

5. Summary of Basic Work Costs

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0001	Grass Cutting	m2	90.9%	0.9%	8.2%	4.5%	95.5%	1.11	
W0002	Tree Cutting	m2	92.6%	0.7%	6.7%	3.7%	96.3%	0.93	
W0003	Grubbing	m2	4.0%	7.9%	88.0%	53.0%	47.0%	24.90	
W0004	Burning	m2	100.0%	0.0%	0.0%	0.0%	100.0%	1.94	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	12.7%	7.5%	79.8%	48.1%	51.9%	1,280.00	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	
W0014	Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)	m3	46.7%	10.9%	42.4%	30.0%	70.0%	1,700.00	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	3.5%	6.5%	90.1%	53.2%	46.8%	56.50	
W0016	Excavation of Gravel Pavement	m3	4.5%	8.4%	87.1%	52.9%	47.1%	10.30	
W0025	Disposal of Demolished Debris	m3	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	
W0101	Excavation, Bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	25.40	
W0102	Excavation, Backhoe 0.35m3	m3	6.5%	8.4%	85.1%	51.8%	48.2%	49.40	
W0105	Excavation, Backhoe 0.61m3	m3	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	
W0107	Excavation, Clamshell + Backhoe	m3	8.0%	8.1%	83.9%	52.8%	47.2%	91.60	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	3.5%	6.5%	90.1%	53.2%	46.8%	185.00	
W0109	Excavation, Manpower	m3	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	
W0115	Disposal of Surplus Soil (manpower loading)	m3	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	
W0121	Borrow Soil, transported	m3	7.0%	22.2%	70.8%	48.3%	51.7%	210.00	
W0122	Crushed Aggregate, transported	m3	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	
W0123	Excavated Soil, transported	m3	7.4%	13.4%	79.1%	51.7%	48.3%	65.00	
W0128	Selected Sand, transported	m3	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	
W0129	Gravel/Stone, transported	m3	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	
W0131	Backfill A	m3	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	
W0132	Backfill B	m3	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	
W0133	Backfill C	m3	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	
W0134	Backfill D	m3	13.5%	12.6%	73.8%	48.4%	51.6%	200.00	
W0135	Backfill, Manpower + Compactor	m3	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	
W0141	Filling & Laying, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	
W0142	Filling & Laying, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	29.50	
W0145	Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	
W0146	Compaction, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	26.20	
W0147	Compaction, tire roller 8~20t	m3	4.4%	8.0%	87.6%	52.7%	47.3%	10.40	
W0148	Compaction, tamper	m3	12.6%	17.2%	70.2%	49.3%	50.7%	76.30	
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	
W0150	Filling, Laying & Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	51.60	
W0151	Slope Formation by Bulldozer	m2	7.5%	7.4%	85.0%	61.1%	48.9%	39.70	
W0152	Slope Formation by Backhoe	m2	10.1%	7.9%	82.0%	49.8%	50.2%	48.10	
W0161	Gravel Foundation Fill	m3	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	
W0162	Selected Sand Fill	m3	34.3%	15.1%	50.6%	33.0%	67.0%	280.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	2.7%	79.4%	17.9%	56.5%	43.5%	1,480.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	3.0%	76.9%	20.1%	56.2%	43.8%	1,370.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.4%	82.1%	15.5%	56.9%	43.1%	1,670.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.3%	82.7%	15.0%	57.0%	43.0%	1,700.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	2.3%	82.6%	15.1%	57.7%	42.3%	1,750.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.1%	83.8%	14.0%	57.9%	42.1%	1,830.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.9%	86.0%	12.1%	58.3%	41.7%	2,120.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.7%	78.9%	18.4%	57.2%	42.8%	1,510.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	
W0221	Mortar (1:3)	m3	1.7%	93.7%	4.6%	58.1%	41.9%	1,820.00	
W0222	Mortar (1:2)	m3	1.5%	94.0%	4.5%	58.2%	41.8%	2,340.00	
W0225	Grout (non-shrink)	m3	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.5%	0.2%	70.3%	37.7%	62.3%	511.00	
W0234	Concrete Pouring by Truck Crane	m3	31.0%	5.7%	63.3%	38.2%	61.8%	282.00	
W0235	Concrete Pouring by Manpower for small	m3	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	
W0240	Formwork (plain concrete H<4m)	m2	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	47.6%	33.4%	19.1%	13.5%	86.5%	285.00	
W0243	Formwork (lean concrete)	m2	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	
W0244	Formwork for Bridge Superstructures	m2	58.1%	26.6%	15.3%	11.0%	89.0%	358.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	63.0%	21.4%	15.6%	11.3%	88.7%	473.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 460 (18")	m	9.8%	66.4%	23.8%	53.4%	46.6%	528.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 610 (24")	m	10.0%	66.7%	23.3%	53.4%	46.6%	870.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 760 (30")	m	10.2%	66.8%	23.1%	53.4%	46.6%	1,300.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 910 (36")	m	10.6%	67.2%	22.2%	53.3%	46.7%	1,990.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1070 (42")	m	10.6%	67.2%	22.2%	53.3%	46.7%	2,610.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1220 (48")	m	10.6%	67.2%	22.2%	53.3%	46.7%	3,280.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1520 (60")	m	10.6%	67.2%	22.2%	53.3%	46.7%	4,900.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 460 (18")	m	10.5%	68.4%	21.1%	53.5%	46.5%	581.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 610 (24")	m	10.5%	68.4%	21.2%	53.5%	46.5%	953.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 760 (30")	m	10.3%	68.3%	21.4%	53.5%	46.5%	1,330.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 910 (36")	m	10.9%	68.6%	20.4%	53.4%	46.6%	2,140.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1070 (42")	m	10.9%	68.6%	20.5%	53.4%	46.6%	2,700.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1220 (48")	m	10.9%	68.6%	20.5%	53.4%	46.6%	3,500.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1520 (60")	m	10.9%	68.6%	20.4%	53.4%	46.6%	5,200.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 460 (18")	m	10.5%	68.4%	21.1%	53.5%	46.5%	749.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 610 (24")	m	10.3%	68.3%	21.3%	53.5%	46.5%	1,110.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 760 (30")	m	10.5%	68.4%	21.2%	53.5%	46.5%	1,650.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ 910 (36")	m	10.9%	68.3%	20.8%	53.4%	46.6%	2,640.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1070 (42")	m	11.3%	68.6%	20.1%	53.4%	46.6%	3,960.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1220 (48")	m	10.9%	68.3%	20.8%	53.4%	46.6%	4,320.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1520 (60")	m	11.3%	68.4%	20.3%	53.4%	46.6%	7,490.00	
W0341	Precast Concrete Pipe Laying φ 460 (18")	m	47.4%	8.0%	44.6%	28.7%	71.3%	202.00	
W0342	Precast Concrete Pipe Laying φ 610 (24")	m	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	
W0343	Precast Concrete Pipe Laying φ 760 (30")	m	47.3%	8.1%	44.6%	28.7%	71.3%	303.00	
W0344	Precast Concrete Pipe Laying φ 910 (36")	m	31.3%	8.6%	60.1%	37.5%	62.5%	516.00	
W0345	Precast Concrete Pipe Laying φ 1070 (42")	m	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	
W0346	Precast Concrete Pipe Laying φ 1220 (48")	m	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	
W0347	Precast Concrete Pipe Laying φ 1520 (60")	m	27.1%	8.5%	64.4%	39.8%	60.2%	938.00	
W0351	Precast Concrete Pipe Removal φ 460 (18")	m	46.8%	5.9%	47.3%	29.1%	70.9%	62.00	
W0352	Precast Concrete Pipe Removal φ 610 (24")	m	45.3%	6.0%	48.6%	29.9%	70.1%	76.00	
W0353	Precast Concrete Pipe Removal φ 760 (30")	m	46.6%	5.9%	47.5%	29.2%	70.8%	93.60	
W0354	Precast Concrete Pipe Removal φ 910 (36")	m	31.0%	6.4%	62.5%	37.7%	62.3%	159.00	
W0355	Precast Concrete Pipe Removal φ 1070 (42")	m	31.5%	6.4%	62.1%	37.4%	62.6%	183.00	
W0356	Precast Concrete Pipe Removal φ 1220 (48")	m	31.2%	6.4%	62.4%	37.6%	62.4%	205.00	
W0357	Precast Concrete Pipe Removal φ 1520 (60")	m	27.0%	6.3%	66.7%	39.9%	60.1%	289.00	
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	10.4%	13.5%	76.1%	49.9%	50.1%	200.00	
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	10.4%	13.5%	76.1%	49.9%	50.1%	256.00	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	10.4%	13.5%	76.2%	49.9%	50.1%	169.00	
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	10.4%	13.5%	76.1%	49.8%	50.2%	117.00	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	10.3%	13.4%	76.2%	49.9%	50.1%	102.00	
W0411	Temporary Struts & Supports Installation	t	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	
W0412	Temporary Struts & Supports Removal	t	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	
W0413	Temporary Struts & Tie Rod Installation	t	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	
W0414	Temporary Struts & Supports Removal	t	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	
W0415	Temporary Deck Plate Installation	m2	35.7%	5.8%	58.5%	35.5%	64.5%	78.70	
W0416	Temporary Deck Plate Removal	m2	35.7%	5.8%	58.5%	35.5%	64.5%	43.00	
W0417	Temporary Deck Plate Support Beam Installation	t	37.1%	9.5%	53.5%	34.9%	65.1%	1,250.00	
W0418	Temporary Deck Plate Support Beam Removal	t	38.3%	8.2%	53.5%	34.0%	66.0%	746.00	
W0421	Temporary Access Bridge Superstructure Installation	t	21.9%	8.0%	70.1%	43.2%	56.8%	1,450.00	
W0422	Temporary Access Bridge Superstructure Removal	t	23.4%	8.2%	68.4%	42.4%	57.6%	1,010.00	
W0423	Temporary Access Bridge Railing Installation	m	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	
W0424	Temporary Access Bridge Railing Removal	m	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	
W0431	Temporary Drain Pump Installation & Removal	set	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	
W0432	Temporary Drain Pump Operation	day	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	
W0441	Temporary Frame Support Installation & Removal	m3	59.4%	3.9%	36.7%	22.3%	77.7%	53.10	

