13	128,466.14	1,599.74	90,521.08	40,226.93	130,748.01	
	Components (%)									0.5%	98.3%	1.2%	69.2%	30.8%	100.0%	
	Unit Rate	each								6.83	1,287.14	16.03	906.96	403.04	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
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	
M0225	Grout (non-shrink)	m3	0.82	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	23.93	2,412.39	64.68	1,532.36	968.64	2,501.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		257.04	771.11	1,542.21	1,285.18	1,285.18	2,570.36	2.0%
	Total									683.97	128,797.28	1,606.89	90,747.18	40,340.95	131,088.14	
	Components (%)									0.5%	98.3%	1.2%	69.2%	30.8%	100.0%	
	Unit Rate	each								6.84	1,287.11	16.06	906.86	403.14	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
	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%	18.0%	60.0%	40.0%	60.0%		8,404.74	2,801.58	16,809.48	11,206.32	16,809.48	28,015.80	30.0%
	Total									36,900.74	16,706.58	67,794.48	52,921.32	68,480.48	121,401.80	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								36,778.61	16,651.29	67,570.10	52,746.17	68,253.83	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
	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%		8,521.74	2,840.58	17,043.48	11,362.32	17,043.48	28,405.80	30.0%
	Total									37,407.74	16,940.58	68,743.48	53,662.32	69,429.48	123,091.80	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								37,379.84	16,927.95	68,692.21	53,622.30	69,377.70	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
	Dynamic Pile Load Test for φ1500mm 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%		8,701.74	2,900.58	17,403.48	11,602.32	17,403.48	29,005.80	30.0%
	Total									38,187.74	17,300.58	70,203.48	54,802.32	70,889.48	125,691.80	
	Components (%)									30.4%	13.8%	55.9%	43.6%	56.4%	100.0%	
	Unit Rate	each								38,281.38	17,343.00	70,375.62	54,936.70	71,063.30	126,000.00	

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

SPL 400(23)c High Strain Dynamic Pile Test for φ800mm Bored Piles

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
	Dynamic Pile Load Test for φ800mm 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%		8,341.74	2,780.58	16,683.48	11,122.32	16,683.48	27,805.80	30.0%
	Total									36,627.74	16,580.58	67,283.48	52,522.32	67,969.48	120,491.80	
	Components (%)									30.4%	13.8%	55.8%	43.6%	56.4%	100.0%	
	Unit Rate	each								36,478.24	16,512.90	67,008.86	52,307.94	67,692.06	120,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
	Dynamic Pile Load Test for φ1500mm 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%		11,311.74	3,770.58	22,623.48	16,082.32	22,623.48	37,705.80	30.0%
	Total									49,497.74	22,520.58	91,373.48	71,332.32	92,059.48	163,391.80	
	Components (%)									30.3%	13.8%	55.9%	43.7%	56.3%	100.0%	
	Unit Rate	each								49,379.05	22,466.58	91,154.37	71,161.27	91,838.73	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	1.13	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	42.00	1,460.80	271.31	1,009.40	764.70	1,774.10	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.11	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	44.32	8.56	240.39	128.83	156.44	285.27	
W0237	Concrete Curing (reinforced concrete)	m3	1.11	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.49	0.36	0.83	0.65	4.02	4.67	
W0241	Formwork (reinforced concrete H≤4m)	m2	17.00	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	2,257.61	1,520.52	29.87	111.12	3,696.88	3,808.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	189.90	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	671.97	3,407.23	345.47	2,389.10	2,035.57	4,424.67	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	81.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	290.20	1,562.41	153.94	1,093.17	913.38	2,006.55	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,309.58	7,951.88	1,041.80	4,732.27	7,570.99	12,303.26	
	Components (%)									26.9%	64.6%	8.5%	38.5%	61.5%	100.0%	
	Unit Rate	m								330.87	794.98	104.15	473.10	756.90	1,230.00	

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

Unit: 180.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	44.27	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	1,645.27	57,229.70	10,628.93	39,545.21	29,958.69	69,503.90	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	43.40	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	1,732.77	21.87	9,399.16	5,037.02	6,116.78	11,153.80	
W0237	Concrete Curing (reinforced concrete)	m3	43.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	136.35	13.91	32.45	25.50	157.21	182.71	
W0241	Formwork (reinforced concrete H≤4m)	m2	340.90	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	45,271.77	30,498.92	598.91	2,228.27	74,133.33	76,361.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,786.50	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	13,398.66	67,938.35	6,888.44	47,637.27	40,588.18	88,225.45	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									62,184.83	155,694.74	27,547.89	94,473.27	150,954.19	245,427.46	
	Components (%)									25.3%	63.4%	11.2%	38.5%	61.5%	100.0%	
	Unit Rate	m								344.69	862.76	152.65	523.51	836.49	1,360.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.48	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	271.68	0.00	0.00	0.00	271.68	271.68	
L009	Welder	md	0.48	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	240.00	0.00	0.00	0.00	240.00	240.00	
L019	Skilled Labor	md	1.44	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	580.32	0.00	0.00	0.00	580.32	580.32	
L020	Unskilled Labor	md	0.96	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	301.44	0.00	0.00	0.00	301.44	301.44	
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	9,625.72	32,085.75	
M02041	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	282.24	
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	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	201.99	123.59	1,003.32	625.13	703.77	1,328.90	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	1.50	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	90.32	129.12	449.57	327.75	341.25	669.00	
	Miscellaneous	LS	1.00	20.0%	20.0%	60.0%	50.0%	50.0%		3,019.53	3,019.53	9,058.60	7,548.83	7,548.83	15,097.67	30.0%
	Total									4,705.28	48,708.52	12,009.42	40,796.95	24,626.28	65,423.23	
	Components (%)									7.2%	74.5%	18.4%	62.4%	37.6%	100.0%	
	Unit Rate	m								156.79	1,623.04	400.17	1,359.42	820.58	2,180.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	186.78	0.00	0.00	0.00	186.78	186.78	
L009	Welder	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	165.00	0.00	0.00	0.00	165.00	165.00	
L019	Skilled Labor	md	0.98	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	394.94	0.00	0.00	0.00	394.94	394.94	
L020	Unskilled Labor	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	204.10	0.00	0.00	0.00	204.10	204.10	
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	
M02041	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	194.04	
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	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	138.59	84.80	688.41	428.92	482.88	911.80	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	1.27	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	76.47	109.32	380.63	277.50	288.92	566.42	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	12,883.66	30.0%
	Total									1,165.88	39,680.78	2,098.87	28,426.15	14,519.38	55,829.19	
	Components (%)									2.1%	71.1%	3.8%	50.9%	26.0%	100.0%	
	Unit Rate	m								57.22	1,947.46	103.01	1,395.11	712.59	2,740.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	243.38	0.00	0.00	0.00	243.38	243.38	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
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	
W0225	Grout (non-shrink)	ml	0.09	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.63	264.77	7.10	168.19	106.31	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	2.47	14.4%	13.7%	71.9%	48.0%	52.0%	570.00	202.74	192.88	1,012.28	675.37	732.53	1,407.90	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,794.62	29,589.24	29,589.24	36,986.55	36,986.55	73,973.09	30.0%
	Total									16,390.56	273,550.89	30,608.62	208,282.90	112,267.17	320,550.07	
	Components (%)									5.1%	85.3%	9.5%	65.0%	35.0%	100.0%	
	Unit Rate	each								1,641.36	27,393.49	3,065.16	20,857.52	11,242.48	32,100.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	243.38	0.00	0.00	0.00	243.38	243.38	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
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)	m3	0.09	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.63	264.77	7.10	168.19	106.31	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	2.47	14.4%	13.7%	71.9%	48.0%	52.0%	570.00	202.74	192.88	1,012.28	675.37	732.53	1,407.90	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,794.62	29,589.24	29,589.24	36,986.55	36,986.55	73,973.09	30.0%
	Total									16,390.56	273,550.89	30,608.62	208,282.90	112,267.17	320,550.07	
	Components (%)									5.1%	85.3%	9.5%	65.0%	35.0%	100.0%	
	Unit Rate	each								1,641.36	27,393.49	3,065.16	20,857.52	11,242.48	32,100.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	243.38	0.00	0.00	0.00	243.38	243.38	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
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)	m3	0.09	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.63	264.77	7.10	168.19	106.31	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	2.47	14.4%	13.7%	71.9%	48.0%	52.0%	570.00	202.74	192.88	1,012.28	675.37	732.53	1,407.90	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,794.62	29,589.24	29,589.24	36,986.55	36,986.55	73,973.09	30.0%
	Total									16,390.56	273,550.89	30,608.62	208,282.90	112,267.17	320,550.07	
	Components (%)									5.1%	85.3%	9.5%	65.0%	35.0%	100.0%	
	Unit Rate	each								1,641.36	27,393.49	3,065.16	20,857.52	11,242.48	32,100.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	243.38	0.00	0.00	0.00	243.38	243.38	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
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)	m3	0.09	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.63	264.77	7.10	168.19	106.31	274.50	
R0602-002	Cargo truck 2.0-5.0t	hr	2.47	14.4%	13.7%	71.9%	48.0%	52.0%	570.00	202.74	192.88	1,012.28	675.37	732.53	1,407.90	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		14,794.62	29,589.24	29,589.24	36,986.55	36,986.55	73,973.09	30.0%
	Total									16,390.56	273,550.89	30,608.62	208,282.90	112,267.17	320,550.07	
	Components (%)									5.1%	85.3%	9.5%	65.0%	35.0%	100.0%	
	Unit Rate	each								1,641.36	27,393.49	3,065.16	20,857.52	11,242.48	32,100.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	181,386.02	0.00	0.00	0.00	181,386.02	181,386.02	
L009	Welder	md	1,281.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	640,950.00	0.00	0.00	0.00	640,950.00	640,950.00	
L010	Painter	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	0.00	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%	403.00	774,908.55	0.00	0.00	0.00	774,908.55	774,908.55	
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	1,056.86	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	67,068.34	188,850.31	1,509,037.55	940,831.08	824,125.12	1,764,956.20	
	Miscellaneous	LS	1.00	5.0%	30.0%	65.0%	50.0%	50.0%		1,821,033.73	10,926,202.39	23,673,438.51	18,210,337.31	18,210,337.31	36,420,674.63	40.0%
	Total									3,492,772.64	97,761,897.58	26,217,690.98	84,456,422.34	43,015,938.86	127,472,361.20	
	Components (%)									2.7%	76.7%	20.6%	66.3%	33.7%	100.0%	
	Unit Rate	kg								2.04	57.21	15.34	49.43	25.17	74.60	

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 =	10.52 hr/trip	
Welding Length	=	3.19 m/t	a : Loading Time =	1.00 hr	
y = α·(0.013·L +6.0), (9≦y≦17)			L : Haulage Distance =	119.00 km	
y : Daily Welding Capacity	=	17.00 m/day	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0501	Ground Assembly of Structural Steel Bridge Members	t	1,196.00	11.4%	3.1%	85.5%	48.2%	51.8%	1,260.00	172,385.97	46,266.68	1,288,307.35	727,029.21	779,930.79	1,506,960.00	
W0502	Erection of Structural Steel Bridge Members	t	1,707.90	10.8%	4.8%	84.4%	48.4%	51.6%	1,290.00	238,489.81	105,709.18	1,858,992.01	1,065,693.53	1,137,497.47	2,203,191.00	
W0503	Bolting of Structural Steel Bridge Members	each	27,326.00	4.4%	93.3%	2.3%	66.1%	33.9%	43.60	52,914.12	1,111,005.32	27,494.16	787,784.92	403,628.68	1,191,413.60	
W0504	Finish Painting of Structural Steel Bridge Members	m2	0.00	42.1%	48.8%	9.1%	36.3%	63.7%	132.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0505	Temporary Bent for Steel Bridge Erection	t	556.70	4.5%	91.4%	4.1%	48.3%	51.7%	16,000.00	401,074.32	8,141,120.73	365,004.95	4,302,905.73	4,604,294.27	8,907,200.00	
W0506	Site Welding for Steel Bridge	m	446.50	23.4%	34.6%	42.0%	44.5%	55.5%	3,120.00	325,635.25	481,997.47	585,447.28	619,321.12	773,758.88	1,393,080.00	
	Miscellaneous	LS	1.00	0.0%	35.0%	65.0%	55.0%	45.0%		0.00	1,596,193.68	2,964,359.70	2,508,304.36	2,052,249.02	4,560,553.38	30.0%
	Total									1,190,499.47	11,482,293.06	7,089,605.45	10,011,038.86	9,751,359.12	19,762,397.98	
	Components (%)									6.0%	58.1%	35.9%	50.7%	49.3%	100.0%	
	Unit Rate	kg								0.70	6.74	4.16	5.88	5.72	11.60	

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

403(8)a Bearing Shoe for Steel Plate Girder Type 1 (Max. R=250t) in Pampanga Bridge

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	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	232.06	0.00	0.00	0.00	232.06	232.06	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	660.92	0.00	0.00	0.00	660.92	660.92	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	128.74	0.00	0.00	0.00	128.74	128.74	
M09104	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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	85.59	105.81	1,364.70	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m3	0.06	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	1.75	176.52	4.73	112.12	70.88	183.00	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	65.0%	45.0%		0.00	2,937.61	2,937.61	3,231.37	2,643.85	5,875.22	2.0%
	Total									1,109.06	294,219.94	4,307.04	207,852.07	91,783.97	299,636.04	
	Components (%)									0.4%	98.2%	1.4%	69.4%	30.6%	100.0%	
	Unit Rate	each								1,110.40	294,577.32	4,312.27	208,104.54	91,895.46	300,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.

y = N/[02·a·(N+8)]			N: Total number of shoes	22	
y : Work capacity	=	2.44 each/day	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	232.06	0.00	0.00	0.00	232.06	232.06	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	660.92	0.00	0.00	0.00	660.92	660.92	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	128.74	0.00	0.00	0.00	128.74	128.74	
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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	85.59	105.81	1,364.70	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m3	0.07	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.04	205.94	5.52	130.81	82.69	213.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	7,667.91	7,667.91	8,434.70	6,901.12	15,335.83	2.0%
	Total									1,109.35	771,979.66	9,038.13	544,174.09	237,953.06	782,127.15	
	Components (%)									0.1%	98.7%	1.2%	69.6%	30.4%	100.0%	
	Unit Rate	each								1,109.17	771,854.17	9,036.67	544,085.63	237,914.37	782,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.

v = N/[02·a·(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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	232.06	0.00	0.00	0.00	232.06	232.06	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	660.92	0.00	0.00	0.00	660.92	660.92	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	128.74	0.00	0.00	0.00	128.74	128.74	
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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	85.59	105.81	1,364.70	808.57	747.53	1,556.10	
W0225	Grout (non-shrink)	m3	0.07	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	2.04	205.94	5.52	130.81	82.69	213.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	7,667.91	7,667.91	8,434.70	6,901.12	15,335.83	2.0%
	Total									1,109.35	771,979.66	9,038.13	544,174.09	237,953.06	782,127.15	
	Components (%)									0.1%	98.7%	1.2%	69.6%	30.4%	100.0%	
	Unit Rate	each								1,109.17	771,854.17	9,036.67	544,085.63	237,914.37	782,000.00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc.

v = N/[02·a·(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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	566.00	322.62	0.00	0.00	0.00	322.62	322.62	
L009	Welder	md	1.91	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	955.00	0.00	0.00	0.00	955.00	955.00	
L019	Skilled Labor	md	1.91	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	769.73	0.00	0.00	0.00	769.73	769.73	
L020	Unskilled Labor	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	298.30	0.00	0.00	0.00	298.30	298.30	
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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	6.98	8.63	111.25	65.91	60.94	126.85	
R0601-006	Dump Truck, 6.0-9.0 cu yds (4.6-6.9m3)	hr	1.87	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	112.76	201.84	813.01	572.58	555.03	1,127.61	
	Miscellaneous	LS	1.00	10.0%	35.0%	55.0%	50.0%	50.0%		1,345.37	4,708.79	7,399.53	6,726.84	6,726.84	13,453.68	30.0%
	Total									3,810.76	45,488.66	8,999.87	36,108.99	22,190.30	58,299.29	
	Components (%)									6.5%	78.0%	15.4%	61.9%	38.1%	100.0%	
	Unit Rate	m2								381.08	4,548.92	900.00	3,610.94	2,219.06	5,830.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	769.49	1,154.23	1,058.05	865.68	1,923.72	9.0%
	Total									3,538.30	17,941.04	1,819.09	12,579.97	10,718.45	23,298.42	
	Components (%)									15.2%	77.0%	7.8%	54.0%	46.0%	100.0%	
	Unit Rate	kg								3.54	17.94	1.82	12.58	10.72	23.30	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	808.01	1,212.01	1,111.01	909.01	2,020.02	9.0%
	Total									3,538.30	19,049.56	1,876.87	13,328.43	11,136.29	24,464.72	
	Components (%)									14.5%	77.9%	7.7%	54.5%	45.5%	100.0%	
	Unit Rate	kg								3.64	19.08	1.88	13.35	11.15	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	10.20	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	379.08	13,185.97	2,448.95	9,111.39	6,902.61	16,014.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0241	Formwork (reinforced concrete H<4m)	m2	49.20	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	6,533.80	4,400.57	86.44	321.59	10,699.21	11,020.80	
W0441	Temporary Frame Support Installation & Removal	m3	20.00	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	618.97	41.16	389.87	236.32	813.68	1,050.00	
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									7,962.52	18,046.86	5,114.25	11,049.14	20,074.48	31,123.62	
	Components (%)									25.6%	58.0%	16.4%	35.5%	64.5%	100.0%	
	Unit Rate	m3								795.65	1,803.32	511.04	1,104.08	2,005.92	3,110.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	10.20	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	379.08	13,185.97	2,448.95	9,111.39	6,902.61	16,014.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0241	Formwork (reinforced concrete H<4m)	m2	14.90	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	1,978.73	1,332.69	26.18	97.39	3,240.21	3,337.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,788.48	14,526.91	4,648.31	10,375.26	11,588.44	21,963.70	
	Components (%)									12.7%	66.1%	21.2%	47.2%	52.8%	100.0%	
	Unit Rate	m3								279.31	1,455.09	465.60	1,039.24	1,160.76	2,200.00	