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			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0442	Temporary Frame Support Depreciation	m ³ d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	
W0501	Ground Assembly of Structural Steel Bridge	t	11.6%	3.1%	85.3%	48.2%	51.8%	1,270.00	
W0502	Erection of Structural Steel Bridge Members	t	11.0%	4.8%	84.2%	48.3%	51.7%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.5%	93.2%	2.3%	66.1%	33.9%	43.70	
W0504	Finish Painting of Structural Steel Bridge	m ²	42.5%	48.4%	9.1%	36.1%	63.9%	133.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.6%	91.2%	4.2%	48.3%	51.7%	16,000.00	
W0506	Site Welding for Steel Bridge	m	23.7%	34.5%	41.9%	44.3%	55.7%	3,130.00	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	76.3%	11.8%	11.8%	13.0%	87.0%	1,130.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	6.0%	93.8%	0.2%	64.9%	35.1%	935.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.3%	91.5%	0.2%	62.7%	37.3%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	95.9%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.4%	1.7%	70.6%	29.4%	2,070.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	6.1%	74.8%	19.1%	55.3%	44.7%	2,110.00	
W0551	Precast PC Girder Erection (W < 12.5t)	t	25.5%	3.9%	70.6%	40.8%	59.2%	219.00	
W0552	Precast PC Girder Erection (12.5 ≤ W < 15.0t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	231.00	
W0553	Precast PC Girder Erection (15.0 ≤ W < 17.5t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	219.00	
W0554	Precast PC Girder Erection (17.5 ≤ W < 20t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	199.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	
W0557	Precast PC Girder Erection (60.0 ≤ W < 75.0 t)	t	6.3%	1.8%	91.9%	51.1%	48.9%	424.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	5.8%	1.8%	92.4%	51.3%	48.7%	431.00	
W0601	Pier Protection Concrete Block Type A Production & Laying	each	14.5%	62.3%	23.2%	50.2%	49.8%	3,060.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.9%	62.0%	23.1%	49.9%	50.1%	2,910.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	14.9%	61.7%	23.3%	49.9%	50.1%	2,870.00	
W0611	Stone Laying	m ³	10.0%	14.3%	75.6%	47.5%	52.5%	381.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m ³	34.7%	17.7%	47.6%	35.2%	64.8%	428.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.7%	44.4%	30.9%	39.0%	61.0%	7,880.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m ³	29.5%	29.9%	40.5%	37.3%	62.7%	173.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.9%	29.1%	46.0%	39.7%	60.3%	8,370.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m ³	28.4%	28.6%	43.0%	37.8%	62.2%	180.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m ³	21.7%	40.5%	37.9%	41.1%	58.9%	94.20	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m ³	30.1%	28.7%	41.2%	37.1%	62.9%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.7%	17.7%	58.6%	40.9%	59.1%	337,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,120.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	5,070.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	116.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.7%	84.3%	4.1%	60.3%	39.7%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.0%	92.4%	6.7%	70.9%	29.1%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.4%	87.4%	6.2%	68.3%	31.7%	9,570.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.4%	84.5%	4.1%	60.5%	39.5%	153,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.1%	86.6%	8.3%	67.0%	33.0%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.5%	23.3%	36.3%	34.4%	65.6%	829.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0682	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Transversal)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	90.7%	8.0%	62.9%	37.1%	117.00	
W0702	Precast Concrete Cover (580x480x70),	each	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	
W0703	Precast Concrete Cover (680x580x75), furnish	each	4.3%	90.6%	5.1%	60.7%	39.3%	189.00	
W0704	Precast Concrete Cover (680x580x75),	each	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	9.1%	89.9%	1.0%	63.1%	36.9%	1,140.00	
W0731	Rubble Concrete	m3	6.3%	50.8%	42.9%	52.5%	47.5%	937.00	
W0732	Granular Bedding for Rubble Concrete	m3	27.6%	12.4%	59.9%	37.4%	62.6%	404.00	
W0733	Washout Prevention Filter, furnish and laying	m2	2.1%	96.1%	1.8%	58.5%	41.5%	91.80	
W0741	Grouted Riprap Class A	m3	15.8%	63.5%	20.7%	47.9%	52.1%	738.00	
W0742	Stone Masonry, laid	m3	14.5%	69.8%	15.7%	49.2%	50.8%	1,010.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	26.7%	12.6%	60.7%	38.6%	61.4%	54.70	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	17.0%	69.0%	6.6%	46.0%	46.6%	417.00	
W0871	Guardrail Type A, furnish	m	8.0%	78.8%	13.2%	59.1%	40.9%	903.00	
W0872	Guardrail Type B, furnish	m	9.3%	76.4%	14.3%	58.0%	42.0%	708.00	
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	7.1%	81.6%	11.3%	60.1%	39.9%	876.00	
W0911	Digging Out Tree, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	18.90	
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	36.30	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	64.20	
W0921	Tree Haulage, Low Tree H≤1.5m	each	13.7%	19.2%	67.1%	48.9%	51.1%	25.10	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	47.80	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	83.00	
W0931	Tree Planting, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	9.27	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	27.70	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	115.00	
W0951	Precast Curbstone for Planter Square, furnish	m	13.3%	68.6%	18.1%	49.8%	50.2%	46.80	
W0952	Precast Curbstone for Planter Square, Laying	m	96.2%	3.1%	0.8%	1.9%	98.1%	35.00	
W0956	Treading Prevention Board for Planter Square, Furnish	m2	13.7%	71.5%	14.7%	51.7%	48.3%	248.00	
W0957	Treading Prevention Board for Planter Square, Laying	m2	93.5%	4.6%	2.0%	3.3%	96.7%	32.80	
W1001	Underground Cable Duct	m	13.3%	67.8%	19.0%	47.0%	53.0%	364.00	
W1011	Electric Cable Laying	m	22.1%	75.9%	1.9%	42.6%	57.4%	84.20	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	6.9%	69.4%	23.7%	59.7%	40.3%	22,100.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.2%	68.6%	24.2%	59.4%	40.6%	21,100.00	
W1103	Traffic Signal Posts Type B φ 114.3mm x 4.2m, Furnished	each	12.4%	53.0%	34.6%	53.6%	46.4%	9,380.00	
W1104	Traffic Signal Posts Type C φ 114.3mm x 3.4m, Furnished	each	12.8%	51.8%	35.4%	53.1%	46.9%	9,050.00	
W1105	Pedestrian Signal Posts Type D φ 114.3mm x 3.0m, Furnished	each	13.0%	51.1%	35.8%	52.9%	47.1%	8,890.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.5%	60.5%	29.0%	56.5%	43.5%	16,500.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.2%	61.3%	28.5%	56.8%	43.2%	17,100.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	25.2%	8.0%	66.8%	41.3%	58.7%	74,300.00	
W2002	Transportation of Disassembled Equipment	LS	4.2%	9.9%	85.9%	53.1%	46.9%	92,200.00	
W2003	Other Equipment & Material Haulage	LS	9.1%	15.3%	75.6%	50.9%	49.1%	70,600.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	920,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.6%	8.1%	90.3%	54.3%	45.7%	2.54	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.7%	84.2%	3.0%	36.4%	63.6%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.8%	82.8%	3.4%	37.4%	62.6%	306.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.7%	67.1%	25.1%	60.2%	39.8%	38,900.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	8.4%	79.9%	11.8%	54.3%	45.7%	159.00	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	2.5%	92.9%	4.6%	62.1%	37.9%	629.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W3006	Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)	m2	2.5%	92.9%	4.6%	62.1%	37.9%	625.00	
W3007	Plain Cement Floor Finish	m2	7.7%	85.4%	6.9%	54.3%	45.7%	63.20	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.2%	85.0%	6.9%	54.0%	46.0%	63.60	
W3009	Unglazed Tile Finish (8" x 8")	m2	1.7%	97.8%	0.5%	60.2%	39.8%	589.00	
W3010	Gypsum Board Ceiling	m2	1.7%	97.8%	0.5%	60.2%	39.8%	351.00	
W3011	Plain Cement Mortar Wall Finish	m2	9.1%	84.1%	6.8%	53.4%	46.6%	64.20	
W3012	Steel Fixed Louver	each	15.1%	35.8%	49.1%	49.2%	50.8%	7,140.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L. S.	5.3%	90.6%	4.0%	41.3%	58.7%	355,000.00	
W3014	Lighting and Powers	L. S.	5.1%	93.4%	1.5%	56.6%	43.4%	139,000.00	
W3015	Sewer Water Line	L. S.	4.5%	94.8%	0.7%	49.7%	50.3%	115,000.00	
W3016	Septic Tank	each	14.6%	63.6%	21.8%	44.1%	55.9%	20,700.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.3%	93.2%	3.6%	49.1%	50.9%	1,850.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.5%	92.7%	1.7%	14.6%	85.4%	127.00	
W3019	Temporary Office Rental	month	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	0.0%	82.9%	17.1%	34.5%	65.5%	1,040.00	
W3102	Furniture and Fixtures for Field Office	L. S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L. S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L. S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L. S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L. S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L. S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L. S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US\$1.50 million
W3501	Relocation of Existing Lighting Poles	each	27.3%	22.5%	50.2%	38.8%	61.2%	6,710.00	
W3502	Relocation of Underground Conduit	m	18.3%	24.6%	57.1%	44.6%	55.4%	445.00	
W3503	Relocation of Watermain	m	5.2%	77.0%	17.8%	55.7%	44.3%	1,470.00	
W3504	Relocation of Sewer Pipe	m	16.4%	46.8%	36.8%	48.1%	51.9%	3,320.00	
W3511	Repair & Maintenance of Existing Access Road	m2	21.0%	16.4%	62.6%	41.1%	58.9%	76.10	
W4001	Soil Investigation Boring	m	18.0%	8.0%	74.0%	50.0%	50.0%	2,950.00	
W4002	Soil Investigation Standard Penetration Test	each	25.0%	5.0%	70.0%	50.0%	50.0%	1,630.00	
W4003	Soil Investigation Laboratory Test	set	30.0%	15.0%	55.0%	50.0%	50.0%	18,900.00	
W4101	Environmental Compliance	km	50.2%	49.0%	0.8%	0.8%	99.2%	99,500.00	
W4111	Health and Safety Requirements	day	10.0%	55.0%	35.0%	40.0%	60.0%	686.00	
W4121	Overseas Development Assistance (ODA) Recognition Plate	each	1.8%	96.1%	2.1%	63.1%	36.9%	93,600.00	
W4201	Contingency	L. S.	15.0%	45.0%	40.0%	50.0%	50.0%	1,600,000.00	

6. Breakdown of Basic Work Cost

Currency Exchange Rate : 1 US\$ = 82.26 PP = 120.12 yen

W0001 Grass Cutting

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	216.88	0.00	0.00	0.00	216.88	216.88	
L019	Skilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	471.60	0.00	0.00	0.00	471.60	697.00	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	10.12	91.07	50.59	50.59	101.19	(0.0%)
Total									1,011.88	10.12	91.07	50.59	1,062.47	1,113.07		
Components (%)									90.9%	0.9%	8.9%	4.8%	95.5%	100.0%		
Unit Rate			m2						1.01	0.01	0.09	0.05	1.06	1.11		

Miscellaneous covers the cost for grass cutters, scythes, sickles, etc.

W0002 Tree Cutting

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	184.32	0.00	0.00	0.00	184.32	184.32	
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	471.60	0.00	0.00	0.00	471.60	697.00	
L020	Unskilled Labor	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	204.80	0.00	0.00	0.00	204.80	204.80	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	6.88	61.96	34.42	34.42	68.85	8.0%
Total									860.62	6.88	61.96	34.42	923.47	923.47		
Components (%)									92.8%	0.7%	6.7%	3.7%	96.3%	100.0%		
Unit Rate			m2						0.86	0.01	0.06	0.03	0.89	0.93		

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

W0003 Grubbing

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	97.92	0.00	0.00	0.00	97.92	97.92	
L020	Unskilled Labor	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	54.40	0.00	0.00	0.00	54.40	54.40	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	6.40	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	518.40	1,347.84	16,413.76	9,258.45	8,021.54	17,280.00	
R0102-061	Backhoe, hydraulic, crawler, 0.8m3	hr	4.30	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	336.69	628.49	6,515.82	3,958.38	3,625.62	7,482.00	0.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,007.41	1,978.33	21,970.58	13,214.84	11,699.48	24,914.32		
Components (%)									4.0%	7.9%	88.0%	53.0%	47.0%	100.0%		
Unit Rate			m2						1.01	1.98	21.92	13.21	11.69	24.90		

W0004 Burning

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	374.40	0.00	0.00	0.00	374.40	374.40	
L020	Unskilled Labor	md	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,161.60	0.00	0.00	0.00	1,161.60	1,161.60	
L020	Unskilled Labor	md	1.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	403.20	0.00	0.00	0.00	403.20	403.20	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									1,939.20	0.00	0.00	0.00	0.00	1,939.20	1,939.20	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
Unit Rate			m2						1.94	0.00	0.00	0.00	0.00	1.94		

W0011 Demolition by Crawler Drill (Lightly Reinforced Structures)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	256.00	256.00	
R0202-000	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	1,295.00	703.04	591.96	1,295.00	
R0102-061	Backhoe, hydraulic, crawler, 0.8m3	hr	2.50	4.3%	8.4%	87.1%	52.9%	47.1%	1,740.00	195.75	365.40	3,768.85	2,300.22	2,047.78	4,350.00	1.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	30.89	89.95	34.04	87.85	61.89	
Total									739.75	398.35	5,114.80	3,037.30	3,214.59	6,250.89		
Components (%)									11.8%	6.3%	51.6%	49.6%	51.4%	100.0%		
Unit Rate			m3						73.96	39.83	511.41	303.69	321.31	625.00		

Miscellaneous covers the costs for chisel, steel cutters, etc.

W0012 Demolition by Crawler Drill (Heavily Reinforced Structures)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	356.30	0.00	0.00	0.00	356.30	356.30	
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	544.00	0.00	0.00	0.00	544.00	544.00	
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	2,538.20	1,377.95	1,160.25	2,638.20	
R0102-061	Backhoe, hydraulic, crawler, 0.8m3	hr	4.90	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	383.67	718.18	7,428.15	4,608.43	4,017.57	8,626.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	248.20	248.20	270.82	221.88	492.40	4.0%
Total									1,829.57	902.39	10,210.55	6,197.21	6,415.30	12,902.50		
Components (%)									12.7%	7.5%	79.8%	48.1%	51.2%	100.0%		
Unit Rate			m3						182.93	90.22	1,020.86	615.60	641.40	1,280.00		

Miscellaneous covers the costs for chisel, steel cutters, etc.

W0013 Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,312.00	0.00	0.00	0.00	1,312.00	1,312.00	
R0204-020	Pneumatic Breaker, Handhold	day	2.20	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	1,919.40	1,042.11	877.29	1,919.40	
R1002-160	Air Compressor 125-160 cfm (3.6-4.6m3/min)	day	2.10	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,220.14	3,168.86	2,111.92	1,877.08	4,989.00	2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	87.89	87.88	98.67	79.09	175.76	
Total									2,479.60	1,308.92	5,176.14	3,630.69	5,313.07	8,963.76		
Components (%)									45.7%	10.9%	42.1%	40.7%	48.0%	100.0%		
Unit Rate			m3						247.86	130.75	517.40	364.92	531.03	896.00		

Miscellaneous covers the costs for chisel, steel cutters, etc.