405(1)e 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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	10.20	2.2%	83.5%	14.3%	57.1%	42.9%	1,640.00	374.63	13,960.31	2,393.06	9,543.98	7,184.02	16,728.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0441	Temporary Frame Support Installation & Removal	m3	102.30	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	3,166.04	210.52	1,994.19	1,208.78	4,161.97	5,370.75	
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 HK4m)	m2	50.10	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	6,653.32	4,481.07	88.02	327.48	10,894.92	11,222.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									10,624.66	23,164.07	6,821.67	14,585.29	26,025.12	40,610.41	
	Components (%)									26.2%	57.0%	16.8%	35.9%	64.1%	100.0%	
	Unit Rate	m3								1,062.19	2,315.81	681.99	1,458.16	2,601.84	4,060.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	10.20	2.2%	83.5%	14.3%	57.1%	42.9%	1,640.00	374.63	13,960.31	2,393.06	9,543.98	7,184.02	16,728.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0411	Temporary Struts & Supports Installation	t	2.60	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	1,216.94	341.99	2,055.07	1,332.88	2,281.12	3,614.00	
W0412	Temporary Struts & Supports Removal	t	2.60	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	759.53	196.26	1,194.41	768.44	1,381.76	2,150.20	
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 HK4m)	m2	42.60	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	5,657.31	3,810.25	74.84	278.45	9,263.95	9,542.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									8,439.09	23,199.85	7,890.67	15,531.62	23,997.88	39,529.50	
	Components (%)									21.3%	58.7%	20.0%	39.3%	60.7%	100.0%	
	Unit Rate	m3								843.28	2,318.25	788.47	1,552.00	2,398.00	3,950.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	10.20	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	377.96	14,712.84	2,453.21	10,150.80	7,393.20	17,544.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0241	Formwork (reinforced concrete HK4m)	m2	13.10	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	1,739.69	1,171.70	23.01	85.63	2,848.77	2,934.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,548.31	15,892.78	4,649.40	11,402.90	11,687.60	23,090.50	
	Components (%)									11.0%	68.8%	20.1%	49.4%	50.6%	100.0%	
	Unit Rate	m3								254.94	1,589.93	465.13	1,140.76	1,169.24	2,310.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	10.20	2.0%	85.0%	12.9%	68.0%	42.0%	1,800.00	370.87	15,615.16	2,373.97	10,655.65	7,704.35	18,360.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0411	Temporary Struts & Supports Installation	t	2.90	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	1,357.36	381.45	2,292.19	1,486.67	2,544.33	4,031.00	
W0412	Temporary Struts & Supports Removal	t	2.90	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	847.16	218.91	1,332.23	857.10	1,541.20	2,398.30	
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 HK4m)	m2	49.20	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	6,533.80	4,400.57	86.44	321.59	10,699.21	11,020.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									9,539.87	26,070.53	8,259.01	17,210.60	26,657.80	43,868.40	
	Components (%)									21.7%	59.4%	18.8%	39.2%	60.8%	100.0%	
	Unit Rate	m3								954.67	2,608.93	826.40	1,722.30	2,667.70	4,390.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	10.20	2.8%	78.4%	18.8%	56.3%	43.7%	1,340.00	387.43	10,715.30	2,565.26	7,695.29	5,972.71	13,668.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10.00	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	400.37	4.18	1,725.45	924.78	1,205.22	2,130.00	
W0236	Concrete Curing (plain concrete)	m3	10.00	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	62.77	7.72	18.01	14.15	74.35	88.50	
W0241	Formwork (reinforced concrete H<4m)	m2	33.30	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	4,422.26	2,978.43	58.50	217.66	7,241.54	7,459.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									5,272.84	13,705.63	4,367.23	8,851.89	14,493.81	23,345.70	
	Components (%)									22.6%	58.7%	18.7%	37.9%	62.1%	100.0%	
	Unit Rate	m3								526.25	1,367.88	435.87	883.46	1,446.54	2,330.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0204	Concrete (Class C, 21MPa, max agg.12mm)	m3	10.20	2.2%	84.0%	13.8%	57.1%	42.9%	1,670.00	371.55	14,312.64	2,349.81	9,731.24	7,302.76	17,034.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	399.26	5.04	2,165.70	1,160.60	1,409.40	2,570.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0241	Formwork (reinforced concrete H<4m)	m2	25.80	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	3,426.26	2,307.61	45.33	168.64	5,610.56	5,779.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,228.48	16,628.50	4,568.32	11,066.36	14,358.94	25,425.30	
	Components (%)									16.6%	65.4%	18.0%	43.5%	56.5%	100.0%	
	Unit Rate	m3								422.43	1,661.20	456.38	1,105.53	1,434.47	2,540.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	10.20	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	373.24	18,574.57	2,370.19	12,457.68	8,860.32	21,318.00	Loss 2.0%
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	10.00	29.1%	0.2%	70.7%	37.9%	62.1%	508.00	1,478.72	9.96	3,591.32	1,925.70	3,154.30	5,080.00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.42	3.20	7.48	5.88	36.22	42.10	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	31.60	62.6%	21.6%	15.8%	11.4%	88.6%	468.00	9,260.29	3,191.11	2,337.40	1,686.37	13,102.43	14,788.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									11,143.67	21,778.84	8,306.39	16,075.63	25,153.27	41,228.90	
	Components (%)									27.0%	52.8%	20.1%	39.0%	61.0%	100.0%	
	Unit Rate	m3								1,113.59	2,176.36	830.06	1,606.44	2,513.56	4,120.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	509.40	0.00	0.00	0.00	509.40	509.40	
L005	Carpenter	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	2,131.20	0.00	0.00	0.00	2,131.20	2,131.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,444.40	0.00	0.00	0.00	1,444.40	1,444.40	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	10.20	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	373.24	18,574.57	2,370.19	12,457.68	8,860.32	21,318.00	Loss 2.0%
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.50	0.0%	0.0%	100.0%	53.1%	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	47.1%	33.6%	19.3%	13.6%	86.4%	283.00	5,869.36	4,185.43	2,397.19	1,699.09	10,752.91	12,452.00	
W0441	Temporary Frame Support Installation & Removal	m3	81.50	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	2,522.31	167.72	1,588.72	963.01	3,315.74	4,278.75	
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									13,494.73	26,515.89	7,589.11	17,567.92	30,031.81	47,599.73	
	Components (%)									28.4%	55.7%	15.9%	36.9%	63.1%	100.0%	
	Unit Rate	m3								1,349.48	2,651.60	758.92	1,756.80	3,003.20	4,760.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	10.20	2.6%	80.9%	16.6%	56.6%	43.4%	1,450.00	378.09	11,963.07	2,448.84	8,377.40	6,412.60	14,790.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10.00	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	400.37	4.18	1,725.45	924.78	1,205.22	2,130.00	
W0236	Concrete Curing (plain concrete)	m3	10.00	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	62.77	7.72	18.01	14.15	74.35	88.50	
W0243	Formwork (lean concrete)	m2	12.50	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	783.80	1,101.30	14.90	72.57	1,827.43	1,900.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,625.02	13,076.27	4,207.21	9,388.91	9,519.59	18,908.50	
	Components (%)									8.6%	69.2%	22.3%	49.7%	50.3%	100.0%	
	Unit Rate	m3								162.43	1,307.04	420.53	938.47	951.53	1,890.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	11.59	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	424.10	21,105.81	2,693.19	14,155.34	10,067.76	24,223.10	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	11.36	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	454.82	4.74	1,960.11	1,050.55	1,369.13	2,419.68	
W0237	Concrete Curing (reinforced concrete)	m3	11.36	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	35.69	3.64	8.50	6.67	41.16	47.83	
W0241	Formwork (reinforced concrete H<4m)	m2	62.46	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	8,294.73	5,586.57	109.73	408.27	13,582.77	13,991.04	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	761.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	2,692.83	13,654.06	1,384.42	9,574.00	8,157.30	17,731.30	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	959.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,398.12	18,294.87	1,802.51	12,800.40	10,695.10	23,495.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	40.80	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	2,622.11	51,931.65	118.24	36,035.63	18,636.37	54,672.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0555	Precast PC Girder Erection (20.0 ≦ W < 35.0 t)	t	28.40	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	925.90	220.47	4,902.83	2,808.54	3,240.66	6,049.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									20,456.26	148,697.16	13,397.22	105,357.85	77,192.80	182,550.65	
	Components (%)									11.2%	81.5%	7.3%	57.7%	42.3%	100.0%	
	Unit Rate	each								20,506.62	149,063.18	13,430.20	105,617.19	77,382.81	183,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	12.63	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	462.16	22,999.68	2,934.86	15,425.54	10,971.16	26,396.70	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	12.38	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	495.66	5.17	2,136.11	1,144.88	1,492.06	2,636.94	
W0237	Concrete Curing (reinforced concrete)	m3	12.38	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	38.90	3.97	9.26	7.27	44.85	52.12	
W0241	Formwork (reinforced concrete H<4m)	m2	68.53	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	9,100.83	6,129.49	128.40	447.94	14,902.78	15,350.72	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	804.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	2,844.98	14,425.57	1,462.65	10,114.98	8,618.22	18,733.20	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,045.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,702.85	19,935.49	1,964.15	13,948.30	11,654.20	25,602.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	44.88	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	2,884.32	57,124.82	130.06	39,639.20	20,500.00	60,139.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0555	Precast PC Girder Erection (20.0 ≦ W < 35.0 t)	t	30.95	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	1,009.04	240.27	5,343.04	3,060.71	3,531.64	6,592.35	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									22,146.69	158,759.81	14,518.22	112,307.26	83,117.47	196,424.73	
	Components (%)									11.3%	81.2%	7.4%	57.5%	42.5%	100.0%	
	Unit Rate	each								22,498.56	158,414.77	14,486.67	112,063.17	82,936.83	196,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	13.67	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	580.22	24,893.56	3,176.52	16,695.73	11,874.57	28,570.30	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.40	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	536.50	5.60	2,312.11	1,239.21	1,614.99	2,854.20	
W0237	Concrete Curing (reinforced concrete)	m3	13.40	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	42.10	4.29	10.02	7.87	48.54	56.41	
W0241	Formwork (reinforced concrete H<4m)	m2	74.65	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	9,913.57	6,676.88	131.15	487.94	16,233.66	16,721.60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	879.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	3,110.37	15,771.24	1,599.09	11,058.54	9,422.16	20,480.70	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,154.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4,089.08	22,014.89	2,169.03	15,403.19	12,869.81	28,273.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	48.96	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	3,146.53	62,317.98	141.88	43,242.76	22,363.64	65,606.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	24.48	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	1,467.63	26,379.07	60.50	18,291.21	9,615.99	27,907.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	1.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	467.05	18,951.11	181.84	14,251.10	5,348.90	19,600.00	
W0555	Precast PC Girder Erection (20.0 ≦ W < 35.0 t)	t	33.50	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	1,092.18	260.06	5,783.26	3,312.89	3,822.61	7,135.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									25,973.18	215,170.03	15,983.10	152,508.89	104,617.42	257,126.31	
	Components (%)									10.1%	83.7%	6.2%	59.3%	40.7%	100.0%	
	Unit Rate	each								25,960.42	215,064.33	15,975.24	152,433.97	104,566.03	257,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	14.19	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	519.24	25,840.50	3,297.36	17,330.83	12,326.27	29,657.10	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13.91	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	556.92	5.81	2,400.10	1,286.37	1,676.46	2,962.83	
W0237	Concrete Curing (reinforced concrete)	m3	13.91	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	43.70	4.46	10.40	8.17	50.39	58.56	
W0241	Formwork (reinforced concrete H<4m)	m2	77.71	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	10,319.94	6,950.57	136.53	507.95	16,899.09	17,407.04	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	918.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	3,248.38	16,470.99	1,670.04	11,549.19	9,840.21	21,389.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,177.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4,170.58	22,453.66	2,212.26	15,710.19	13,126.31	28,836.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	51.00	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	3,277.64	64,914.56	147.80	45,044.54	23,295.46	68,340.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	25.50	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	1,528.78	27,478.20	63.02	19,053.34	10,016.66	29,070.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	1.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	467.05	18,951.11	181.84	14,251.10	5,348.90	19,600.00	
W0555	Precast PC Girder Erection (20.0 ≦ W < 35.0 t)	t	34.78	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	1,133.91	270.00	6,004.24	3,439.47	3,968.67	7,408.14	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									26,874.09	221,235.21	16,541.27	156,699.59	107,950.98	264,650.57	
	Components (%)									10.2%	83.6%	6.3%	59.2%	40.8%	100.0%	
	Unit Rate	each								26,909.57	221,527.32	16,563.11	156,906.49	108,093.51	265,000.00	

406(1)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
				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%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	18.78	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	687.20	34,199.05	4,363.94	22,936.79	16,313.41	39,250.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.41	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	737.08	7.69	3,176.56	1,702.53	2,218.80	3,921.33	
W0237	Concrete Curing (reinforced concrete)	m3	18.41	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	57.84	5.90	13.77	10.82	66.69	77.51	
W0241	Formwork (reinforced concrete H<4m)	m2	94.89	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	12,601.46	8,487.19	166.71	620.24	20,635.12	21,255.36	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,156.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	4,090.55	20,741.25	2,103.01	14,543.43	12,391.37	26,934.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,471.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	5,212.34	28,062.31	2,764.85	19,634.40	16,405.10	36,039.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	61.20	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	3,933.17	77,897.48	177.36	54,053.45	27,954.55	82,008.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	61.20	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	3,669.08	65,947.68	151.24	45,728.03	24,039.97	69,768.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	46.03	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	1,275.13	308.88	15,769.30	8,765.05	8,588.26	17,353.31	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									34,805.90	311,455.00	29,468.12	225,015.36	150,713.65	375,729.01	
	Components (%)									9.3%	82.9%	7.8%	59.9%	40.1%	100.0%	
	Unit Rate	each								34,831.00	311,679.63	29,489.37	225,177.65	150,822.35	376,000.00	

406(1)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
				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%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	19.36	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	708.43	35,255.25	4,498.72	23,645.17	16,817.23	40,462.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.98	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	759.90	7.93	3,274.91	1,755.24	2,287.50	4,042.74	
W0237	Concrete Curing (reinforced concrete)	m3	18.98	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	59.63	6.08	14.19	11.15	68.76	79.91	
W0241	Formwork (reinforced concrete H<4m)	m2	97.95	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	13,007.83	8,760.88	172.08	640.24	21,300.56	21,940.80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,199.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	4,242.70	21,512.76	2,181.23	15,084.40	12,852.30	27,936.70	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,452.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	5,145.01	27,699.85	2,729.14	19,380.79	16,193.21	35,574.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	63.24	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	4,064.27	80,494.06	183.27	55,855.23	28,886.37	84,741.60	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	63.24	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	3,791.38	68,145.94	156.28	47,252.29	24,841.31	72,093.60	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	47.45	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	1,314.47	318.41	16,255.77	9,035.44	8,853.21	17,888.65	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									35,635.68	317,998.73	30,246.99	229,680.60	154,200.80	383,881.40	
	Components (%)									9.3%	82.8%	7.9%	59.8%	40.2%	100.0%	
	Unit Rate	each								35,646.69	318,096.98	30,256.33	229,751.56	154,248.44	384,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	21.52	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	787.47	39,188.69	5,000.64	26,283.26	18,693.54	44,976.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	21.10	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	841.78	8.81	3,640.70	1,951.29	2,543.01	4,494.30	
W0237	Concrete Curing (reinforced concrete)	m3	21.10	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	66.29	6.76	15.78	12.40	76.43	88.83	
W0241	Formwork (reinforced concrete H<4m)	m2	116.31	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	15,446.05	10,403.05	204.34	760.25	25,293.19	26,053.44	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	0.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	4,387.67	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	15,547.26	83,703.71	8,246.95	58,565.10	48,932.82	107,497.92	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	59.98	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	3,854.76	76,344.62	173.82	52,975.91	27,397.29	80,373.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	59.98	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	3,595.93	64,633.04	148.23	44,816.45	23,560.75	68,377.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≦ W < 60.0 t)	t	52.75	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	1,461.29	353.98	18,071.49	10,044.67	9,842.08	19,886.75	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									44,145.89	350,440.22	36,283.33	252,429.98	178,439.46	430,869.44	
	Components (%)									10.2%	81.3%	8.4%	58.6%	41.4%	100.0%	
	Unit Rate	each								44,159.26	350,546.41	36,294.32	252,506.47	178,493.53	431,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	21.62	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	791.13	39,370.80	5,023.88	26,405.40	18,780.40	45,185.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	21.20	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	848.79	8.85	3,657.96	1,960.54	2,555.06	4,515.60	
W0237	Concrete Curing (reinforced concrete)	m3	21.20	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	66.60	6.79	15.85	12.46	76.79	89.25	
W0241	Formwork (reinforced concrete H<4m)	m2	116.92	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	15,527.06	10,467.61	205.41	764.24	25,425.84	26,190.08	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	0.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	0.00	0.00	0.00	0.00	0.00	0.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	4,396.75	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	15,579.42	83,876.83	8,264.01	58,686.22	49,034.03	107,720.25	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	60.28	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	3,874.04	76,726.47	174.69	53,240.88	27,534.32	80,775.20	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	969.30	37,854.18	376.52	28,473.15	10,726.85	39,200.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	60.28	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	3,613.92	64,956.31	148.97	45,040.61	23,678.59	68,719.20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0556	Precast PC Girder Erection (35.0 ≦ W < 60.0 t)	t	53.00	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	1,468.21	355.66	18,157.13	10,092.27	9,888.73	19,981.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0
	Total									44,311.22	351,556.88	36,429.28	253,223.26	179,074.12	432,297.38	
	Components (%)									10.3%	81.3%	8.4%	58.6%	41.4%	100.0%	
	Unit Rate	each								44,280.74	351,315.04	36,484.22	253,049.07	178,950.93	432,000.00	

406(1)i Precast Prestressed Structural Concrete Members (AASHTO Girder TypeV L=33.5m), fabricated & erected

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	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	24.26	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	887.73	44,178.33	5,637.34	29,629.74	21,073.66	50,703.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	23.78	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	952.08	9.93	4,103.13	2,199.14	2,866.00	5,065.14	
W0237	Concrete Curing (reinforced concrete)	m3	23.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	74.71	7.62	17.78	13.97	86.14	100.11	
W0241	Formwork (reinforced concrete H4m)	m2	132.80	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	17,635.94	11,877.95	233.31	868.04	28,879.16	29,747.20	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,975.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	6,988.61	35,435.95	3,592.94	24,847.12	21,170.38	46,017.50	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,612.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	5,711.96	30,752.17	3,029.87	21,516.42	17,977.58	39,494.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	102.51	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	6,588.06	130,478.27	297.07	90,539.53	46,823.87	137,363.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	1,453.95	56,781.27	564.78	42,709.72	16,090.28	58,800.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	68.34	5.9%	93.9%	0.2%	65.0%	35.0%	934.00	3,769.38	59,921.38	138.80	41,495.97	22,333.59	63,829.56	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	2.00	3.0%	96.0%	1.1%	72.2%	27.8%	14,600.00	867.83	28,020.27	311.90	21,093.73	8,106.27	29,200.00	
W0556	Precast PC Girder Erection (35.0 ≦ W < 60.0 t)	t	59.45	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	1,646.89	398.94	20,366.82	11,320.49	11,092.16	22,412.65	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									47,215.78	397,903.27	38,334.92	286,279.14	197,174.82	483,453.96	
	Components (%)									9.8%	82.3%	7.9%	59.2%	40.8%	100.0%	
	Unit Rate	each								47,171.44	397,529.64	38,298.92	286,010.32	196,989.68	483,000.00	

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					Amount					Remarks
				Component (%)				Total (PP)	Component (PP)				Total (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%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	27.33	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,000.07	49,768.91	6,350.72	33,379.25	23,740.45	57,119.70	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	26.79	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,072.59	11.19	4,622.49	2,477.50	3,228.77	5,706.27	
W0237	Concrete Curing (reinforced concrete)	m3	26.79	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	84.17	8.59	20.03	15.74	97.05	112.79	
W0241	Formwork (reinforced concrete H4m)	m2	154.83	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	20,561.54	13,848.37	272.02	1,012.04	33,669.88	34,681.92	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1,936.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	6,850.60	34,736.20	3,521.99	24,356.47	20,752.33	45,108.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,677.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	5,942.28	31,992.18	3,152.05	22,384.01	18,702.49	41,086.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	107.10	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	6,883.04	136,320.58	310.37	94,593.54	48,920.46	143,514.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	1,453.95	56,781.27	564.78	42,709.72	16,090.28	58,800.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	71.40	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	4,280.59	76,938.96	176.45	53,349.36	28,046.64	81,396.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0557	Precast PC Girder Erection (60.0 ≦ W < 75.0 t)	t	66.98	6.2%	1.8%	92.0%	51.1%	48.9%	423.00	1,768.11	509.31	26,055.12	14,483.13	13,849.41	28,332.54	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									51,469.69	438,858.94	45,450.88	317,308.25	218,471.27	535,779.52	
	Components (%)									9.6%	81.9%	8.5%	59.2%	40.8%	100.0%	
	Unit Rate	each								51,490.87	439,039.54	45,469.59	317,438.82	218,561.18	536,000.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	28.04	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,026.05	51,061.85	6,515.71	34,246.41	24,357.19	58,603.60	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	27.49	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,100.62	11.48	4,743.27	2,542.23	3,313.14	5,855.37	
W0237	Concrete Curing (reinforced concrete)	m3	27.49	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	86.37	8.81	20.56	16.15	99.58	115.73	
W0241	Formwork (reinforced concrete HK4m)	m2	159.31	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	21,156.48	14,249.07	279.89	1,041.32	34,644.12	35,685.44	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	2,017.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	7,137.23	36,189.53	3,669.35	25,375.51	21,620.59	46,996.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,721.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	6,098.19	32,831.57	3,234.75	22,971.31	19,193.19	42,164.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	110.16	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	7,079.70	140,215.46	319.24	97,296.21	50,318.19	147,614.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	1,453.95	56,781.27	564.78	42,709.72	16,090.28	58,800.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	73.44	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	4,402.89	79,137.22	181.49	54,873.63	28,847.97	83,721.60	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	934.10	37,902.21	363.69	28,502.20	10,697.80	39,200.00	
W0557	Precast PC Girder Erection (60.0 ≦ W < 75.0 t)	t	68.73	6.2%	1.8%	92.0%	51.1%	48.9%	423.00	1,814.30	522.61	26,735.87	14,861.53	14,211.26	29,072.79	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									52,928.53	448,952.25	46,669.75	324,491.51	224,069.02	548,550.53	
	Components (%)									9.6%	81.8%	8.5%	59.2%	40.8%	100.0%	
	Unit Rate	each								52,971.90	449,320.11	46,708.00	324,747.39	224,252.61	549,000.00	

406(1)l 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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13.0%	87.0%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	32.18	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,177.54	58,600.93	7,477.72	39,302.76	27,953.44	67,256.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.55	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,263.17	13.18	5,443.80	2,917.69	3,802.46	6,720.15	
W0237	Concrete Curing (reinforced concrete)	m3	31.55	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	99.13	10.11	23.59	18.54	114.29	132.83	
W0241	Formwork (reinforced concrete HK4m)	m2	188.02	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	24,969.19	16,816.96	330.33	1,228.98	40,887.50	42,116.48	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,298.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	15,208.62	77,115.81	7,818.97	54,872.36	46,071.04	100,943.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,674.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	13,018.44	70,089.00	6,905.55	49,039.27	40,973.73	90,013.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	200.94	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	12,913.90	255,763.38	582.32	177,475.49	91,784.11	269,259.60	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	2,423.25	94,635.45	941.30	71,182.86	26,817.14	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≦ W < 80.0 t)	t	78.88	5.7%	1.8%	92.5%	51.1%	48.6%	430.00	1,947.93	612.34	31,358.13	17,435.22	16,483.18	33,918.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									73,659.83	573,698.34	60,922.90	412,718.47	295,562.59	708,281.06	
	Components (%)									10.4%	81.0%	8.6%	58.3%	41.7%	100.0%	
	Unit Rate	each								73,630.60	573,470.68	60,898.72	412,554.70	295,445.30	708,000.00	

406(1)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
				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%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	32.29	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,181.57	58,801.25	7,503.29	39,437.11	28,048.99	67,486.10	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.66	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,267.57	13.22	5,462.78	2,927.87	3,815.71	6,743.58	
W0237	Concrete Curing (reinforced concrete)	m3	31.66	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	99.47	10.15	23.67	18.60	114.69	133.29	
W0241	Formwork (reinforced concrete H<4m)	m2	188.74	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	25,064.81	16,881.36	331.59	1,233.69	41,044.07	42,277.76	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4,386.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	15,520.01	78,694.73	7,979.06	55,179.48	47,014.32	102,193.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3,572.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	12,657.02	68,143.15	6,713.84	47,677.81	39,836.19	87,514.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	201.71	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	12,963.39	256,743.46	584.55	178,155.58	92,135.82	270,291.40	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	2,423.25	94,635.45	941.30	71,182.86	26,817.14	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≦ W < 80.0 t)	t	79.15	5.7%	1.8%	92.5%	51.4%	48.6%	430.00	1,954.60	614.43	31,465.47	17,494.90	16,539.60	34,034.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									73,770.33	574,578.37	61,046.73	413,353.18	296,042.25	709,395.43	
	Components (%)									10.4%	81.0%	8.6%	58.3%	41.7%	100.0%	
	Unit Rate	each								73,729.21	574,258.09	61,012.70	413,122.77	295,877.23	709,000.00	