W0014 Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,497.60	0.00	0.00	0.00	1,497.60	1,497.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	356.30	0.00	0.00	0.00	356.30	356.30	
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,854.00	0.00	0.00	0.00	3,854.00	3,854.00	
L020	Unskilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,208.00	0.00	0.00	0.00	2,208.00	2,208.00	
R0204-020	Pneumatic Breaker, Handhold	day	5.80	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	2,650.60	1,439.10	1,211.60	2,650.6	

W011 Disposal of Surplus Soil (backhoe loading)

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	268.70	2,682.81	1,628.56	1,451.24	3,079.80
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	10.31	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	628.95	1,114.58	4,483.61	3,156.83	8,227.24	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total									767.54	1,373.38	7,166.12	4,785.39	4,521.85	9,307.04
	Components (%)									8.2%	14.5%	77.0%	51.4%	48.6%	100.0%
	Unit Rate	m3								7.68	13.74	71.68	47.87	45.23	93.10

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 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 9.70 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
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km

W015 Disposal of Surplus Soil (manpower loading)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	0.00	416.00
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	62.83	111.38	447.93	318.38	306.74	622.12
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total									478.83	111.38	447.93	318.38	722.74	1,038.12
	Components (%)									45.1%	10.7%	43.1%	30.4%	69.6%	100.0%
	Unit Rate	m3								47.97	11.16	44.87	31.59	72.41	104.00

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 9.70 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
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km

W021 Borrow Soil, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
M03001	Quarry Royalty (Borrow Soil)	m3	100.00	0.0%	0.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	0.00	1,500.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.88	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	147.20	274.78	2,849.22	1,729.77	1,641.43	3,271.20
R0601-006	Dump Truck, 8.0-12.0 cu-yds (6.9-9.2m3)	hr	21.43	8.1%	17.8%	74.1%	51.8%	48.2%	757.00	1,314.02	2,807.61	12,020.86	8,409.30	7,813.21	18,222.51
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total									1,461.23	4,662.39	14,870.10	10,139.07	10,854.64	20,937.71
	Components (%)									7.0%	22.2%	70.8%	48.3%	51.7%	100.0%
	Unit Rate	m3								14.62	46.64	148.75	101.42	108.58	210.00

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 53.10 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.75
 Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 4.67 m3/hr
 q : Loading Capacity of a Truck = 9.00 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 22.10 km

W022 Crushed Aggregate, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
M03003	Quarry Royalty (Aggregate)	m3	100.00	0.0%	0.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	0.00	1,500.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,594.65	2,312.15	4,905.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	1,120.00	
R0716-010	Aggregate Crusher 100t/hr	hr	2.24	0.0%	5.5%	94.5%	54.1%	45.9%	2,700.00	0.00	332.64	6,716.36	3,272.89	2,776.11	6,048.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,594.65	2,312.15	4,905.80
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	11.74	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	718.19	1,289.28	5,105.49	3,594.69	3,486.27	7,080.96
	Miscellaneous	LS	1.00							127.86	127.86	255.73	204.38	306.87	511.45
	Total									2,405.66	4,664.13	19,824.22	12,261.45	13,825.56	28,084.01
	Components (%)									9.2%	15.5%	75.2%	47.0%	53.0%	100.0%
	Unit Rate	m3								24.07	46.67	198.36	122.69	138.31	281.00

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 35.40 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.50
 Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 8.52 m3/hr
 q : Loading Capacity of a Truck = 5.90 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.30 km

W023 Excavated Soil, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	268.70	2,682.81	1,628.56	1,451.24	3,079.80
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	5.67	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	345.89	613.02	2,465.77	1,736.11	1,688.67	3,424.68
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total									484.48	871.72	5,148.58	3,364.66	3,139.82	6,504.48
	Components (%)									7.4%	13.4%	79.1%	51.7%	48.9%	100.0%
	Unit Rate	m3								4.84	8.71	51.45	33.62	31.38	65.00

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 58.64 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 17.84 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
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 1.00 km

W028 Selected Sand, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
M03002	Quarry Royalty (Sand, Pebbles)	m3	100.00	0.0%	0.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	0.00	1,500.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	169.91	317.17	3,288.72	1,996.69	1,779.21	3,775.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	1,120.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	169.91	317.17	3,288.72	1,996.69	1,779.21	3,775.80
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	10.49	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	839.93	1,134.14	4,561.89	3,211.95	3,124.01	6,335.96
	Miscellaneous	LS	1.00							68.03	165.08	192.06	132.06	198.09	310.15
	Total									2,165.78	3,367.52	11,204.41	7,397.19	9,500.52	18,837.71
	Components (%)									12.5%	20.0%	67.1%	43.6%	56.4%	100.0%
	Unit Rate	m3								21.61	33.60	112.79	73.21	94.79	188.00

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 46.02 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.55
 Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 9.53 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
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.30 km

#0129 Gravel/Stone, transported Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
303004	Quarry Royalty (Gravel/Stone)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,600.00	0.00	0.00	1,600.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,694.66	2,312.16	4,906.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	0.00	1,120.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,694.66	2,312.16	4,906.80
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.74	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	716.19	1,269.28	5,105.49	3,496.27	7,090.96	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	78.10	117.15	195.25	156.20	234.29	390.49	
	Total								2,355.90	3,710.77	13,848.38	8,940.18	10,974.87	19,915.05	
	Components (%)								11.8%	18.6%	59.5%	44.9%	55.1%	100.0%	
	Unit Rate	m3							23.54	37.09	138.38	89.33	109.67	199.00	

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.

- Q = 3600-q/F/E/Cm (Backhoe)
- Q = Excavation Volume per hour = 35.4 m3/h
- q = Excavation Volume per Cycle = 0.69 m3
- F = Volume Coefficient = 1.00
- E = Efficiency = 0.80
- Cm = Cycle Time = 30 sec
- Q = q*F/E/Cm (Dump Truck)
- Q = Transportation Volume per hour = 8.82 m3/hr
- q = Loading Capacity of a Truck = 6.90 m3
- F = Volume Coefficient = 1.00
- E = Efficiency = 0.90
- Cm = Cycle Time = A + 2*L/V = 0.62 hr
- V = Vehicle speed = 30.00 km/hr
- L = Loading time = 0.27 hr
- L = Average Distance from Quarry = 6.30 km

#0131 Backfill A Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	156.60	292.32	3,031.09	1,840.18	1,639.82	3,480.00
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	2.00	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	162.00	421.20	4,816.80	2,893.27	2,506.73	5,400.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								318.60	713.52	7,847.89	4,733.44	4,146.55	8,880.00	
	Components (%)								3.6%	8.0%	88.4%	53.3%	46.7%	100.0%	
	Unit Rate	m3							3.18	7.14	78.48	47.33	41.47	88.80	

#0132 Backfill B Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L020	Unskilled Labor	md	1.72	100.0%	0.0%	0.0%	100.0%	320.00	550.40	0.00	0.00	0.00	550.40	850.40	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.80	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	219.24	409.25	4,243.61	2,676.25	2,295.76	4,872.00
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.20	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	97.20	252.72	2,890.08	1,735.96	1,604.04	3,240.00
R0307-000	Plate Compactor	day	3.12	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	430.75	2,002.85	1,267.75	1,065.85	2,433.60
R0306-006	Vibration Rammer, 6in	day	0.28	0.0%	49.4%	50.6%	59.7%	40.3%	159.00	0.00	21.85	22.30	26.40	17.84	44.24
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								866.64	1,114.57	9,158.83	5,706.36	5,433.98	11,402.24	
	Components (%)								7.8%	10.0%	82.2%	51.2%	49.8%	100.0%	
	Unit Rate	m3							8.64	11.11	91.25	56.88	54.11	111.00	

#0133 Backfill C Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	100.0%	320.00	1,376.00	0.00	0.00	0.00	1,376.00	1,376.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	4.60	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	313.20	594.84	6,062.16	3,680.38	3,278.65	6,880.00
R0307-000	Plate Compactor	day	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,076.87	5,007.15	3,419.36	2,861.64	6,084.00
R0306-006	Vibration Rammer, 6in	day	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	159.00	0.00	54.84	55.96	66.00	44.60	110.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,899.20	1,716.14	11,125.26	7,165.72	7,364.69	14,530.60	
	Components (%)								11.6%	11.8%	76.6%	49.3%	50.7%	100.0%	
	Unit Rate	m3							18.99	17.13	111.02	71.51	73.49	145.00	

#0134 Backfill D Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	100.0%	320.00	2,240.00	0.00	0.00	0.00	2,240.00	2,240.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	6.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	469.80	876.96	9,093.24	5,620.53	4,918.47	10,440.00
R0307-000	Plate Compactor	day	8.00	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,104.48	5,135.62	3,507.04	2,732.96	6,240.00
R0306-006	Vibration Rammer, 6in	day	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	159.00	0.00	546.36	559.64	660.02	445.98	1,105.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								2,709.80	2,527.80	14,788.40	9,687.59	10,338.41	20,026.00	
	Components (%)								13.5%	12.6%	73.8%	49.4%	51.6%	100.0%	
	Unit Rate	m3							27.09	25.28	147.89	96.78	103.38	200.26	

#0135 Backfill, Manpower + Compactor Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	100.0%	320.00	608.00	0.00	0.00	0.00	608.00	608.00	
R0307-000	Plate Compactor	day	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.66	124.80
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	159.00	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	
	Total								608.00	43.16	124.30	95.60	878.66	775.46	
	Components (%)								78.4%	5.6%	16.0%	12.3%	87.7%	100.0%	
	Unit Rate	m3							60.76	4.31	12.42	9.55	87.95	77.50	

#0141 Filling & Laying, bulldozer 15t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.02	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	62.82	214.81	2,456.57	1,475.57	1,278.43	2,754.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								62.82	214.81	2,456.57	1,475.57	1,278.43	2,754.00	
	Components (%)								3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3							0.63	2.15	24.53	14.73	12.77	27.50	

- Q = 10-E*(13-D * 9)
- Q = Filling Volume per hour = 98 m3/hr
- E = Efficiency = 0.80
- D = Layer thickness = 0.250 m

#0142 Filling & Laying, bulldozer 21t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.71	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	47.26	239.24	2,667.10	1,602.96	1,350.64	2,953.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								47.26	239.24	2,667.10	1,602.96	1,350.64	2,953.60	
	Components (%)								1.6%	8.1%	89.2%	54.3%	45.7%	100.0%	
	Unit Rate	m3							0.47	2.39	26.64	16.01	13.49	29.50	

- Q = 10-E*(18-D * 13)
- Q = Filling Volume per hour = 140 m3/hr
- E = Efficiency = 0.80
- D = Layer thickness = 0.250 m

#0145 Compaction, bulldozer 15t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	0.89	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	72.09	187.43	2,143.48			

W0146 Compaction, bulldozer 21t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/dozor (Bulldozer, 21t)	hr	0.63	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	41.93	212.28	2,366.58	1,422.35	1,198.45	2,620.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								41.93	212.28	2,366.58	1,422.35	1,198.45	2,620.80	
	Components (%)								1.6%	8.1%	90.3%	54.3%	45.7%	100.0%	
	Unit Rate	m3							0.42	2.12	23.66	14.22	11.98	26.20	

Q = V·W·D·E/N
 Q : Compaction Volume per hour = 157.5 m3/hr
 V : Compaction speed = 3500 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.80
 N : Number of Compaction = 4 times

W0147 Compaction, tire roller 8~20t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.63	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	45.94	83.53	914.63	550.54	493.56	1,044.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								45.94	83.53	914.63	550.54	493.56	1,044.10	
	Components (%)								4.4%	8.0%	87.6%	52.7%	47.3%	100.0%	
	Unit Rate	m3							0.46	0.83	9.11	5.48	4.92	10.40	

Q = V·W·D·E/N
 Q : Compaction Volume per hour = 189 m3/hr
 V : Compaction speed = 3500 m/hr
 W : Effective compaction width = 1.800 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.60
 N : Number of Compaction = 5 times

W0148 Compaction, camper Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00
R0308-006	Vibration Rammer, 6in	dav	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	168.00	0.00	21.07	21.69	26.46	17.20	42.66
R0307-009	Plate Compactor	dav	0.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	110.45	513.55	350.70	273.30	624.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								96.00	131.52	535.14	376.16	368.50	762.66	
	Components (%)								12.6%	17.2%	70.2%	49.3%	50.7%	100.0%	
	Unit Rate	m3							9.60	13.15	53.51	37.62	36.85	76.27	

W0149 Filling, Laying & Compaction, bulldozer 21t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/dozor (Bulldozer, 21t)	hr	1.35	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	89.86	454.90	5,071.25	3,047.89	2,668.11	5,616.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								89.86	454.90	5,071.25	3,047.89	2,668.11	5,616.00	
	Components (%)								1.6%	8.1%	90.3%	54.3%	45.7%	100.0%	
	Unit Rate	m3							0.90	4.55	50.75	30.60	26.70	56.20	

Q = Q1·Q2 / (Q1+Q2)
 Q1 = V·W·D·E/N
 Q1 : Compaction Volume per hour = 157.5 m3/hr
 V : Compaction speed = 3,500 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.600
 N : Number of Compaction = 4 times
 Q2 = 10·E·(18·D + 13)
 Q2 : Filling Volume per hour = 140.00 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

W0150 Filling, Laying & Compaction, bulldozer 15t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-015	Tractor, crawler w/dozor (Bulldozer, 15t)	hr	1.91	3.0%	7.6%	89.2%	53.6%	46.4%	2,700.00	154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00	
	Components (%)								3.0%	7.6%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3							1.55	4.02	46.03	27.63	23.94	51.60	

Q = Q1·Q2 / (Q1+Q2)
 Q1 = V·W·D·E/N
 Q1 : Compaction Volume per hour = 112 m3/hr
 V : Compaction speed = 3,500 m/hr
 W : Effective compaction width = 0.800 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.800
 N : Number of Compaction = 5 times
 Q2 = 10·E·(13·D + 9)
 Q2 : Filling Volume per hour = 98.00 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

W0151 Slope Formation by Bulldozer Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00
R0101-015	Tractor, crawler w/dozor (Bulldozer, 15t)	hr	1.40	3.0%	7.6%	89.2%	53.6%	46.4%	2,700.00	113.40	294.84	3,371.76	2,025.29	1,764.71	3,780.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								299.00	294.84	3,371.76	2,025.29	1,949.31	3,965.60	
	Components (%)								7.5%	7.4%	85.0%	51.1%	48.9%	100.0%	
	Unit Rate	m2							2.99	2.95	33.70	20.25	19.42	39.70	

W0152 Slope Formation by Backhoe Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	224.00	0.00	0.00	0.00	224.00	224.00
R0102-081	Backhoe, hydraulic, crawler, 0.8m3	hr	2.60	4.6%	8.4%	87.1%	52.9%	47.1%	1,740.00	203.68	380.02	3,940.40	2,392.23	2,131.77	4,524.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								485.18	380.02	3,940.40	2,392.23	2,131.77	4,805.60	
	Components (%)								10.1%	7.9%	82.0%	49.8%	50.2%	100.0%	
	Unit Rate	m2							4.86	3.80	39.44	23.94	21.32	48.10	