406(1)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
				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%	348.00	265.65	41.18	41.18	45.29	302.71	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	373.00	0.00	0.00	0.00	373.00	373.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	32.62	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,193.64	59,402.19	7,579.97	39,840.15	28,335.65	68,175.80	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.98	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,280.39	13.36	5,518.00	2,957.46	3,854.28	6,811.74	
W0237	Concrete Curing (reinforced concrete)	m3	31.98	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	100.48	10.25	23.91	18.79	115.85	134.64	
W0241	Formwork (reinforced concrete H<4m)	m2	190.92	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	25,354.31	17,076.35	335.42	1,247.94	41,518.14	42,766.08	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3,060.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	10,827.92	54,903.30	5,566.78	38,497.31	32,800.69	71,298.00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,895.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	6,714.74	36,150.97	3,561.79	25,293.80	21,133.70	46,427.50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	204.00	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	13,110.56	259,658.25	591.18	180,178.17	93,181.83	273,360.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5.00	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	2,423.25	94,635.45	941.30	71,182.86	26,817.14	98,000.00	
W0558	Precast PC Girder Erection (75.0 ≦ W < 80.0 t)	t	79.95	5.7%	1.8%	92.5%	51.4%	48.6%	430.00	1,974.35	620.64	31,783.50	17,671.72	16,706.78	34,378.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									63,618.29	522,511.93	55,943.04	376,933.49	265,139.77	642,073.26	
	Components (%)									9.9%	81.4%	8.7%	58.7%	41.3%	100.0%	
	Unit Rate	each								63,611.03	522,452.31	55,936.66	376,890.48	265,109.52	642,000.00	

406(1)p *Precast Prestressed Structural Concrete (PC Deck Slab, 210 x 2000 x 9950mm)* Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	27.78	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	1,016.53	50,588.38	6,455.29	33,928.86	24,131.34	58,060.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	27.24	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,098.61	11.38	4,780.13	2,519.11	3,283.01	5,802.12	
W0237	Concrete Curing (reinforced concrete)	m3	27.24	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	85.58	8.73	20.37	16.00	98.68	114.68	
W0241	Formwork (reinforced concrete H<4m)	m2	55.63	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	7,387.70	4,975.68	97.73	363.62	12,097.50	12,461.12	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	7,844.22	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	27,795.19	149,644.43	14,743.79	104,701.94	87,481.48	192,183.42	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	900.00	8.2%	91.6%	0.2%	62.8%	37.2%	216.00	15,924.01	178,055.46	420.53	122,038.06	72,361.94	194,400.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	90.45	4.9%	93.5%	1.7%	70.7%	29.3%	2,060.00	9,037.17	174,191.34	3,098.50	131,746.17	54,580.83	186,327.00	
W0551	Precast PC Girder Erection (W < 12.5t)	t	68.10	25.1%	3.9%	70.9%	41.1%	58.9%	218.00	3,731.68	583.75	10,530.37	6,106.79	8,739.01	14,845.80	
W0549	Secondary Concrete for Precast PC Deck Slab	m3	3.78	5.9%	75.8%	18.2%	55.4%	44.6%	2,080.00	467.47	5,962.70	1,432.22	4,357.24	3,505.16	7,862.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									66,535.96	564,021.85	41,498.93	405,777.78	266,278.96	672,056.74	
	Components (%)									9.9%	83.9%	6.2%	60.4%	39.6%	100.0%	
	Unit Rate	m2								665.30	5,639.74	414.95	4,057.44	2,662.56	6,720.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	1.00	11.5%	84.4%	4.1%	60.4%	39.6%	153,000.00	17,564.93	129,167.28	6,267.80	92,457.23	60,542.77	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	3.25	0.9%	92.1%	6.7%	71.0%	29.0%	12,900.00	393.99	38,736.01	2,795.00	29,750.76	12,174.24	41,925.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	3.25	6.3%	87.5%	8.2%	68.3%	31.7%	9,560.00	1,956.56	27,197.95	1,915.49	21,231.75	9,838.25	31,070.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									19,915.48	195,101.23	10,978.29	143,439.74	82,555.26	225,995.00	
	Components (%)									8.8%	86.3%	4.9%	63.5%	36.5%	100.0%	
	Unit Rate	kg								19.92	195.11	10.98	143.44	82.56	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	1.00	11.2%	84.7%	4.1%	60.6%	39.4%	152,000.00	17,052.66	128,707.70	6,239.65	92,129.09	59,870.91	152,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	26.77	5.0%	86.7%	8.3%	67.1%	32.9%	1,680.00	2,263.34	38,998.15	3,712.11	30,176.64	14,796.96	44,973.60	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	26.77	40.1%	23.4%	36.5%	34.6%	65.4%	823.00	8,824.97	5,159.99	8,046.75	7,620.41	14,411.30	22,031.71	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									28,140.97	172,865.84	17,998.50	129,926.14	89,079.17	219,005.31	
	Components (%)									12.8%	78.9%	8.2%	59.3%	40.7%	100.0%	
	Unit Rate	kg								28.14	172.86	18.00	129.92	89.08	219.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	1.00	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	8,924.58	142,971.83	5,103.59	101,781.65	55,218.35	157,000.00	
W0682	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Transversal)	each	29.12	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	1,287.60	48,511.62	2,907.98	37,110.71	15,596.49	52,707.20	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	29.12	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	8,564.14	37,437.61	6,414.24	31,378.83	21,037.17	52,416.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									18,776.32	228,921.06	14,425.82	170,271.19	91,852.01	262,123.20	
	Components (%)									7.2%	87.3%	5.5%	65.0%	35.0%	100.0%	
	Unit Rate	kg								18.77	228.81	14.42	170.19	91.81	262.00	

Total weight of PC cables = 4,669.8 kg Total numbers of cables = 136

406(3)d Prestressing Bar φ32mm for PC Box Girders of Angat Bridge, Vertical in Webs — Unit: 1,000.00 kg

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	1.00	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	8,924.58	142,971.83	5,103.59	101,781.65	55,218.35	157,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	61.38	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	2,714.04	102,254.22	6,129.53	78,223.05	32,874.75	111,097.80	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	61.38	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	18,051.75	78,912.11	13,520.13	66,141.23	44,342.77	110,484.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									29,690.38	324,138.17	24,753.26	246,145.93	132,435.87	378,581.80	
	Components (%)									7.8%	85.6%	6.5%	65.0%	35.0%	100.0%	
	Unit Rate	kg								29.72	324.50	24.78	246.42	132.59	379.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	1.00	11.5%	84.4%	4.1%	60.4%	39.6%	153,000.00	17,564.93	129,167.28	6,267.80	92,457.23	60,542.77	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.42	0.9%	92.4%	6.7%	71.0%	29.0%	12,900.00	172.14	16,924.66	1,221.20	12,998.79	5,319.21	18,318.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.42	6.3%	87.5%	6.2%	68.3%	31.7%	9,560.00	854.87	11,883.41	836.92	9,276.64	4,298.56	13,575.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									18,591.94	157,975.34	8,325.92	114,732.67	70,160.53	184,893.20	
	Components (%)									10.1%	85.4%	4.5%	62.1%	37.9%	100.0%	
	Unit Rate	kg								18.60	158.07	8.33	114.80	70.20	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
M09001	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	
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	905.74	1,358.61	1,245.39	1,018.96	2,264.35	2.0%
	Total									3,217.60	110,905.74	1,358.61	72,745.39	42,736.56	115,481.95	
	Components (%)									2.8%	96.0%	1.2%	63.0%	37.0%	100.0%	
	Unit Rate	each								320.42	11,044.29	135.29	7,244.18	4,255.82	11,500.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
M09002	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	
M02011	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	
M02015	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	
M02001	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	
M09013	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	1,506.88	2,260.31	2,071.95	1,695.24	3,767.19	2.0%
	Total									3,217.60	186,648.74	2,260.31	122,742.83	69,383.82	192,126.65	
	Components (%)									1.7%	97.1%	1.2%	63.9%	36.1%	100.0%	
	Unit Rate	each								321.55	18,652.57	225.88	12,266.19	6,933.81	19,200.00	

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

407(1)c Elastomeric Bearing Pad, Duro 60 (600x350x50mm) Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
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	1,683.97	2,525.96	2,315.46	1,894.47	4,209.93	2.0%
	Total									3,217.60	208,963.09	2,525.96	137,452.93	77,259.73	214,706.65	
	Components (%)									1.5%	97.3%	1.2%	64.0%	36.0%	100.0%	
	Unit Rate	each								322.20	20,924.86	252.94	13,764.07	7,735.93	21,500.00	

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

407(1)d Elastomeric Bearing Pad, Duro 60 (600x700x89mm) Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
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	6,679.31	10,018.96	9,184.05	7,514.22	16,698.27	2.0%
	Total									3,217.60	838,375.17	10,018.96	555,281.97	296,329.76	851,611.73	
	Components (%)									0.4%	98.4%	1.2%	65.2%	34.8%	100.0%	
	Unit Rate	each								321.91	83,875.74	1,002.35	55,553.51	29,646.49	85,200.00	

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

407(1)e Elastomeric Bearing Pad, Duro 60 (600x400x60mm) Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
M09005	Laminated Elastomeric Bearing Pad (600x400x50mm)	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	2,356.85	3,535.28	3,240.67	2,651.46	5,892.13	2.0%
	Total									3,217.60	293,745.73	3,535.28	193,864.08	106,634.53	300,498.61	
	Components (%)									1.1%	97.8%	1.2%	64.5%	35.5%	100.0%	
	Unit Rate	each								321.23	29,325.83	352.94	19,354.24	10,645.76	30,000.00	

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						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%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
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	1,653.35	2,480.03	2,273.36	1,860.02	4,133.39	2.0%
	Total									3,217.60	205,105.09	2,480.03	136,253.67	74,549.06	210,802.73	
	Components (%)									1.5%	97.3%	1.2%	64.6%	35.4%	100.0%	
	Unit Rate	each								322.06	20,529.70	248.24	13,638.12	7,461.88	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						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%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
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	1,185.74	1,778.61	1,630.39	1,333.96	2,964.35	2.0%
	Total									3,217.60	146,185.74	1,778.61	95,880.39	55,301.56	151,181.95	
	Components (%)									2.1%	96.7%	1.2%	63.4%	36.6%	100.0%	
	Unit Rate	each								321.37	14,600.98	177.65	9,576.50	5,523.50	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						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%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	886.60	
L020	Unskilled Labor	md	4.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,538.60	0.00	0.00	0.00	1,538.60	1,538.60	
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	2,205.35	3,308.03	3,032.36	2,481.02	5,513.39	2.0%
	Total									3,217.60	274,657.09	3,308.03	181,862.67	99,320.06	281,182.73	
	Components (%)									1.1%	97.7%	1.2%	64.7%	35.3%	100.0%	
	Unit Rate	each								321.55	27,447.86	330.59	18,174.45	9,925.55	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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	
W0225	Grout (non-shrink)	m3	0.36	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	10.51	1,059.10	28.40	672.74	425.26	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%		12,943.31	38,829.94	77,659.88	71,188.23	58,244.91	129,433.14	2.0%
	Total									17,162.82	6,506,239.04	77,688.28	4,274,988.47	2,326,101.67	6,601,090.14	
	Components (%)									0.3%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								171.60	65,051.65	776.75	42,742.82	23,257.18	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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	
W0225	Grout (non-shrink)	m3	0.39	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	11.38	1,147.36	30.76	728.80	460.70	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%		14,905.60	44,716.79	89,433.58	81,980.78	67,075.19	149,055.97	2.0%
	Total									19,125.98	7,493,264.15	89,464.34	4,923,519.59	2,678,334.88	7,601,854.47	
	Components (%)									0.3%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								191.21	74,914.36	894.43	49,223.18	26,776.82	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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	
W0225	Grout (non-shrink)	m3	0.82	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	23.93	2,412.39	64.68	1,532.36	968.64	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%		18,794.82	56,384.46	112,768.92	103,371.51	84,576.69	187,948.20	2.0%
	Total									23,027.75	9,449,496.85	112,833.60	6,208,858.87	3,376,499.33	9,585,358.20	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								230.39	94,540.73	1,128.88	62,118.66	33,781.34	95,900.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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	
W0225	Grout (non-shrink)	m3	0.54	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	15.76	1,588.65	42.59	1,009.11	637.89	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%		21,430.96	64,292.89	128,585.77	117,870.29	96,439.33	214,309.62	2.0%
	Total									25,655.72	10,775,506.53	128,628.37	7,080,135.65	3,849,654.97	10,929,790.62	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								255.86	107,461.36	1,282.78	70,608.38	38,391.62	109,000.00	

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

407(2)e Expansion Joint, Multiflex M200 (Elastomeric)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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%	96.5%	2.6%	61.3%	38.7%	3,050.00	46.70	4,707.10	126.20	2,989.97	1,890.03	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%		24,439.08	73,317.23	146,634.47	134,414.93	109,975.85	244,390.78	2.0%
	Total									28,694.78	12,288,474.33	146,760.67	8,074,197.39	4,389,732.39	12,463,929.78	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								287.78	123,240.37	1,471.85	80,975.64	44,024.36	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
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%	96.5%	2.6%	61.3%	38.7%	3,050.00	64.50	6,501.68	174.32	4,129.89	2,610.61	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%		50,050.10	150,150.30	300,300.59	275,275.54	225,225.45	500,500.99	2.0%
	Total									54,323.60	25,170,751.98	300,474.91	16,538,570.43	8,986,980.06	25,525,550.49	
	Components (%)									0.2%	98.6%	1.2%	64.8%	35.2%	100.0%	
	Unit Rate	m								542.69	251,455.57	3,001.74	165,220.16	89,779.84	255,000.00	

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

407(2)g Expansion Joint, 30mmfor bridge sidewalk

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
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	44.14	103.00	80.93	66.21	147.14	1.0%
	Total									1,600.00	13,157.80	103.00	7,949.12	6,911.68	14,860.80	
	Components (%)									10.8%	88.5%	0.7%	53.5%	46.5%	100.0%	
	Unit Rate	m								16.04	131.93	1.03	79.70	69.30	149.00	

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

SPL 407(3)a Restraining Bar φ32 x 1495mm

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,500.00	0.00	0.00	0.00	1,500.00	1,500.00	
L019	Skilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,450.80	0.00	0.00	0.00	1,450.80	1,450.80	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80	
M09313	PC Tendon, φ32	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, φ50	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	1,372.09	3,201.54	2,515.49	2,058.13	4,573.63	8.0%
	Total									3,981.20	54,561.22	3,201.54	38,151.63	23,592.33	61,743.96	
	Components (%)									6.4%	88.4%	5.2%	61.8%	38.2%	100.0%	
	Unit Rate	each								397.84	5,452.24	319.93	3,812.45	2,357.55	6,170.00	

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

SPL 407(3)b Restraining Bar φ32 x 1900mm

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,500.00	0.00	0.00	0.00	1,500.00	1,500.00	
L019	Skilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,450.80	0.00	0.00	0.00	1,450.80	1,450.80	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80	
M09313	PC Tendon, φ32	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, φ50	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	1,463.96	3,415.91	2,683.93	2,195.94	4,879.87	8.0%
	Total									3,981.20	58,481.18	3,415.91	40,992.49	24,885.80	65,878.29	
	Components (%)									6.0%	88.8%	5.2%	62.2%	37.8%	100.0%	
	Unit Rate	each								398.25	5,850.05	341.70	4,100.60	2,489.40	6,590.00	

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

SPL 407(3)c Restraining Cable φ65 x 4121mm (PC 7-T15.2)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L009	Welder	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,950.00	0.00	0.00	0.00	1,950.00	1,950.00	
L019	Skilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,062.80	0.00	0.00	0.00	3,062.80	3,062.80	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,444.40	0.00	0.00	0.00	1,444.40	1,444.40	
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, φ65	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	11,543.44	7,695.62	10,581.48	8,657.58	19,239.06	8.0%
	Total									7,193.00	244,838.69	7,695.62	171,034.23	88,693.08	259,727.31	
	Components (%)									2.8%	94.3%	3.0%	65.9%	34.1%	100.0%	
	Unit Rate	each								720.06	24,509.57	770.37	17,121.38	8,878.62	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 φ65 x 4224mm (PC 7-T15.2)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L009	Welder	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,950.00	0.00	0.00	0.00	1,950.00	1,950.00	
L019	Skilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,062.80	0.00	0.00	0.00	3,062.80	3,062.80	
L020	Unskilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,444.40	0.00	0.00	0.00	1,444.40	1,444.40	
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, φ65	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	9,856.67	6,571.11	9,035.28	7,392.50	16,427.79	8.0%
	Total									7,193.00	208,010.99	6,571.11	144,883.04	76,892.07	221,775.11	
	Components (%)									3.2%	93.8%	3.0%	65.3%	34.7%	100.0%	
	Unit Rate	each								720.03	20,822.19	657.76	14,503.80	7,697.00	22,200.80	

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

407(4) G.I. Drain Pipe φ150mm for Bridge Drainage

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	219.80	0.00	0.00	0.00	219.80	219.80	
M08709	Steel Gas Pipe, φ150	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	73.78	172.15	135.26	110.66	245.92	3.0%
	Total									889.50	7,381.68	172.15	4,543.79	3,899.53	8,443.32	
	Components (%)									10.5%	87.4%	2.0%	53.8%	46.2%	100.0%	
	Unit Rate	m								88.92	737.88	17.21	454.20	389.80	844.00	

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 Angat Bridge

Unit: 1,344.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0601	Pier Protection Concrete Block Type A Production & Laying	each	112.00	14.4%	63.1%	22.6%	50.3%	49.7%	3,010.00	48,376.90	212,592.52	76,150.58	169,516.57	167,603.43	337,120.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	32.00	14.8%	62.7%	22.6%	50.1%	49.9%	2,870.00	13,559.85	57,549.67	20,730.48	45,970.25	45,869.75	91,840.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	160.00	14.8%	62.5%	22.8%	50.0%	50.0%	2,830.00	66,846.18	282,835.53	103,118.29	226,389.04	226,410.96	452,800.00	
W0611	Stone Laying	m3	403.50	9.9%	14.3%	75.8%	47.5%	52.5%	378.00	15,035.54	21,830.38	115,657.08	72,505.98	80,017.02	152,523.00	
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%		1,049.15	3,147.44	6,294.88	6,245.73	5,245.73	10,491.46	1.0%
	Total									144,867.62	592,818.79	321,951.30	530,031.84	529,605.86	1,059,637.70	
	Components (%)									13.7%	55.9%	30.4%	50.0%	50.0%	100.0%	
	Unit Rate	m2								107.73	440.85	239.42	394.16	393.84	788.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0601	Pier Protection Concrete Block Type A Production & Laying	each	70.00	14.4%	63.1%	22.6%	50.3%	49.7%	3,010.00	30,235.56	132,870.33	47,594.11	105,947.86	104,752.14	210,700.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	20.00	14.8%	62.7%	22.6%	50.1%	49.9%	2,870.00	8,474.91	35,968.55	12,956.55	28,731.41	28,668.59	57,400.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	100.00	14.8%	62.5%	22.8%	50.0%	50.0%	2,830.00	41,778.86	176,772.20	64,448.93	141,493.15	141,506.85	283,000.00	
W0611	Stone Laying	m3	254.10	9.9%	14.3%	75.8%	47.5%	52.5%	378.00	9,468.48	13,747.46	72,833.86	45,659.90	50,389.90	96,049.80	
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%		656.44	1,969.32	3,938.65	3,282.20	3,282.20	6,564.41	1.0%
	Total									90,614.25	370,619.02	201,772.10	331,618.33	331,387.04	663,005.37	
	Components (%)									13.7%	55.9%	30.4%	50.0%	50.0%	100.0%	
	Unit Rate	m2								107.83	441.05	240.12	394.64	394.36	789.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0601	Pier Protection Concrete Block Type A Production & Laying	each	24.00	14.4%	63.1%	22.6%	50.3%	49.7%	3,010.00	10,366.48	45,555.54	16,317.98	36,324.98	35,915.02	72,240.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	104.00	14.8%	62.7%	22.6%	50.1%	49.9%	2,870.00	44,069.51	187,036.44	67,374.85	149,403.31	149,076.69	298,480.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	88.00	14.8%	62.5%	22.8%	50.0%	50.0%	2,830.00	36,765.40	155,559.54	56,715.06	124,513.97	124,526.03	249,040.00	
W0611	Stone Laying	m3	262.80	9.9%	14.3%	75.8%	47.5%	52.5%	378.00	9,792.66	14,218.15	75,327.59	47,223.23	52,115.17	99,338.40	
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%		731.49	2,194.46	4,388.91	3,657.43	3,657.43	7,314.86	1.0%
	Total									101,725.54	416,950.89	220,123.59	369,793.65	369,006.36	738,800.01	
	Components (%)									13.8%	56.4%	29.8%	50.1%	49.9%	100.0%	
	Unit Rate	m2								113.59	465.60	245.81	412.94	412.06	825.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0121	Borrow Soil, transported	m3	0.00	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 20.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	0.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610 (24")	m	0.00	10.2%	68.8%	20.9%	53.6%	46.4%	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0342	Precast Concrete Pipe Laying φ610 (24")	m	0.00	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0352	Precast Concrete Pipe Removal φ610 (24")	m	0.00	44.9%	6.1%	49.1%	30.1%	69.9%	75.30	0.00	0.00	0.00	0.00	0.00	0.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ910 (36")	m	0.00	10.8%	68.8%	20.4%	53.5%	46.5%	2,620.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0344	Precast Concrete Pipe Laying φ910 (36")	m	0.00	31.0%	8.6%	60.4%	37.7%	62.3%	613.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0354	Precast Concrete Pipe Removal φ910 (36")	m	0.00	30.7%	6.4%	62.8%	37.9%	62.1%	158.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42")	m	0.00	11.2%	69.0%	19.8%	53.5%	46.5%	3,940.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0345	Precast Concrete Pipe Laying φ1070 (42")	m	0.00	31.4%	8.6%	60.0%	37.4%	62.6%	590.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0355	Precast Concrete Pipe Removal φ1070 (42")	m	0.00	31.2%	6.4%	62.4%	37.6%	62.4%	182.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48")	m	0.00	10.8%	68.8%	20.5%	53.5%	46.5%	4,290.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0346	Precast Concrete Pipe Laying φ1220 (48")	m	0.00	31.2%	8.6%	60.2%	37.6%	62.4%	661.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0356	Precast Concrete Pipe Removal φ1220 (48")	m	0.00	30.9%	6.4%	62.7%	37.8%	62.2%	204.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0105	Excavation, Backhoe 0.6m3	m3	0.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	0.00	0.00	0.00	0.00	0.00	0.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		0.00	0.00	0.00	0.00	0.00	0.00	1.0%
	Total									0.00	0.00	0.00	0.00	0.00	0.00	
	Components (%)									0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Unit Rate	L.S.								0.00	0.00	0.00	0.00	0.00	0.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0105	Excavation, Backhoe 0.6m3	m3	1,359.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	2,445.66	4,668.98	48,468.46	29,391.60	26,191.50	55,583.10	
W0121	Borrow Soil, transported	m3	4,460.40	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	65,391.18	211,164.45	673,509.57	459,802.71	490,262.49	950,065.20	Loss 20.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	3,717.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	3,122.28	17,068.46	187,961.26	113,239.43	94,912.57	208,152.00	
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	0.00	2.8%	78.4%	18.8%	56.3%	43.7%	1,340.00	0.00	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%	224.00	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%	8.85	0.00	0.00	0.00	0.00	0.00	0.00	
W0240	Formwork (plain concrete H≤4m)	m2	0.00	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0741	Grouted Riprap Class A	m3	0.00	15.6%	63.8%	20.6%	48.0%	52.0%	734.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	40.0%	60.0%		5,462.10	14,565.60	16,386.30	14,565.60	21,848.41	36,414.01	3.0%
	Total									76,421.21	247,467.50	926,325.60	616,999.34	633,214.97	1,250,214.31	
	Components (%)									6.1%	19.8%	74.1%	49.4%	50.6%	100.0%	
	Unit Rate	L.S.								76,408.11	247,425.08	926,166.81	616,893.58	633,106.42	1,250,000.00	