W0161 Gravel Foundation Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	288.86	486.79	2,356.35	1,472.28	1,659.72	3,132.00
	Miscellaneous	LS	1.00	0.0%	0.0%	25.0%	75.0%	45.0%	0.00	0.00	86.20	63.21	61.72	114.93	
	Total								987.86	515.53	2,412.55	1,535.49	2,110.44	3,916.93	
	Components (%)								25.0%	13.1%	61.9%	38.0%	31.1%	100.0%	
	Unit Rate	m3							82.99	51.61	244.51	153.71	211.29	391.60	

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

W0162 Selected Sand Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00
W0128	Selected Sand, transported	m3	12.00	12.9%	20.0%	67.1%	43.6%	55.4%	168.00	259.31	403.20	1,353.49	878.49	1,137.51	2,016.00
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	45.0%	45.0%	0.00	0.00	20.36	81.09	44.80	36.65	81.45
	Total								958.31	423.56	1,414.58	923.29	1,873.16	2,796.45	
	Components (%)								34.3%	15.1%	50.6%	33.0%	67.0%	100.0%	
	Unit Rate	m3							79.86	35.30	117.88	76.94	156.10	279.65	

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

W0201		Lean Concrete (17MPa, max agg. 38mm)										Unit: 10.00 m ³				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.30	0.0%	100.0%	0.0%	0.0%	40.0%	3,375.00	0.00	11,137.50	0.00	6,682.50	4,455.00	11,137.50	
W0122	Crushed Aggregate, transported	m ³	4.59	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	110.49	188.50	901.30	563.15	634.84	1,197.99	
W0128	Selected Sand, transported	m ³	3.19	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	68.93	107.18	309.80	233.53	302.99	535.92	
M01010	Water Supply	m ³	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0701-040	Concrete Batch Plant 40m ³ /hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m ³)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		29.11	130.98	130.98	143.53	145.53	291.06	
Total									399.24	11,793.18	2,651.46	8,387.82	6,458.06	14,843.88		
Components (%)									2.7%	73.4%	17.9%	56.5%	43.5%	100.0%		
Unit Rate									39.92	1,179.32	265.15	838.78	645.81	1,484.39		
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement = 324.00 kg/m ³ Plant Daily Operation = 5.53 hr																
Aggregate (max 20mm) = 1,106.00 kg/m ³ Concrete Mixer Truck Capacity = 4.30 m ³																
Sand = 757.00 kg/m ³ Transportation Time = 2-L/V + .16 = 0.31 hr																
Water = 175.00 kg/m ³ L : Transportation Distance = 1.90 km																
Admixture = 0.00 kg/m ³ V : Transportation Velocity = 25.00 km/hr																

W0202		Concrete (Class B, 17MPa, max agg. 50mm)										Unit: 10.00 m ³				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	2.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	8,888.75	0.00	5,933.25	3,985.50	9,888.75	
W0122	Crushed Aggregate, transported	m ³	5.48	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	131.91	222.30	1,075.07	672.34	767.94	1,430.28	
W0128	Selected Sand, transported	m ³	2.70	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	58.35	90.72	304.64	187.65	255.94	453.60	
M01010	Water Supply	m ³	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0701-040	Concrete Batch Plant 40m ³ /hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m ³)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		26.89	120.97	120.97	134.41	134.41	268.82	
Total									407.85	10,540.82	2,760.94	7,699.44	6,010.17	13,709.62		
Components (%)									3.0%	76.9%	20.1%	56.2%	43.8%	100.0%		
Unit Rate									40.78	1,054.08	276.09	769.94	601.02	1,370.96		
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement = 287.00 kg/m ³ Plant Daily Operation = 5.53 hr																
Aggregate (max 40mm) = 1,321.00 kg/m ³ Concrete Mixer Truck Capacity = 4.30 m ³																
Sand = 641.00 kg/m ³ Transportation Time = 2-L/V + .16 = 0.31 hr																
Water = 155.00 kg/m ³ L : Transportation Distance = 1.90 km																
Admixture = 0.00 kg/m ³ V : Transportation Velocity = 25.00 km/hr																

W0203		Concrete (Class A, 21MPa, max agg. 38mm)										Unit: 10.00 m ³				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.84	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,885.00	0.00	7,371.00	4,914.00	12,285.00	
W0122	Crushed Aggregate, transported	m ³	4.92	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	109.80	183.36	887.56	554.56	625.16	1,179.72	
W0128	Selected Sand, transported	m ³	3.14	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	67.85	105.50	354.16	229.87	297.65	527.52	
M01010	Water Supply	m ³	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0701-040	Concrete Batch Plant 40m ³ /hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m ³)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		31.35	141.08	141.08	156.74	158.74	313.47	
Total									399.72	12,946.25	2,642.16	9,076.26	6,911.85	15,987.12		
Components (%)									2.5%	81.0%	18.5%	55.8%	43.2%	100.0%		
Unit Rate									39.97	1,294.63	264.22	907.63	691.19	1,598.71		
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement = 357.00 kg/m ³ Plant Daily Operation = 5.53 hr																
Aggregate (max 40mm) = 1,089.00 kg/m ³ Concrete Mixer Truck Capacity = 4.30 m ³																
Sand = 746.00 kg/m ³ Transportation Time = 2-L/V + .16 = 0.31 hr																
Water = 175.00 kg/m ³ L : Transportation Distance = 1.90 km																
Admixture = 0.00 kg/m ³ V : Transportation Velocity = 25.00 km/hr																

W0203a		Concrete (Class A1, 21MPa, max agg. 20mm)										Unit: 10.00 m ³				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.86	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,027.50	0.00	7,816.50	5,211.00	13,027.50	
W0122	Crushed Aggregate, transported	m ³	4.08	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	98.21	165.51	801.16	500.57	584.31	1,064.88	
W0128	Selected Sand, transported	m ³	3.34	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	72.18	112.22	376.72	244.51	316.61	561.12	
M01010	Water Supply	m ³	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	122.47	0.00	12.25	110.22	122.47	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0701-040	Concrete Batch Plant 40m ³ /hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m ³)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		32.68	147.07	147.07	166.74	168.74	324.82	
Total									399.78	13,690.25	2,584.33	9,488.78	7,179.69	16,688.36		
Components (%)									2.4%	82.1%	15.5%	56.9%	43.1%	100.0%		
Unit Rate									39.98	1,369.03	258.43	948.88	717.97	1,668.84		
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement = 378.00 kg/m ³ Plant Daily Operation = 5.53 hr																
Aggregate (max 40mm) = 984.00 kg/m ³ Concrete Mixer Truck Capacity = 4.30 m ³																
Sand = 793.00 kg/m ³ Transportation Time = 2-L/V + .16 = 0.31 hr																
Water = 185.00 kg/m ³ L : Transportation Distance = 1.90 km																
Admixture = 0.00 kg/m ³ V : Transportation Velocity = 25.00 km/hr																

W0204		Concrete (Class C, 21MPa, max agg. 12mm)										Unit: 10.00 m ³				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.96	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,365.00	0.00	8,019.00	5,346.00	13,365.00	
W0122	Crushed Aggregate, transported	m ³	3.71	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	89.30	150.50	728.50	455.18	513.13	988.31	
W0128	Selected Sand, transported	m ³	3.57	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	77.15	119.95	402.66	261.35	338.41	599.78	
M01010	Water Supply	m ³	1.90	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	126.78	0.00	13.20	113.20	126.78	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0701-040	Concrete Batch Plant 40m ³ /hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46					

W0205 Concrete (Class AAL, 28MPa, max agg. 25mm)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	676.00	34.56	0.00	0.00	0.00	0.00	34.56
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40
M03011	Portland Cement, ordinary	t	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,690.00	0.00	7,614.00	5,076.00	12,690.00
W0122	Crushed Aggregate, transported	m3	4.70	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	113.14	190.66	922.90	576.64	650.06	1,228.70
W0128	Selected Sand, transported	m3	2.76	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	69.64	92.74	311.30	202.05	261.63	463.68
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	1,160.00	34.21	154.40	154.40	171.55	343.11	2.0%
Total										391.80	14,452.72	2,647.88	10,100.82	7,397.67	17,498.50
Components (%)										2.3%	82.64%	15.13%	57.7%	42.3%	100.0%
Unit Rate										39.18	1,445.40	264.92	1,010.17	739.83	1,750.00

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.

Cement = 369.00 kg/m3 Plant Daily Operation = 5.53 hr
Aggregate (max 25mm) = 1,132.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
Sand = 655.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.31 hr
Water = 185.00 kg/m3 L : Transportation Distance = 1.90 km
Admixture = 0.92 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0206 Concrete (Class AA2, 28MPa, max agg. 20mm)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	676.00	34.56	0.00	0.00	0.00	0.00	34.56
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40
M03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,533.78	0.00	8,120.25	5,413.50	13,533.78
W0122	Crushed Aggregate, transported	m3	4.15	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	99.90	156.35	814.99	509.16	573.99	1,083.16
W0128	Selected Sand, transported	m3	3.00	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	64.83	100.80	335.31	219.62	284.36	504.00
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23
M03401	Admixture	kg	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,180.00	0.00	826.00	354.00	1,180.00
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	1,160.00	35.95	151.78	151.78	179.76	359.51	2.0%
Total										391.39	15,369.38	2,574.43	10,617.24	7,717.96	18,335.20
Components (%)										2.1%	83.8%	14.0%	57.9%	42.1%	100.0%
Unit Rate										39.06	1,536.99	257.44	1,059.69	770.31	1,830.00

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.

Cement = 393.00 kg/m3 Plant Daily Operation = 5.53 hr
Aggregate (max 20mm) = 999.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
Sand = 713.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.31 hr
Water = 165.00 kg/m3 L : Transportation Distance = 1.90 km
Admixture = 0.98 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0208 Concrete (Class PP, 41MPa, max agg. 20mm)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	676.00	34.56	0.00	0.00	0.00	0.00	34.56
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40
M03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,166.25	0.00	9,099.75	6,066.50	16,166.25
W0122	Crushed Aggregate, transported	m3	3.98	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	95.80	161.45	781.52	488.31	550.47	1,038.78
W0128	Selected Sand, transported	m3	3.01	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	65.94	101.14	339.50	220.35	285.33	505.68
M01010	Water Supply	m3	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61
M03401	Admixture	kg	12.04	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,420.72	0.00	994.50	424.22	1,420.72
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	1,160.00	41.60	187.20	187.20	208.00	415.99	2.0%
Total										393.16	18,254.64	2,567.59	12,372.70	8,842.90	21,215.59
Components (%)										1.9%	86.0%	12.1%	58.3%	41.7%	100.0%
Unit Rate										39.29	1,825.46	256.76	1,237.27	884.29	2,121.56

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.

Cement = 470.00 kg/m3 Plant Daily Operation = 5.53 hr
Aggregate (max 20mm) = 860.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
Sand = 714.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.31 hr
Water = 155.00 kg/m3 L : Transportation Distance = 1.90 km
Admixture = 1.18 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0211 Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	676.00	34.56	0.00	0.00	0.00	0.00	34.56
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40
M03011	Portland Cement, ordinary	t	3.08	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.60	0.00	6,196.60	4,131.00	10,327.60
W0122	Crushed Aggregate, transported	m3	5.62	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	135.28	227.98	1,103.56	689.52	777.30	1,466.82
W0128	Selected Sand, transported	m3	2.41	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	52.08	80.98	271.83	175.43	228.45	404.88
M01010	Water Supply	m3	1.35	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	69.37	0.00	6.94	62.43	69.37
M03401	Admixture	kg	7.65	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	902.70	0.00	631.89	270.81	902.70
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	1,160.00	29.51	132.81	132.81	147.57	295.14	2.0%
Total										407.59	11,876.81	2,767.57	8,602.97	6,449.60	15,051.97
Components (%)										2.7%	78.9%	18.4%	51.2%	42.8%	100.0%
Unit Rate										40.76	1,187.68	276.76	860.30	644.96	1,505.20

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.