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

SPL 420(3) False Works Required for Cantilever Construction for PC Box Girdor (Angat River) 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		
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m3	5.10	34.3%	17.8%	47.9%	35.4%	64.6%	426.00	745.60	385.81	1,041.20	768.18	1,404.42	2,172.60	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	299.20	24.4%	44.6%	31.0%	39.2%	60.8%	7,840.00	571,320.06	1,046,168.85	728,239.09	919,258.08	1,426,469.92	2,345,728.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m3	1,293.20	29.2%	30.0%	40.8%	37.5%	62.5%	172.00	64,889.39	66,813.69	90,727.32	83,394.92	139,035.48	222,430.40	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	42.20	24.6%	29.2%	46.2%	39.9%	60.1%	8,330.00	86,420.07	102,619.29	162,486.64	140,113.23	211,412.77	351,526.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m3	185.10	28.0%	28.7%	43.3%	38.0%	62.0%	179.00	9,286.47	9,506.81	14,339.62	12,585.02	20,547.88	33,132.90	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m3	3,622.50	21.4%	40.6%	38.0%	41.2%	58.8%	93.90	72,641.60	138,142.18	129,368.96	140,247.72	199,905.03	340,152.75	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m3	530.60	29.7%	28.8%	41.5%	37.3%	62.7%	169.00	26,651.49	25,835.69	37,184.22	33,409.30	56,262.10	89,671.40	
W0661	Assembly & Disassembly of Form Traveler	set	12.00	23.4%	17.7%	58.9%	41.0%	59.0%	335,000.00	939,626.63	713,336.13	2,367,037.24	1,648,909.10	2,371,090.90	4,020,000.00	
W0662	Form Traveler Shifting	time	96.00	78.7%	12.8%	8.5%	10.6%	89.4%	2,080.00	157,228.35	25,470.99	16,980.66	21,225.83	178,454.17	199,680.00	
W0663	Form Traveler Lifting	time	96.00	100.0%	0.0%	0.0%	0.0%	100.0%	4,980.00	478,080.00	0.00	0.00	0.00	478,080.00	478,080.00	
W0664	Form Traveler Pulling Back	m	376.00	100.0%	0.0%	0.0%	0.0%	100.0%	114.00	42,864.00	0.00	0.00	0.00	42,864.00	42,864.00	
Q1521-B14	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	5.6%	40.0%	55.0%	50.0%	50.0%		31,388.54	251,108.30	345,273.92	313,886.38	313,885.38	627,770.76	2.0%
	Total									2,481,142.20	2,379,387.74	27,155,778.87	17,491,897.11	14,524,411.70	32,016,308.81	
	Components (%)									7.7%	7.4%	84.8%	54.6%	45.4%	100.0%	
	Unit Rate	L.S.								2,479,878.33	2,378,175.70	27,141,945.97	17,482,986.90	14,517,013.10	32,000,000.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	70,033.08	92,533.52	521,356.91	341,371.02	342,552.48	683,923.50	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	5,845.50	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	60,641.88	80,248.54	455,350.58	297,778.41	298,462.59	596,241.00	
W0421	Temporary Access Bridge Superstructure Installation	t	568.60	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	177,894.68	65,878.38	580,697.02	357,244.16	467,225.84	824,470.00	
W0422	Temporary Access Bridge Superstructure Removal	t	568.60	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	132,517.40	47,294.66	394,473.94	244,055.85	330,230.15	574,286.00	
W0415	Temporary Deck Plate Installation	m2	4,784.00	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	132,147.93	21,924.40	220,036.47	133,800.15	240,308.65	374,108.80	
W0416	Temporary Deck Plate Removal	m2	4,784.00	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	72,106.02	11,976.17	120,194.61	73,088.14	131,188.66	204,276.80	
W0423	Temporary Access Bridge Railing Installation	m	1,196.00	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	45,797.19	8,583.31	72,395.50	44,737.98	82,038.02	126,776.00	
W0424	Temporary Access Bridge Railing Removal	m	1,196.00	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	25,914.49	3,679.21	38,458.70	23,289.73	44,762.67	68,052.40	
M05041	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	
M05051	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	
M05055	Temporary Pipe Railing Depreciation	m·d	574,080.00	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%		73,881.06	197,016.17	221,643.19	270,897.23	221,643.19	492,540.42	1.0%
	Total									790,933.75	46,331,041.47	2,624,606.92	24,687,216.28	25,059,365.83	49,746,582.12	
	Components (%)									1.6%	93.1%	5.3%	49.6%	50.4%	100.0%	
	Unit Rate	m								1,907.91	111,760.94	6,331.15	59,551.15	60,448.85	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	3,290.60	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	39,423.63	52,089.78	293,486.79	192,167.56	192,832.64	385,000.20	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	3,290.60	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	34,137.05	45,174.21	256,329.93	167,628.03	168,013.17	335,641.20	
W0421	Temporary Access Bridge Superstructure Installation	t	428.90	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	134,187.53	49,692.58	438,024.89	269,472.43	352,432.57	621,905.00	
W0422	Temporary Access Bridge Superstructure Removal	t	428.90	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	99,959.04	35,674.78	297,555.18	184,093.49	249,095.51	433,189.00	
W0415	Temporary Deck Plate Installation	m2	3,470.00	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	95,851.45	15,902.52	159,600.03	97,049.86	174,304.14	271,354.00	
W0416	Temporary Deck Plate Removal	m2	3,470.00	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	52,300.98	8,686.73	87,181.29	53,013.35	95,155.65	148,169.00	
W0423	Temporary Access Bridge Railing Installation	m	900.00	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	34,462.77	6,459.01	54,478.22	33,665.71	61,734.29	95,400.00	
W0424	Temporary Access Bridge Railing Removal	m	900.00	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	19,500.87	2,768.64	28,940.49	17,525.72	33,684.28	51,210.00	
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%		62,954.82	167,879.53	188,864.47	230,834.35	188,864.47	419,698.82	1.0%
	Total									572,778.15	40,012,341.78	1,804,461.30	21,059,457.48	21,330,123.74	42,389,581.22	
	Components (%)									1.4%	94.4%	4.3%	49.7%	50.3%	100.0%	
	Unit Rate	m								1,783.62	124,597.34	5,619.04	65,578.58	66,421.42	132,000.00	

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

H-Pile = 4,387.5 m 412.4 t
Superstructure = 428.9 t
Depreciation Period = 600 days

Pile Driving Length = 3,290.6 m
Deck Plate = 3,470.0 m2
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 Component (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Total (PP)	Remarks
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	1,042.88	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	12,494.35	16,508.58	93,013.45	60,902.80	61,113.58	122,016.38	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	1,042.88	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	10,818.90	14,316.86	81,237.49	53,125.59	53,247.66	106,373.25	
W0421	Temporary Access Bridge Superstructure Installation	t	126.00	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	39,422.41	14,598.98	128,686.54	79,167.20	103,539.73	182,706.93	
W0422	Temporary Access Bridge Superstructure Removal	t	126.00	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	29,366.56	10,480.75	87,417.52	54,084.07	73,180.76	127,264.83	
W0415	Temporary Deck Plate Installation	m2	1,004.00	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	27,733.39	4,601.19	46,178.22	28,080.13	50,432.67	78,512.80	
W0416	Temporary Deck Plate Removal	m2	1,004.00	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	15,132.62	2,513.39	25,224.79	15,338.73	27,532.07	42,870.80	
W0423	Temporary Access Bridge Railing Installation	m	264.00	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	10,109.08	1,894.64	15,980.28	9,875.27	18,108.73	27,984.00	
W0424	Temporary Access Bridge Railing Removal	m	264.00	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	5,720.26	812.13	8,489.21	5,140.88	9,880.72	15,021.60	
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%		12,479.53	33,278.74	37,438.58	45,758.26	37,438.58	83,196.84	1.0%
	Total									163,277.09	7,715,938.63	523,665.08	4,159,939.63	4,242,941.17	8,402,880.80	
	Components (%)									1.9%	91.8%	6.2%	49.5%	50.5%	100.0%	
	Unit Rate	m								2,040.26	96,416.17	6,543.57	51,981.42	53,018.58	105,000.00	

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

H-Pile = 1,390.5 m 130.7 t
Superstructure = 126.0 t
Depreciation Period = 390 days