Cement = 300.00 kg/m3 Plant Daily Operation = 5.53 hr
Aggregate (max 20mm) = 1,354.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
Sand = 571.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.31 hr
Water = 135.00 kg/m3 L : Transportation Distance = 1.90 km
Admixture = 0.75 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0215 Concrete (for RCPC, 28MPa, max agg. 20mm)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	676.00	34.56	0.00	0.00	0.00	0.00	34.56
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40
M03011	Portland Cement, ordinary	t	3.74	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,622.50	0.00	7,673.50	5,049.00	12,622.50
W0122	Crushed Aggregate, transported	m3	4.20	9.2%	15.5%	75.2%	47.0%	53.0%	261.00	101.10	170.38	824.72	515.30	580.90	1,096.20
W0128	Selected Sand, transported	m3	3.04	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	65.69	102.14	342.89	222.65	288.17	610.72
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.85	846.80
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	1,160.00	34.02	153.10	153.10	170.11	340.22	

W0216 Concrete (for RCPC, 32MPa, max agg. 20mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
NO3011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	14,951.29	0.00	8,970.75	5,980.50	14,951.29	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.06	9.2%	15.5%	75.2%	47.0%	53.0%	201.00	97.73	164.70	797.23	498.12	561.54	1,059.66	Loss 10.0%
W0128	Selected Sand, transported	m3	2.95	12.9%	20.0%	67.1%	43.6%	56.4%	168.00	63.75	99.12	332.73	215.96	278.84	495.60	Loss 10.0%
NO1010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23	
NO3401	Admixture	kg	11.12	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,312.16	0.00	918.51	393.65	1,312.16	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,680.00	23.94	45.04	543.83	317.58	296.22	813.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.73	7.3%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.82	69.44	715.55	433.95	412.65	846.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	38.99	39.99	175.44	175.44	194.93	194.93	389.87	2.0%
	Total								391.18	10,927.37	2,564.78	11,560.13	8,322.60	19,883.33		
	Components (%)								2.0%	85.1%	12.8%	58.1%	41.9%	100.0%		
	Unit Rate	m3							39.12	1,092.74	256.48	1,156.01	832.26	1,988.33		

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 434.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 979.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 699.00 kg/m3 Transportation Time = 2*L/V * .16 = 0.31 hr
 Water = 165.00 kg/m3 L : Transportation Distance = 1.90 km
 Admixture = 1.09 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0221 Mortar (1:3)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
NO3011	Portland Cement, ordinary	t	4.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,638.78	0.00	9,983.25	6,654.50	16,638.75	Loss 2.0%
W0128	Selected Sand, transported	m3	6.11	12.9%	20.0%	67.1%	43.6%	58.4%	168.00	132.03	205.29	689.15	447.30	579.18	1,026.48	Loss 10.0%
NO1010	Water Supply	m3	2.17	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	143.65	0.00	14.37	129.29	143.65	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	38.99	18.03	81.15	81.15	90.16	90.16	180.32	1.0%
	Total								303.87	17,072.41	836.79	10,573.49	7,639.32	18,212.94		
	Components (%)								1.7%	93.7%	4.6%	58.1%	41.9%	100.0%		
	Unit Rate	m3							30.39	1,707.24	83.68	1,057.35	763.93	1,821.30		

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 481.00 kg/m3
 Sand = 1,449.00 kg/m3
 Water = 217.00 kg/m3

W0222 Mortar (1:2)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
NO3011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25	Loss 2.0%
W0128	Selected Sand, transported	m3	7.88	12.9%	20.0%	67.1%	43.6%	58.4%	168.00	170.28	284.77	886.79	576.69	746.96	1,323.84	Loss 10.0%
NO1010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	38.99	23.16	104.24	104.24	115.82	115.82	231.64	1.0%
	Total								347.05	21,989.18	1,059.46	13,608.39	9,787.30	23,395.69		
	Components (%)								1.5%	94.0%	4.6%	58.1%	41.9%	100.0%		
	Unit Rate	m3							34.71	2,198.92	105.95	1,360.84	978.73	2,339.57		

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 623.00 kg/m3
 Sand = 1,869.00 kg/m3
 Water = 280.00 kg/m3

W0225 Grout (non-shrink)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
NO3011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25	Loss 2.0%
W0128	Selected Sand, transported	m3	5.25	12.9%	20.0%	67.1%	43.6%	58.4%	168.00	113.46	178.40	692.15	384.34	472.50	882.00	Loss 10.0%
NO3402	Non-shrink Admixture	kg	19.06	0.0%	100.0%	0.0%	70.0%	30.0%	392.00	0.00	7,471.52	0.00	5,230.06	2,241.46	7,471.52	Loss 2.0%
NO1010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	38.99	30.19	135.87	135.87	150.97	150.97	301.94	1.0%
	Total								287.24	25,403.97	194.48	13,681.07	11,614.60	30,495.87		
	Components (%)								1.0%	85.4%	2.6%	61.3%	38.7%	100.0%		
	Unit Rate	m3							28.72	2,540.40	19.45	1,368.11	1,161.46	3,049.59		

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 623.00 kg/m3
 Sand = 1,246.00 kg/m3
 Water = 280.00 kg/m3
 Admixture = 1.87 kg/m3

W0231 Concrete Pouring by Pump Vehicle (plain concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L015	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.77	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	1,686.30	900.98	785.32	1,686.30	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%	38.99	0.00	4.19	37.68	23.03	18.64	41.87	2.0%
	Total								407.20	4.19	1,723.98	924.01	1,211.36	2,135.37		
	Components (%)								19.1%	0.2%	80.7%	43.3%	55.7%	100.0%		
	Unit Rate	m3							40.81	0.42	172.39	92.40	121.14	213.54		

Miscellaneous covers the cost for vibrator, generator, etc.

W0232 Concrete Pouring by Pump Vehicle (reinforced concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.97	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	2,124.30	1,135.00	989.30	2,124.30	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%								

W0234 Concrete Pouring by Truck Crane													Unit: 10.00 m3				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	0.00	115.20		
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	0.00	328.00		
L020	Unskilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	289.00	0.00	0.00	0.00	0.00	289.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.90	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	142.31	158.64	1,734.15	1,046.03	986.97	2,033.00		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	6.63	49.76	30.41	24.88	55.28	2.0%	
Total									873.51	162.07	1,783.90	1,076.43	1,743.05	2,819.49			
Components (%)									31.0%	5.7%	63.3%	38.2%	61.8%	100.0%			
Unit Rate			m3						87.35	16.21	178.39	107.64	174.31	281.95			

Miscellaneous covers the cost for vibrator, concrete bucket, etc.

W0235 Concrete Pouring by Manpower for small structures													Unit: 10.00 m3				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80		
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	658.00	0.00	0.00	0.00	658.00	658.00		
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	1,120.00	1,120.00		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	4.47	40.26	24.60	20.13	44.74	2.0%	
Total									2,236.00	4.47	40.26	24.60	2,256.93	2,281.54			
Components (%)									99.0%	0.2%	1.8%	1.1%	98.9%	100.0%			
Unit Rate			m3						223.60	0.45	4.02	2.46	225.54	228.00			

Miscellaneous covers the cost for chute, vibrator, supports, shovels, etc.

W0236 Concrete Curing (plain concrete)													Unit: 10.00 m3				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	7.87	18.37	14.43	11.81	26.24	41.0%	
Total									64.00	7.87	18.37	14.43	75.81	90.24			
Components (%)									70.9%	8.7%	20.4%	16.0%	81.0%	100.0%			
Unit Rate			m3						6.40	0.79	1.84	1.44	7.58	9.02			

Miscellaneous covers the cost of equipment and materials necessary for watering such as pumps, generator, fuel, curing sheets, etc.

W0237 Concrete Curing (reinforced concrete)													Unit: 10.00 m3				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L020	Unskilled Labor	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	32.00	0.00	0.00	0.00	32.00	32.00		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	3.26	7.82	5.98	4.90	10.86	34.0%	
Total									32.00	3.26	7.82	5.98	36.90	42.86			
Components (%)									74.8%	7.8%	17.8%	14.0%	88.0%	100.0%			
Unit Rate			m3						3.20	0.33	0.78	0.60	3.69	4.29			

Miscellaneous covers the cost of equipment and materials necessary for watering such as pumps, generator, fuel, curing sheets, etc.

W0240 Formwork (plain concrete R(4m))													Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,843.20	0.00	0.00	0.00	1,843.20	1,843.20		
L005	Carpenter	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	6,674.80	0.00	0.00	0.00	6,674.80	6,674.80		
L020	Unskilled Labor	md	14.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,768.00	0.00	0.00	0.00	4,768.00	4,768.00		
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.00	5,994.00		
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,665.00	2,665.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	263.76	175.84	219.80	219.80	439.60	2.0%	
Total									13,286.00	8,957.76	175.84	554.50	21,765.10	22,419.60			
Components (%)									59.3%	40.0%	0.8%	2.9%	97.1%	100.0%			
Unit Rate			m2						132.74	89.50	1.76	5.54	217.46	224.00			

Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.

W0241 Formwork (reinforced concrete R(4m))													Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,843.20	0.00	0.00	0.00	1,843.20	1,843.20		
L005	Carpenter	md	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	7,396.40	0.00	0.00	0.00	7,396.40	7,396.40		
L020	Unskilled Labor	md	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,288.00	0.00	0.00	0.00	4,288.00	4,288.00		
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.00	5,994.00		
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,665.00	2,665.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	268.68	177.77	222.22	222.22	444.44	2.0%	
Total									13,527.60	8,960.68	177.77	554.50	22,009.12	22,656.03			
Components (%)									59.7%	39.5%	0.8%	2.9%	97.1%	100.0%			
Unit Rate			m2						135.48	89.74	1.78	5.58	220.42	227.00			

Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.

W0242 Formwork (reinforced concrete R(2.4m))													Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	3.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,785.60	0.00	0.00	0.00	1,785.60	1,785.60		
L005	Carpenter	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	7,170.90	0.00	0.00	0.00	7,170.90	7,170.90		
L020	Unskilled Labor	md	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,160.00	0.00	0.00	0.00	4,160.00	4,160.00		
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.00	5,994.00		
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,665.00	2,665.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	5.71	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	427.68	470.45	5,211.87	3,143.58	2,966.11	6,109.70		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	279.20	223.36	279.20	279.20	558.40	2.0%	
Total									13,544.18	9,499.49	5,434.94	3,857.49	24,621.11	28,478.60			
Components (%)									47.0%	34.4%	19.1%	13.5%	86.8%	100.0%			
Unit Rate			m2						135.44	95.07	54.39	38.60	245.40	285.00			

Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.

W0243 Formwork (lean concrete)													Unit: 10.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60		
L005	Carpenter	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	451.00	0.00	0.00	0.00	451.00	451.00		
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00		
M05001	Formwork Lumber, use 4 times	m3	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	29.60	562.40	592.00		
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	10.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	270.00	0.00	13.60	266.60	270.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	17.98	11.99	14.99	14.99	29.97	2.0%	
Total									636.60	879.98	11.99	58.09	1,470.49	1,528.57			
Components (%)									41.6%	57.6%	0.8%	3.9%	96.2%	100.0%			
Unit Rate			m2						63.72	88.00	1.20	5.81	147.19	152.86			

Miscellaneous covers the

W0246 Formwork Installation and Removal for PC Box Girder (Cantilever Construction)

Unit: 10.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	334.08	0.00	0.00	0.00	334.08	334.08
L005	Carpenter	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	1,856.12	0.00	0.00	0.00	1,856.12	1,856.12
L020	Unskilled Labor	md	2.28	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	729.60	0.00	0.00	0.00	729.60	729.60
M05001	Formwork Lumber, use 4 times	m ³	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	29.60	562.40	592.00
M05002	Formwork, Plywood 5x1200x2400, use 3 times	m ²	10.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	270.00	0.00	13.50	266.50	270.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	7.0%	7.7%	85.3%	61.5%	48.5%	1,070.00	69.92	65.91	730.17	440.43	416.57	866.00
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	55.0%	45.0%	0.00	0.00	83.82	9.28	61.04	41.78	92.80
	Total									2,891.72	1,011.43	739.45	534.57	4,198.03	4,732.60
	Components (%)									63.0%	21.4%	15.6%	11.3%	88.7%	100.0%
	Unit Rate									298.01	101.09	73.90	53.43	419.57	473.00

Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.

W0251 Reinforcement Grade 40, cutting, bending & assembly

Unit: 1,000.00 kg

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	493.20	0.00	0.00	0.00	493.20	493.20
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,896.00	0.00	0.00	0.00	1,896.00	1,896.00
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	1,024.00	1,024.00
M02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	17,120.00	0.00	11,128.00	5,992.00	17,120.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	61.66	664.10	393.92	364.18	788.10
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	771.74	1,157.61	1,061.15	888.21	1,929.36
	Total									3,601.65	17,943.20	1,821.71	12,583.69	20,366.66	
	Components (%)									15.4%	76.8%	7.8%	53.9%	46.1%	100.0%
	Unit Rate									3.61	17.97	1.82	12.60	20.37	20.37

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

W0252 Reinforcement Grade 60, cutting, bending & assembly

Unit: 1,000.00 kg

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	493.20	0.00	0.00	0.00	493.20	493.20
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,896.00	0.00	0.00	0.00	1,896.00	1,896.00
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	1,024.00	1,024.00
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.37	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	61.66	664.10	393.92	364.18	788.10
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	810.26	1,215.39	1,114.11	911.55	2,025.66
	Total									3,601.65	19,051.81	1,879.49	13,331.43	24,532.90	
	Components (%)									14.7%	77.7%	7.7%	54.3%	45.7%	100.0%
	Unit Rate									3.60	19.03	1.88	13.31	24.53	24.53

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

W0303 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #460 (18")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
W0215	Concrete (for RCPC, 25MPa, max)	m ³	1.03	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	40.44	1,486.26	266.49	1,034.82	757.38	1,792.20
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	41.09	0.51	218.98	117.35	143.23	260.59
W0237	Concrete Curing (reinforced concrete)	m ³	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.23	0.33	0.77	0.60	3.73	4.33
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	92.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	331.63	1,754.23	173.06	1,227.52	1,031.38	2,258.90
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	9.04	6.42	43.86	27.38	30.94	59.32
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.16	10.1%	17.9%	72.0%	50.7%	49.3%	804.00	9.76	17.30	63.66	46.99	47.66	95.64
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	80.48	241.43	482.66	362.18	442.63	804.77	
	Total									515.87	3,504.49	1,255.60	2,818.81	2,455.90	5,275.74
	Components (%)									9.8%	66.4%	23.8%	53.4%	48.6%	100.0%
	Unit Rate									51.61	350.73	125.56	281.88	245.59	528.00

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

W0304 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #610 (24")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
W0215	Concrete (for RCPC, 25MPa, max)	m ³	1.60	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	62.82	2,307.21	413.97	1,607.49	1,176.51	2,784.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	63.88	0.79	340.39	182.42	222.64	405.06
W0237	Concrete Curing (reinforced concrete)	m ³	1.67	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.03	0.51	1.20	0.94	5.80	6.74
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	160.70	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	578.01	3,057.51	301.63	2,139.50	1,797.65	3,937.15
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	13.56	8.14	65.76	41.07	48.41	87.48
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.25	10.1%	17.9%	72.0%	50.7%	49.3%	804.00	15.25	27.03	108.72	76.55	74.45	151.00
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	80.48	241.43	482.66	362.18	442.63	804.77	
	Total									671.23	5,799.25	2,027.80	4,548.05	4,053.24	8,698.29
	Components (%)									10.8%	66.7%	23.3%	53.4%	48.6%	100.0%
	Unit Rate									67.14	580.04	202.82	454.80	405.40	870.00

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

W0305 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #760 (30")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
W0215	Concrete (for RCPC, 25MPa, max)	m ³	2.30	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	90.30	3,316.61	596.08	2,310.77	1,691.23	4,002.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	2.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	91.54	1.14	487.82	261.42	319.08	880.50
W0237	Concrete Curing (reinforced concrete)	m ³	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.35	8.30	9.65
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	888.41	4,699.48	463.61	3,288.48	2,763.04	6,051.50
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	19.69	11.76	95.02	69.32	67.04	126.36
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.37	10.1%	17.9%	72.0%	50.7%	49.3%	804.00	22.57	40.00	160.91	113.29	110.19	223.48
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%								

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	4.05	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	189.01	6,840.12	1,047.87	4,068.97	2,978.03	7,047.00	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	850.73	461.27	562.99	1,024.26	
W0237	Concrete Curline (reinforced concrete)	m ³	3.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	12.71	1.30	3.02	2.38	14.65	17.03	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	545.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,963.50	10,386.41	1,024.64	7,267.91	6,106.64	13,374.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	35.41	21.24	171.77	107.23	121.19	228.42	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.84	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	39.04	69.19	278.32	195.96	190.80	390.56	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		397.40	1,192.20	2,364.40	1,788.30	2,185.70	3,974.01	18.0%
Total										2,768.50	17,512.48	5,770.75	13,992.01	12,199.81	26,051.83	
Components (%)										10.3%	67.2%	22.2%	53.3%	46.7%	100.0%	
Unit Rate				m						277.85	1,751.25	578.14	1,399.20	1,219.98	2,610.00	

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	5.13	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	204.42	7,397.48	1,327.30	6,164.02	3,772.18	8,926.20	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.65	2.54	1,090.54	584.43	713.31	1,297.74	
W0237	Concrete Curline (reinforced concrete)	m ³	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	16.10	1.64	3.83	3.01	18.57	21.58	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	684.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,461.66	13,021.54	1,264.59	9,111.84	7,655.96	16,787.56	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.89	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	44.44	26.67	218.03	134.61	152.13	286.74	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.82	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	50.02	88.66	356.60	251.06	244.20	496.28	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		300.32	1,500.95	3,001.90	2,251.42	2,751.74	5,003.16	18.0%
Total										3,478.62	22,039.49	7,860.39	17,490.41	15,308.09	32,788.50	
Components (%)										10.3%	67.2%	22.2%	53.3%	46.7%	100.0%	
Unit Rate				m						347.86	2,203.95	786.04	1,749.04	1,530.81	3,280.00	

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

W0309 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1620 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	7.62	2.3%	82.9%	14.9%	57.7%	42.3%	1,740.00	299.18	10,988.08	1,971.54	7,655.69	6,503.11	13,258.80	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,619.55	867.93	1,059.33	1,927.26	
W0237	Concrete Curline (reinforced concrete)	m ³	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	23.92	2.44	5.69	4.47	27.58	32.05	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,699.97	19,519.00	1,926.58	13,658.45	11,476.10	25,134.65	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.88	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	66.29	39.77	321.82	200.77	226.91	427.89	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	1.21	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	73.81	130.82	526.20	370.49	360.35	730.84	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		747.80	2,241.00	4,482.00	3,362.41	4,109.51	7,472.01	18.0%
Total										5,204.31	32,025.49	10,853.39	25,120.20	22,862.95	46,993.19	
Components (%)										10.3%	67.2%	22.2%	53.3%	46.7%	100.0%	
Unit Rate				m						520.43	3,202.55	1,085.34	2,512.02	2,286.29	4,699.00	

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

W0313 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #460 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	0.80	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	31.32	1,356.93	205.35	925.63	666.37	1,592.00	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	0.78	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	31.74	0.39	169.11	90.63	110.61	201.24	
W0237	Concrete Curline (reinforced concrete)	m ³	0.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.60	0.26	0.50	0.47	2.88	3.35	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	122.70	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	441.35	2,334.52	230.30	1,633.58	1,372.67	3,006.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	6.78	4.07	32.89	20.53	23.21	43.74	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.13	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	7.93	14.08	56.53	38.80	36.72	78.52	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		86.65	265.95	531.90	398.93	487.58	856.50	18.0%
Total										610.25	3,974.56	1,225.69	3,109.57	2,701.93	5,811.50	
Components (%)										10.5%	68.4%	21.5%	53.5%	46.5%	100.0%	
Unit Rate				m						610.25	397.35	122.64	310.88	270.12	581.00	

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #810 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.33	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	62.07	2,253.23	341.40	1,538.87	1,107.83	2,648.70	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	1.30	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	52.69	0.66	291.65	151.05	184.35	335.40	
W0237	Concrete Curline (reinforced concrete)	m ³	1.30	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.16	0.42	0.99	0.78	5.69		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	199.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	717.56	3,795.73	374.45	2,658.07	2,231.68	4,887.75	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	11.30	6.78	54.82	34.22	38.68	72.90	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.21	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	12.81	22.70	91.32	64.30	62.54	126.84	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		146.35	436.06	872.12	654.09	799.44	1,453.53	18.0%
Total										995.18	6,519.89	2,016.96	5,099.37	4,129.33	9,529.70	
Components (%)										10.5%	68.4%	21.2%	53.5%	46.5%	100.0%	
Unit Rate				m						99.52	651.99	201.70	510.91	412.93	953.00	

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

W0315 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.93	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	75.66	3,269.72	495.42	2,233.09	1,607.61	3,840.70	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m ³	1.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	76.90	0.96	409.77	218.60	268.02	487.62	
W0237	Concrete Curline (reinforced concrete)	m ³	1.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.05	0.62	1.44	1.13	6.98	8.11	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	272.60	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	980.49	5,188.55	511.66	3,629.29	3,049.41	8,678.70	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.22	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	16.57	9.94	80.40	50.19	56.73	106.92	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.31	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	18.91	33.82	134.81	94.92	92.32	187.24	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		203.57	610.70	1,221.40	916.05	1,119.52	2,036.67	18.0%
Total										1,378.05	9,112.00	2,854.90	7,144.28	6,200.69	13,344.96	
Components (%)										10.3%	68.3%	21.4%	53.5%	46.5%	100.0%	
Unit Rate				m						137.81	908.13	285.49	712.02	619.99	1,334.00	

W0317 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	3.32	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	129.98	5,624.80	852.23	3,841.38	2,765.42	6,605.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	132.23	1.64	704.63	377.61	460.69	838.60	
W0237	Concrete Curbing (reinforced concrete)	m3	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	10.40	1.06	2.48	1.95	11.99	13.94	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	609.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,190.46	11,586.97	1,143.07	8,108.00	6,812.50	14,920.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.38	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	28.63	17.18	138.68	86.70	97.98	184.68	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.53	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	32.33	57.30	230.49	162.28	187.84	320.12	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		411.92	1,235.77	2,471.53	1,853.65	2,265.57	4,119.22	18.0%
Total										2,935.95	18,524.51	5,543.29	14,431.58	12,572.20	27,003.76	
Components (%)										10.9%	58.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										293.59	1,852.45	554.33	1,443.16	1,257.22	2,700.38	

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

W0318 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	4.30	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	168.35	7,284.87	1,103.78	4,975.28	3,581.72	8,557.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.22	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	171.70	2.13	914.93	490.32	598.44	1,088.76	
W0237	Concrete Curbing (reinforced concrete)	m3	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.51	1.38	3.21	2.53	15.57	18.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,836.09	15,002.17	1,479.99	10,497.79	8,820.46	19,318.25	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.50	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	37.67	22.60	182.74	114.07	128.93	243.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.69	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	42.09	74.60	300.07	211.27	205.49	416.76	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		533.55	1,800.68	3,201.32	2,400.99	2,934.55	5,335.54	18.0%
Total										3,802.96	23,988.42	7,186.03	18,892.25	16,285.16	34,877.41	
Components (%)										10.9%	68.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										380.29	2,398.84	718.60	1,889.22	1,628.51	3,487.74	

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

W0319 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1520 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	6.27	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	245.47	10,622.35	1,609.45	7,254.65	5,222.85	12,477.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	6.15	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	260.22	3.11	1,333.37	714.55	872.14	1,868.70	
W0237	Concrete Curbing (reinforced concrete)	m3	6.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	19.69	2.01	4.69	3.68	22.70	28.39	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,185.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	4,268.90	22,870.80	2,226.64	15,793.95	13,270.40	29,064.35	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.72	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	54.24	32.64	263.14	164.27	185.65	349.92	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.00	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	61.00	108.12	434.88	306.19	297.81	604.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		783.98	2,381.87	4,763.73	3,572.80	4,265.76	7,839.55	18.0%
Total										5,691.49	35,720.81	10,835.92	27,810.10	24,238.10	52,048.21	
Components (%)										10.9%	68.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										569.14	3,572.08	1,083.59	2,781.01	2,423.81	5,204.82	

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

W0331 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #480 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	1.03	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	40.33	1,744.98	264.39	1,191.75	857.95	2,049.70	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	41.09	0.51	118.89	117.35	143.23	260.58	
W0237	Concrete Curbing (reinforced concrete)	m3	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.23	0.33	0.77	0.60	3.73	4.33	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	158.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	589.02	3,009.95	296.94	2,106.22	1,769.68	3,878.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	9.04	5.42	43.66	27.38	30.94	58.32	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.16	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	9.76	17.30	69.68	48.93	47.65	96.84	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		114.22	342.66	685.31	513.98	629.20	1,421.16	18.0%
Total										785.66	8,121.15	1,579.92	4,008.27	3,461.98	7,437.65	
Components (%)										10.9%	68.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										78.56	812.11	157.99	400.82	346.19	743.76	

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

W0332 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	1.60	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	62.84	2,710.65	410.71	1,851.27	1,332.73	3,184.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	63.88	0.79	340.39	182.42	222.84	406.06	
W0237	Concrete Curbing (reinforced concrete)	m3	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.03	0.51	1.20	0.94	5.80	6.74	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	228.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	821.51	4,345.59	429.70	3,040.63	2,554.97	5,595.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.19	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	13.66	8.14	65.78	41.07	46.41	87.48	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.25	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	15.76	27.03	108.72	74.55	74.45	151.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		169.74	509.22	1,018.45	783.84	933.68	1,897.41	18.0%
Total										1,151.61	7,601.94	2,370.95	5,936.91	5,170.99	11,127.49	
Components (%)										10.9%	68.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										115.16	760.19	237.09	593.69	517.09	1,112.74	

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

W0333 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	2.30	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	90.05	3,896.56	590.39	2,661.20	1,915.80	4,577.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	91.54	1.14	487.82	261.42	310.08	580.50	
W0237	Concrete Curbing (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.35	8.30	9.65	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	345.10	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,241.26	6,565.95	647.74	4,594.53	3,860.42	8,454.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.6%	9.3%	75.2%	48.9%	53.1%	486.00	19.59	11.75	95.02	59.32	67.04	126.36	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.37	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	22.57	40.60	160.91	113.29	110.19	223.45	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		251.49	754.48	1,509.97	1,131.73	1,383.22	2,514.95	18.0%
Total										1,723.71	11,270.62	3,492.50	8,822.94	7,664.05	16,488.89	
Components (%)										10.9%	68.6%	20.5%	53.4%	46.6%	100.0%	
Unit Rate										172.37	1,127.06	349.25	882.29	766.40	1,648.88	

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

W0334 Precast Reinforced Concrete Pipe (Extra Strength), fabrication #910 (36")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0216	Concrete (for RCPC, 32MPa, max	m3	3.10	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	121.37	5,261.88	795.76	3,586.83	2,582.17	6,16	

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	4.05	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	158.56	6,561.33	1,059.61	4,686.02	3,373.48	8,059.50	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m ³	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	860.73	461.27	652.99	1,024.26	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	967.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,478.12	18,399.35	1,815.03	12,874.27	10,817.23	23,691.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.47	8.5%	3.3%	83.2%	50.5%	49.5%	881.00	35.20	34.37	344.51	209.26	204.61	414.07	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.84	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	39.04	69.19	278.32	195.98	190.60	386.36	
Miscellaneous		LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	4,489.83	27,180.57	1,814.02	3,628.04	2,721.03	3,325.76	6,046.73	18.0%
Total Components (%)									11.3%	68.6%	20.1%	53.4%	46.6%	100.0%		
Unit Rate									448.53	2,715.34	756.19	2,112.90	1,847.10	3,960.00		