Pile Driving Length = 1,042.9 m
Deck Plate = 1,004.0 m2
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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0121	Borrow Soil, transported	m3	14,179.50	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	207,876.91	671,286.51	2,141,070.08	1,461,701.32	1,558,532.18	3,020,233.50	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	12,330.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	10,357.20	56,619.36	623,503.44	375,636.84	314,843.16	690,480.00	
W0122	Crushed Aggregate, transported	m3	1,339.75	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	31,361.23	53,684.81	260,609.46	162,579.47	183,076.03	345,655.50	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1,165.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	978.60	5,349.68	58,911.72	35,492.05	29,747.95	65,240.00	
W0105	Excavation, Backhoe 0.6lm3	m3	13,495.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	24,285.60	46,363.42	481,296.48	291,861.38	260,084.12	551,945.50	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13,495.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	102,220.65	185,153.57	967,668.78	646,015.58	609,019.42	1,255,035.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		8,892.88	23,714.36	26,678.65	26,678.65	32,607.24	59,285.90	1.0%
	Total									385,973.08	1,042,171.70	4,559,730.61	2,999,965.29	2,987,910.11	5,987,875.40	
	Components (%)									6.4%	17.4%	76.1%	50.1%	49.9%	100.0%	
	Unit Rate	m								543.39	1,467.22	6,419.39	4,223.49	4,206.51	8,430.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0121	Borrow Soil, transported	m3	14,099.00	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	206,696.75	667,475.47	2,128,914.78	1,453,402.94	1,549,684.06	3,003,087.00	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	12,260.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	10,298.40	56,297.92	619,963.68	373,604.27	313,055.73	686,660.00	
W0122	Crushed Aggregate, transported	m3	1,660.60	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	38,871.77	66,541.51	323,021.52	201,514.81	226,919.99	428,434.80	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1,444.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	1,212.96	6,630.85	73,020.19	43,991.86	36,872.14	80,864.00	
W0105	Excavation, Backhoe 0.6lm3	m3	13,704.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	24,661.72	47,081.46	488,750.42	296,381.50	264,112.10	560,493.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13,704.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	103,803.76	188,021.08	982,647.15	656,020.56	618,451.44	1,274,472.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		9,050.87	24,135.65	27,152.60	27,152.60	33,186.51	60,339.11	1.0%
	Total									394,596.23	1,056,183.94	4,643,470.34	3,051,968.54	3,042,281.97	6,094,250.51	
	Components (%)									6.5%	17.3%	76.2%	50.1%	49.9%	100.0%	
	Unit Rate	m								448.71	1,200.03	5,280.26	3,470.51	3,459.49	6,930.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0121	Borrow Soil, transported	m3	7,762.50	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	113,801.23	367,492.61	1,172,118.66	800,201.46	853,211.04	1,653,412.50	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	6,750.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	5,670.00	30,996.00	341,334.00	205,640.61	172,359.39	378,000.00	
W0122	Crushed Aggregate, transported	m3	565.80	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	13,244.40	22,672.04	110,059.96	68,660.17	77,316.23	145,976.40	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	492.00	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	413.28	2,259.26	24,879.46	14,988.92	12,563.08	27,552.00	
W0105	Excavation, Backhoe 0.6lm3	m3	7,242.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	13,032.70	24,880.62	258,284.48	156,625.42	139,572.38	296,197.80	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	7,242.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	54,856.02	99,361.41	519,288.58	346,679.87	326,826.13	673,506.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	45.0%	55.0%		4,761.97	12,698.58	14,285.90	14,285.90	17,460.55	31,746.45	1.0%
	Total									205,779.60	560,360.51	2,440,251.04	1,607,082.34	1,599,308.81	3,206,391.15	
	Components (%)									6.4%	17.5%	76.1%	50.1%	49.9%	100.0%	
	Unit Rate	m								686.70	1,869.97	8,143.33	5,362.97	5,337.03	10,700.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	3,494.00	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	42,264.99	65,160.57	332,818.41	221,919.43	218,324.57	440,244.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	3,494.00	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	26,116.95	40,257.76	205,109.09	136,830.69	134,653.11	271,483.80	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	1,781.61	2,746.21	13,948.18	9,310.55	9,165.45	18,476.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	1,027.70	1,583.77	8,015.33	5,354.03	5,272.77	10,626.80	
W0413	Temporary Struts & Tie Rod Installation	t	61.60	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	80,347.23	28,691.52	150,297.25	99,515.99	159,820.01	259,336.00	
W0414	Temporary Struts & Supports Removal	t	61.60	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	37,658.24	12,296.08	80,637.68	51,358.59	79,233.41	130,592.00	
W0423	Temporary Access Bridge Railing Installation	m	49.20	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	1,883.96	353.09	2,978.14	1,840.39	3,374.81	5,215.20	
W0424	Temporary Access Bridge Railing Removal	m	49.20	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	1,066.05	151.35	1,582.08	958.07	1,841.41	2,799.48	
M05031	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	
M05041	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	
M05055	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	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	5,820.48	14,816.08	50,763.44	36,657.89	34,742.11	71,400.00	
W0121	Borrow Soil, transported	m3	671.88	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	9,850.02	31,808.17	101,452.25	69,261.11	73,849.33	143,110.44	Loss 10.0%
W0131	Backfill A	m3	610.80	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	1,924.75	4,358.18	47,956.11	28,911.88	25,327.16	54,239.04	
W0105	Excavation, Backhoe 0.6m3	m3	610.80	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	1,099.20	2,098.46	21,784.06	13,210.00	11,771.72	24,981.72	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	610.80	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	4,626.63	8,380.27	43,797.50	29,239.45	27,564.95	56,804.40	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		3,461.58	9,230.88	10,384.74	11,538.60	11,538.60	23,077.20	1.0%
	Total									220,261.02	1,037,668.76	1,072,867.09	1,124,534.34	1,206,262.53	2,330,796.86	
	Components (%)									9.5%	44.5%	46.0%	48.2%	51.8%	100.0%	
	Unit Rate	each								220,185.72	1,037,313.99	1,072,500.29	1,124,149.88	1,205,850.12	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	5,020.00	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	60,724.17	93,619.36	478,176.47	318,842.46	313,677.54	632,520.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	5,020.00	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	37,523.50	57,840.28	294,690.23	196,591.32	193,462.68	390,054.00	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	1,781.61	2,746.21	13,948.18	9,310.55	9,165.45	18,476.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	124.00	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	1,027.70	1,583.77	8,015.33	5,354.03	5,272.77	10,626.80	
W0413	*Temporary Struts & Tie Rod Installation*	*t*	*86.00*	*31.0%*	*11.1%*	*58.0%*	*38.4%*	*61.6%*	*4,210.00*	*112,173.09*	*40,056.34*	*209,830.57*	*138,934.67*	*223,125.33*	*362,060.00*	
W0414	Temporary Struts & Supports Removal	t	86.00	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	52,574.81	17,166.60	112,578.58	71,701.93	110,618.07	182,320.00	
W0423	Temporary Access Bridge Railing Installation	m	52.80	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	2,021.82	378.93	3,196.06	1,975.05	3,621.75	5,596.80	
W0424	Temporary Access Bridge Railing Removal	m	52.80	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	1,144.05	162.43	1,697.84	1,028.18	1,976.14	3,004.32	
M05031	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	
M05041	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	
M05055	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	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	5,820.48	14,816.08	50,763.44	36,657.89	34,742.11	71,400.00	
W0121	Borrow Soil, transported	m3	770.88	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	11,301.40	36,495.03	116,401.01	79,466.58	84,730.86	164,197.44	Loss 10.0%
W0131	Backfill A	m3	700.80	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	2,208.36	5,000.35	55,022.33	33,171.98	29,059.06	62,231.04	
W0105	Excavation, Backhoe 0.6m3	m3	700.80	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	1,261.16	2,407.67	24,993.89	15,156.46	13,506.26	28,662.72	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	700.80	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	5,308.35	9,615.09	50,250.96	33,547.81	31,626.59	65,174.40	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		4,432.62	11,820.32	13,297.86	14,775.40	14,775.40	29,550.81	1.0%
	Total									300,634.74	1,249,791.47	1,434,205.56	1,435,315.30	1,549,316.47	2,984,631.77	
	Components (%)									10.1%	41.9%	48.1%	48.1%	51.9%	100.0%	
	Unit Rate	each								300,168.20	1,247,851.95	1,431,979.85	1,433,087.87	1,546,912.13	2,980,000.00	

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 (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	3,852.00	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	46,595.52	71,837.01	366,919.47	244,657.60	240,694.40	485,352.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	3,852.00	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	28,792.93	44,382.62	226,124.85	150,850.55	148,449.85	299,300.40	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	1,321.84	2,037.51	10,348.65	6,907.82	6,800.18	13,708.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	762.49	1,175.05	5,946.86	3,972.35	3,912.05	7,884.40	
W0413	Temporary Struts & Tie Rod Installation	t	69.50	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	90,651.50	32,371.11	169,572.38	112,278.60	180,316.40	292,595.00	
W0414	Temporary Struts & Supports Removal	t	69.50	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	42,487.79	13,873.01	90,979.20	57,945.16	89,394.84	147,340.00	
W0423	Temporary Access Bridge Railing Installation	m	52.80	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	2,021.82	378.93	3,196.06	1,975.05	3,621.75	5,596.80	
W0424	Temporary Access Bridge Railing Removal	m	52.80	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	1,144.05	162.43	1,697.84	1,028.18	1,976.14	3,004.32	
M05031	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	
M05041	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	
M05055	Temporary Pine 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	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	5,820.48	14,816.08	50,763.44	36,657.89	34,742.11	71,400.00	
W0121	Borrow Soil, transported	m3	818.40	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	11,998.06	38,744.73	123,576.41	84,365.20	89,954.00	174,319.20	Loss 10.0%
W0131	Backfill A	m3	744.00	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	2,344.49	5,308.59	58,414.12	35,216.83	30,850.37	66,067.20	
W0105	Excavation, Backhoe 0.6lm3	m3	744.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	1,338.90	2,556.09	26,534.61	16,090.76	14,338.84	30,429.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	744.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	5,635.58	10,207.80	53,348.62	35,615.83	33,576.17	69,192.00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		3,615.92	9,642.45	10,847.75	12,053.06	12,053.06	24,106.11	1.0%
	Total									245,862.99	989,241.31	1,199,613.07	1,171,248.32	1,263,469.05	2,434,717.37	
	Components (%)									10.1%	40.6%	49.3%	48.1%	51.9%	100.0%	
	Unit Rate	each								245,386.62	987,324.61	1,197,288.77	1,168,978.97	1,261,021.03	2,430,000.00	

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 (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	2,470.00	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	29,878.23	46,063.71	235,278.06	156,880.65	154,339.35	311,220.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	2,470.00	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	18,462.76	28,459.26	144,996.98	96,729.19	95,189.81	191,919.00	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	1,321.84	2,037.51	10,348.65	6,907.82	6,800.18	13,708.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	92.00	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	762.49	1,175.05	5,946.86	3,972.35	3,912.05	7,884.40	
W0413	Temporary Struts & Tie Rod Installation	t	37.40	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	48,782.25	17,419.85	91,251.90	60,420.42	97,033.58	157,454.00	
W0414	Temporary Struts & Supports Removal	t	37.40	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	22,863.93	7,465.48	48,958.59	31,182.00	48,106.00	79,288.00	
W0423	Temporary Access Bridge Railing Installation	m	49.10	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	1,880.14	352.38	2,972.09	1,836.65	3,367.95	5,204.60	
W0424	Temporary Access Bridge Railing Removal	m	49.10	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	1,063.88	151.04	1,578.86	956.13	1,837.66	2,793.79	
M05031	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	
M05041	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	
M05055	Temporary Pine 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	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	
W0432	Temporary Drain Pump Operation	day	60.00	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	5,820.48	14,816.08	50,763.44	36,657.89	34,742.11	71,400.00	
W0121	Borrow Soil, transported	m3	587.95	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	8,619.57	27,834.75	88,779.02	60,609.14	64,624.21	125,233.35	Loss 10.0%
W0131	Backfill A	m3	534.50	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	1,684.32	3,813.76	41,965.52	25,300.26	22,163.34	47,463.60	
W0105	Excavation, Backhoe 0.61m3	m3	534.50	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	961.89	1,836.33	19,062.84	11,559.83	10,301.22	21,861.05	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	534.50	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	4,049.68	7,333.43	38,326.39	25,586.91	24,121.59	49,708.50	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		2,542.58	6,780.21	7,627.74	8,475.27	8,475.27	16,950.54	1.0%
	Total									150,024.65	772,779.71	789,199.76	831,454.44	880,549.68	1,712,004.12	
	Components (%)									8.8%	45.1%	46.1%	48.6%	51.4%	100.0%	
	Unit Rate	each								149,849.03	771,875.07	788,275.90	830,481.11	879,518.89	1,710,000.00	

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