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

W0336 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	5.13	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	200.84	8,591.02	1,316.53	5,935.63	4,273.07	10,208.70	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m ³	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.65	2.84	1,090.84	584.43	713.31	1,297.74	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	982.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,833.15	18,689.46	1,843.74	13,077.97	10,988.38	24,056.35	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.59	8.5%	3.3%	83.2%	50.5%	49.5%	881.00	44.18	43.14	432.47	262.69	257.10	519.79	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.82	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	50.02	88.96	358.60	261.08	244.20	495.28	
Miscellaneous		LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	4,489.83	27,180.57	1,814.02	3,628.04	2,721.03	3,325.76	6,046.73	18.0%
Total Components (%)									10.9%	68.3%	20.6%	53.4%	46.6%	100.0%		
Unit Rate									470.80	2,949.40	829.80	2,308.06	2,011.94	4,320.00		

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

W0337 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1520 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	7.82	2.0%	85.1%	12.9%	58.1%	41.9%	1,990.00	298.33	12,909.47	1,958.00	8,816.66	6,347.14	15,163.60	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m ³	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,619.65	867.93	1,059.33	1,927.26	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	1,824.80	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	6,663.47	34,719.05	3,425.09	24,294.70	20,412.90	44,707.60	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.88	7.0%	7.7%	85.3%	51.6%	48.5%	1,070.00	65.91	72.80	803.18	484.48	457.12	941.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	1.21	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	73.81	130.82	526.20	370.19	360.35	730.84	
Miscellaneous		LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	4,489.83	27,180.57	1,814.02	3,628.04	2,721.03	3,325.76	6,046.73	18.0%
Total Components (%)									11.3%	68.4%	20.3%	53.4%	46.6%	100.0%		
Unit Rate									616.86	5,123.42	1,518.72	3,996.45	3,493.55	7,490.00		

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

W0341 Precast Concrete Pipe Laying #480 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	nd	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	330.40	230.40	
L019	Skilled Labor	nd	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00	
L020	Unskilled Labor	nd	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384.00	0.00	0.00	0.00	384.00	384.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.8%	9.3%	75.2%	48.9%	53.1%	488.00	171.75	103.05	833.28	520.18	687.90	1,108.08	
Miscellaneous		LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	4,489.83	6.60	69.42	66.03	89.42	72.83	132.05	7.0%
Total Components (%)									95.7%	102.4%	89.2%	57.0%	1,038.33	2,018.53		
Unit Rate									95.7%	102.4%	89.2%	57.0%	1,038.33	2,018.53		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

W0342 Precast Concrete Pipe Laying #610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	330.40	230.40	
L019	Skilled Labor	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00	
L020	Unskilled Labor	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.86	15.8%	9.3%	75.2%	48.9%	53.1%	488.00	215.44	129.27	1,045.25	652.50	737.46	1,389.96	
Miscellaneous		LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	4,489.83	8.05	72.42	60.46	72.42	88.61	160.93	7.0%
Total Components (%)									112.4%	120.6%	112.5%	72.4%	1,134.97	2,459.89		
Unit Rate									112.4%	120.6%	112.5%	72.4%	1,134.97	2,459.89		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

W0343 Precast Concrete Pipe Laying #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L019	Skilled Labor	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	245.00	0.00	0.00	0.00	245.00	245.00	
L020	Unskilled Labor	nd	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.8%	9.3%	75.2%	48.9%	53.1%	488.00	258.38	165.03	1,253.87	782.55	884.43	1,668.98	
Miscellaneous		LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	4,489.83	9.92	89.29	89.21	89.29	109.13	198.42	7.0%
Total Components (%)									143.5%	244.32	1,352.76	871.84	2,161.16	3,033.00		
Unit Rate									143.5%	244.32	1,352.76	871.84	2,161.16	3,033.00		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

W0344 Precast Concrete Pipe Laying #910 (36")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	nd	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L019	Skilled Labor	nd	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	287.00	0.00	0.00	0.00	287.00	287.00	
L020	Unskilled Labor	nd	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	608.00	0.00	0.00	0.00	608.00	608.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.00	8.5%	3.3%	83.2%	50.5%	49.5%	881.00	299.64	292.49	2,931.97	1,780.97	1,743.03	3,524.00	
Miscellaneous		LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	4,489.83	15.88	151.90	168.78	151.90	185.65	337.52	7.0%
Total Components (%)									164.2%	444.39	3,100.75	1,932.87	3,228.89	5,155.75		
Unit Rate									164.2%	444.39	3,100.75	1,932.87	3,228.89	5,155.75		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

W0345 Precast Concrete Pipe Laying #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L019	Skilled Labor	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	328.00	328.00	
L020	Unskilled Labor	nd	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	736.00	0.00	0.00	0.00	736.00	736.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.87	8.5%	3.3%	83.2%	50.5%	49.5%	881.00	342.22	3					

#0346 Precast Concrete Pipe Laying #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	
L019	Skilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	369.00	0.00	0.00	0.00	369.00	369.00	
L020	Unskilled Labor	md	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	800.00	0.00	0.00	0.00	800.00	800.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.14	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	384.91	375.85	3,767.58	2,289.54	2,230.80	4,528.34	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.76	195.80	217.55	195.80	239.31	435.10	7.0%
	Total								2,094.08	571.65	3,955.13	2,484.34	4,166.50	5,650.84		
	Components (%)								31.5%	8.6%	59.9%	37.4%	62.6%	100.0%		
	Unit Rate								209.38	57.16	398.45	248.40	416.60	665.00		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

#0347 Precast Concrete Pipe Laying #1520 (60")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	470.37	517.41	5,731.82	3,457.40	3,262.20	6,719.60	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		30.67	276.07	306.75	276.07	337.42	613.49	
	Total								2,446.65	793.48	6,028.67	3,733.47	6,644.63	9,377.69		
	Components (%)								27.1%	8.5%	64.4%	39.8%	60.2%	100.0%		
	Unit Rate								254.63	79.37	604.01	373.44	564.56	938.05		

Miscellaneous covers the cost for lever block, concrete cutter, joint mortar, concrete, etc.

#0351 Precast Concrete Pipe Removal #460 (18")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12	
L019	Skilled Labor	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	49.20	0.00	0.00	0.00	49.20	49.20	
L020	Unskilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	115.20	0.00	0.00	0.00	115.20	115.20	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.88	15.5%	9.3%	75.2%	46.9%	53.1%	496.00	51.22	30.73	248.52	155.14	175.34	330.46	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.64	5.64	45.12	25.39	31.02	58.40	10.0%
	Total								290.38	36.37	293.64	180.52	439.88	620.40		
	Components (%)								48.8%	5.9%	47.3%	29.1%	70.9%	100.0%		
	Unit Rate								29.02	3.84	29.35	18.04	43.95	62.50		

Miscellaneous covers the costs for demolition, disposal, etc.

#0352 Precast Concrete Pipe Removal #610 (24")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	86.40	0.00	0.00	0.00	86.40	86.40	
L019	Skilled Labor	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	61.50	0.00	0.00	0.00	61.50	61.50	
L020	Unskilled Labor	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	124.80	0.00	0.00	0.00	124.80	124.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.5%	9.3%	75.2%	46.9%	53.1%	496.00	84.78	38.87	314.31	195.21	221.75	431.53	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.91	5.91	55.25	31.08	37.99	69.07	10.0%
	Total								344.39	45.78	369.56	227.29	532.44	759.73		
	Components (%)								45.3%	6.0%	48.6%	29.9%	70.1%	100.0%		
	Unit Rate								34.45	4.58	36.97	22.74	53.26	76.00		

Miscellaneous covers the costs for demolition, disposal, etc.

#0353 Precast Concrete Pipe Removal #760 (30")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	103.68	0.00	0.00	0.00	103.68	103.68	
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	73.80	0.00	0.00	0.00	73.80	73.80	
L020	Unskilled Labor	md	0.54	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	172.80	0.00	0.00	0.00	172.80	172.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.03	15.5%	9.3%	75.2%	46.9%	53.1%	496.00	77.59	46.55	378.44	234.99	265.59	500.58	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.51	8.51	89.07	39.29	46.80	85.09	10.0%
	Total								435.98	55.00	444.60	273.28	662.66	935.55		
	Components (%)								46.8%	5.9%	44.5%	29.2%	70.8%	100.0%		
	Unit Rate								43.64	5.51	44.45	27.33	66.27	93.50		

Miscellaneous covers the costs for demolition, disposal, etc.

#0354 Precast Concrete Pipe Removal #910 (36")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	120.96	0.00	0.00	0.00	120.96	120.96	
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	86.10	0.00	0.00	0.00	86.10	86.10	
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	182.40	0.00	0.00	0.00	182.40	182.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	89.86	87.75	879.69	534.28	522.91	1,057.20	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.47	14.47	115.73	65.10	79.57	144.67	10.0%
	Total								493.79	102.21	995.32	599.39	991.94	1,591.33		
	Components (%)								31.0%	6.4%	62.6%	37.7%	62.3%	100.0%		
	Unit Rate								49.34	10.21	99.45	59.93	99.11	159.00		

Miscellaneous covers the costs for demolition, disposal, etc.

#0355 Precast Concrete Pipe Removal #1070 (42")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	138.24	0.00	0.00	0.00	138.24	138.24	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	98.40	0.00	0.00	0.00	98.40	98.40	
L020	Unskilled Labor	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	220.80	0.00	0.00	0.00	220.80	220.80	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.37	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	102.59	100.18	1,004.20	609.89	598.99	1,208.97	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		16.64	16.64	133.15	74.90	91.54	166.44	10.0%
	Total								576.68	116.82	1,137.35	684.88	1,145.97	1,830.85		
	Components (%)								31.5%	6.4%	62.6%	37.4%	62.6%	100.0%		
	Unit Rate								57.64	11.68	113.68	68.46	114.54	183.00		

Miscellaneous covers the costs for demolition, disposal, etc.

#0356 Precast Concrete Pipe Removal #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	165.62	0.00	0.00	0.00	165.62	165.62	
L019	Skilled Labor	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	110.70	0.00	0.00	0.00	110.70	110.70	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.84	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	115.32	112.61	1,128.81	685.87	671.07	1,356.74	

#W0401 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	408.96	0.00	0.00	0.00	408.96	408.96	
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	582.20	0.00	0.00	0.00	582.20	582.20	
L020	Unskilled Labor	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	227.20	0.00	0.00	0.00	227.20	227.20	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	4.65	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	303.77	337.90	2,771.44	1,873.31	1,739.79	3,410.70	
R0401-040	Crawler Crane, 36-40t	hr	4.65	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	344.87	761.67	7,961.27	4,820.60	4,246.84	9,067.50	
R1001-150	Generator 101-150 kW	day	0.71	0.0%	62.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,337.94	1,225.16	1,836.66	1,026.54	2,563.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.79	5.6%	6.8%	87.8%	52.0%	48.0%	1,330.00	207.80	252.33	3,260.57	1,928.14	1,782.58	3,710.70	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total									2,074.49	2,689.83	15,209.44	9,958.66	10,014.10	19,972.76		
Components (%)									10.4%	13.6%	76.1%	49.9%	50.1%	100.0%		
Unit Rate			m ²						20.77	26.94	152.29	99.72	100.28	200.00		

Tc = [(0.75 + γ·Nmax)·L + α]·K/F = 11.2 min/pile Nmax: Maximum N-value = 10.00 T: Operation hour per day = 6.55 hr/day
 α: Coefficient = 3.75 K: Coefficient = 1.00 Sheet Pile width = 0.400 m
 γ: Coefficient = 0.02 F: Work factor = 1.00 Sheet Pile length = 10.000 m
 L: Pile driving length = 7.80 m

#W0402 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	524.18	0.00	0.00	0.00	524.18	524.18	
L019	Skilled Labor	md	1.82	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	746.20	0.00	0.00	0.00	746.20	746.20	
L020	Unskilled Labor	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	291.20	0.00	0.00	0.00	291.20	291.20	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	5.95	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	388.69	432.36	3,546.25	2,141.11	2,228.19	4,367.30	
R0401-040	Crawler Crane, 36-40t	hr	5.95	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	440.90	974.61	10,187.00	6,188.37	5,434.13	11,622.50	
R1001-150	Generator 101-150 kW	day	0.91	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,714.82	1,799.28	1,969.40	1,315.70	3,285.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.57	5.6%	6.8%	87.8%	52.0%	48.0%	1,330.00	265.89	322.87	4,159.34	2,487.19	2,280.91	4,768.10	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total									2,657.04	3,444.67	19,462.66	12,745.06	12,818.50	25,561.56		
Components (%)									10.4%	13.3%	76.1%	49.9%	50.1%	100.0%		
Unit Rate			m ²						26.61	34.49	191.90	127.64	128.36	256.00		

Tc = [(0.75 + γ·Nmax)·L + α]·K/F = 14.3 min/pile Nmax: Maximum N-value = 30.00 T: Operation hour per day = 6.55 hr/day
 α: Coefficient = 3.75 K: Coefficient = 1.00 Sheet Pile width = 0.400 m
 γ: Coefficient = 0.02 F: Work factor = 1.00 Sheet Pile length = 10.000 m
 L: Pile driving length = 7.80 m

#W0403 Temporary Sheet Pile Removal for excavation, (Vibro Hammer)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	348.60	0.00	0.00	0.00	348.60	348.60	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.94	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	257.39	266.30	2,348.27	1,417.91	1,474.15	2,891.96	
R0401-040	Crawler Crane, 36-40t	hr	3.94	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	291.95	645.37	5,745.67	4,084.60	3,598.40	7,693.00	
R1001-150	Generator 101-150 kW	day	0.60	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,130.65	1,035.35	1,298.50	867.80	2,168.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.36	5.6%	6.8%	87.8%	52.0%	48.0%	1,330.00	175.77	213.44	2,749.59	1,630.97	1,607.83	3,138.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total									1,754.71	2,275.77	12,879.66	8,431.89	8,477.47	16,909.36		
Components (%)									10.4%	13.5%	76.2%	49.9%	50.1%	100.0%		
Unit Rate			m ²						17.54	22.75	128.72	84.27	84.73	169.00		

Tc = [(0.75 + γ·Nmax)·L + α]·K/F = 9.5 min/pile Nmax: Maximum N-value = 30.00 T: Operation hour per day = 6.55 hr/day
 α: Coefficient = 3.60 K: Coefficient = 1.00 Sheet Pile width = 0.400 m
 γ: Coefficient = 0.03 F: Work factor = 1.00 Sheet Pile length = 10.000 m
 L: Pile pullout length = 7.80 m

#W0405 H-Pile Driving for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	241.92	0.00	0.00	0.00	241.92	241.92	
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	344.40	0.00	0.00	0.00	344.40	344.40	
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	134.40	0.00	0.00	0.00	134.40	134.40	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.73	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	178.34	198.38	1,627.10	992.39	1,021.43	2,003.82	
R0401-040	Crawler Crane, 36-40t	hr	2.73	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	202.29	447.17	4,074.90	2,930.19	2,493.31	5,323.50	
R1001-150	Generator 101-150 kW	day	0.42	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	791.46	724.74	908.95	607.25	1,616.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.64	5.6%	6.8%	87.8%	52.0%	48.0%	1,330.00	122.15	148.32	1,910.73	1,133.39	1,047.81	2,181.20	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total									1,223.60	1,685.33	8,935.61	5,854.92	5,890.52	11,745.41		
Components (%)									10.4%	13.5%	76.1%	49.9%	50.2%	100.0%		
Unit Rate			m						12.19	16.79	89.02	58.32	58.68	117.00		

Tc = (Ts + Td)/F = 19.6 min/pile L: Pile Driving length = 6.00 m
 Ts: Preparation time per pile = 10.00 min/pile K: Coefficient = 1.00
 Td: Driving time per pile = γ·L·K = 5.70 min/pile Nmax: Maximum N-value = 30.00
 γ: Driving time per unit meter = 0.01·Nmax + 0.65 = 0.95 min/m F: Work factor = 0.80
 T: Operation hour per day = 6.55 hr/day
 Pile Length = 12.00 m

#W0407 H-Pile Removal for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	207.36	0.00	0.00	0.00	207.36	207.36	
L019	Skilled Labor	md	0.72	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	295.20	0.00	0.00	0.00	295.20	295.20	
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	115.20	0.00	0.00	0.00	115.20	115.20	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.38	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	155.48	172.95	1,418.80	858.45	890.47	1,748.92	
R0401-040	Crawler Crane, 36-40t	hr	2.38	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	178.39	389.84	4,074.90	2,467.35	2,173.65	4,641.00	
R1001-150	Generator 101-150 kW	day	0.36	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	678.39	621.21	779.10	520.50	1,299.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.8%	52.0%	48.0%	1,330.00	106.51	128.33	1,868.06	988.28	913.64	1,901.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total									1,056.10	1,370.51	7,760.67	5,091.15	5,118.09	10,207.19		
Components (%)									10.3%	13.4%	76.2%	49.9%	50.1%	100.0%		
Unit Rate			m						10.55	13.70	77.75	50.88	51.12	102.00		

Tc = (Ts + Td)/F = 14.3 min/pile L: Pile length = 10.00 m
 Ts: Preparation time per pile = 6.00 min/pile K: Coefficient = 1.00
 Td: Driving time per pile = γ·L·K = 8.33 min/pile Nmax: Maximum N-value = 30.00
 γ: Driving time per unit meter = 0.65 min/m F: Work factor = 0.90
 T: Operation hour per day = 6.55 hr/day
 Pile Length = 10.00 m

#W0411 Temporary Scaffolds & Supports Installation

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60	
L019	Skilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.								

W0412 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	nd	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	820.00	0.00	0.00	0.00	820.00	820.00	
L009	Welder	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L020	Unskilled Labor	nd	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	0.00	640.00	640.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.71	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	427.69	417.33	4,185.38	2,542.33	2,498.18	5,030.51	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	45.0%	45.0%	588.00	0.00	340.90	418.65	418.65	340.90	757.55	10.0%
	Total									2,972.59	758.43	4,602.04	2,958.98	5,374.08	6,333.06	
	Components (%)									35.7%	9.1%	55.2%	35.5%	64.5%	100.0%	
	Unit Rate									297.16	75.82	460.20	295.79	537.21	833.00	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0413 Temporary Struts & Tie Rod Installation

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	2,880.00	0.00	0.00	0.00	2,880.00	2,880.00	
L019	Skilled Labor	nd	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,100.00	0.00	0.00	0.00	4,100.00	4,100.00	
L009	Welder	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	2,545.00	0.00	0.00	0.00	2,545.00	2,545.00	
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	26.55	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	2,137.37	2,087.65	20,925.92	12,711.65	12,440.80	25,152.55	
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	1,769.68	1,722.42	1,217.58	2,940.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	45.0%	45.0%	588.00	0.00	1,411.83	1,725.67	1,725.67	1,411.83	3,137.40	8.0%
	Total									13,262.97	4,659.61	24,422.37	10,159.64	26,195.31	42,354.96	
	Components (%)									31.3%	1.0%	57.7%	38.2%	61.8%	100.0%	
	Unit Rate									1,327.71	467.48	2,444.83	1,017.68	2,622.32	4,240.00	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0414 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,670.40	0.00	0.00	0.00	1,670.40	1,670.40	
L019	Skilled Labor	nd	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,378.00	0.00	0.00	0.00	2,378.00	2,378.00	
L009	Welder	nd	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	928.00	0.00	0.00	0.00	928.00	928.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	1,240.10	1,210.92	12,138.35	7,374.20	7,216.18	14,589.38	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	792.41	968.51	968.51	792.41	1,750.92	8.0%
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	45.0%	45.0%	588.00	0.00	2,003.33	13,108.25	8,341.71	12,964.97	21,326.68	
	Total									5,216.50	2,003.33	13,108.25	8,341.71	12,964.97	21,326.68	
	Components (%)									29.1%	9.4%	61.5%	39.1%	60.9%	100.0%	
	Unit Rate									620.87	200.08	1,309.05	833.13	1,296.87	2,130.00	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0415 Temporary Deck Plate Installation

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L019	Skilled Labor	nd	3.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,353.00	0.00	0.00	0.00	1,353.00	1,353.00	
L009	Welder	nd	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00	352.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	6.28	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	470.28	459.21	4,603.19	2,798.12	2,736.65	5,632.68	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	45.0%	45.0%	588.00	0.00	459.21	1,603.19	2,798.12	5,076.16	7,871.28	
	Total									2,609.88	459.21	1,603.19	2,798.12	5,076.16	7,871.28	
	Components (%)									35.7%	3.8%	58.5%	35.5%	64.5%	100.0%	
	Unit Rate									28.08	4.59	46.02	27.96	50.74	78.70	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0416 Temporary Deck Plate Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L019	Skilled Labor	nd	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	738.00	0.00	0.00	0.00	738.00	738.00	
L009	Welder	nd	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	182.00	0.00	0.00	0.00	182.00	182.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.43	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	266.86	250.81	2,514.16	1,527.18	1,494.65	3,021.83	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	45.0%	45.0%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									1,532.46	250.81	2,514.16	1,527.18	2,770.25	4,297.43	
	Components (%)									35.7%	9.2%	58.5%	35.5%	64.5%	100.0%	
	Unit Rate									15.30	2.51	25.16	15.28	27.72	43.00	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0417 Temporary Deck Plate Support Beam Installation

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	748.80	0.00	0.00	0.00	748.80	748.80	
L019	Skilled Labor	nd	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,599.00	0.00	0.00	0.00	1,599.00	1,599.00	
L009	Welder	nd	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,322.40	0.00	0.00	0.00	1,322.40	1,322.40	
L020	Unskilled Labor	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	7.42	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	565.65	542.67	5,439.80	3,303.69	3,233.33	6,637.02	
R0901-025	Welding Machine 250A	day	1.30	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	304.23	460.17	447.83	316.57	764.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	588.00	0.00	341.86	797.20	629.37	512.49	1,138.86	10.0%
	Total									4,642.85	1,188.46	6,696.17	4,377.90	6,149.59	12,627.48	
	Components (%)									37.1%	9.5%	53.6%	34.9%	65.1%	100.0%	
	Unit Rate									463.27	118.59	669.16	436.82	615.17	1,259.00	

Miscellaneous covers the cost for welding rods, acetylene and oxygen gas, and minor tools, etc.

W0418 Temporary Deck Plate Support Beam Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.										

W0422 Temporary Access Bridge Superstructure Removal

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	779.00	0.00	0.00	0.00	779.00	779.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	254.50	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	480.00	0.00	0.00	0.00	480.00	480.00	
R0401-025	Crawler Crane, 21-25t	hr	4.66	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	341.67	581.57	6,346.36	3,833.41	3,436.19	7,269.60	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	251.14	585.99	460.42	376.71	837.14	837.14	0.0%
Total										2,373.57	832.71	6,932.35	4,293.83	5,814.60	10,138.64	
Components (%)										23.4%	8.2%	69.4%	42.4%	57.6%	100.0%	
Unit Rate										236.45	82.95	690.59	427.75	582.25	1,010.00	

Miscellaneous covers the cost for air compressor, generator, electric drill, steel cutter, bolts, etc.

W0423 Temporary Access Bridge Relling Installation

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	902.00	
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,476.10	0.00	0.00	0.00	1,476.10	1,476.10	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
R0401-025	Crawler Crane, 21-25t	hr	4.07	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	298.41	507.94	5,842.85	3,348.06	3,001.14	6,349.20	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	208.87	485.91	382.67	315.01	895.58	895.58	7.0%
Total										3,885.11	716.61	6,029.76	3,730.63	6,901.85	10,632.45	
Components (%)										36.5%	6.7%	58.7%	35.1%	64.9%	100.0%	
Unit Rate										38.74	7.14	60.11	37.19	68.81	106.00	

Miscellaneous covers the cost for welding machine, generator, steel cutter, etc.

W0424 Temporary Access Bridge Relling Removal

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00	
L009	Welder	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,018.00	0.00	0.00	0.00	1,018.00	1,018.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00	
R0401-025	Crawler Crane, 21-25t	hr	2.33	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	170.84	290.78	3,173.18	1,916.70	1,718.10	3,634.89	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	17.91	39.70	31.19	25.82	56.71	56.71	1.0%
Total										2,206.84	307.80	3,212.85	1,942.69	3,739.61	5,727.21	
Components (%)										38.8%	5.4%	58.1%	34.0%	68.0%	100.0%	
Unit Rate										22.08	3.08	32.14	19.49	37.81	57.30	

Miscellaneous covers the cost for welding machine, generator, steel cutter, etc.

W0431 Temporary Drain Pump Installation & Removal

Unit: 1.00 set

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L020	Unskilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	896.00	0.00	0.00	0.00	896.00	896.00	
R0402-005	Truck Crane, Hydraulic 5-5t	hr	4.87	18.2%	10.9%	70.9%	45.6%	54.4%	413.00	343.51	205.73	1,338.17	860.85	1,026.56	1,887.41	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										1,354.71	205.73	1,338.17	860.85	2,037.76	2,898.61	
Components (%)										46.7%	7.1%	46.2%	29.7%	70.3%	100.0%	
Unit Rate										1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00	

Miscellaneous covers the cost for depreciation of pipes and fittings, etc.

W0432 Temporary Drain Pump Operation

Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	98.40	0.00	0.00	0.00	98.40	98.40	
R1004-102	Electric Water Pump 3 1/2 - 4 (88.9-101.6mm)	day	1.00	0.0%	27.7%	72.3%	53.1%	46.9%	195.00	0.00	54.02	140.99	103.82	91.36	195.00	
R1001-016	Generator 11-15 kW	day	1.00	0.0%	21.1%	78.9%	56.6%	43.4%	883.00	0.00	186.31	696.69	499.66	383.34	883.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	88.40	246.91	843.55	609.16	579.90	1,185.16	1.0%
Total										98.55	246.69	844.85	610.10	579.90	1,190.00	
Components (%)										8.3%	20.7%	71.0%	51.3%	48.7%	100.0%	
Unit Rate										98.55	246.69	844.85	610.10	579.90	1,190.00	

Miscellaneous covers the costs for depreciation of pipes and fittings, etc.

W0441 Temporary Frame Support Installation & Removal

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	541.44	0.00	0.00	0.00	541.44	541.44	
L019	Skilled Labor	md	3.74	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,533.40	0.00	0.00	0.00	1,533.40	1,533.40	
L022	Unskilled Labor	md	2.97	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	950.40	0.00	0.00	0.00	950.40	950.40	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.60	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	119.17	144.70	1,864.13	1,108.74	1,022.26	2,128.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	7.73	61.84	85.03	77.30	77.30	154.60	3.0%
Total										3,152.14	208.54	1,949.16	1,183.04	4,124.80	5,307.84	
Components (%)										59.4%	3.9%	22.3%	22.3%	77.7%	100.0%	
Unit Rate										31.53	2.07	19.80	11.81	41.25	53.10	

Miscellaneous covers the cost for preparation of foundation, maintenance, minor tools, etc.

W0442 Temporary Frame Support Depreciation

Unit: 100.00 m3-d

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
M05082	Temporary Frame Support (Portal 1219x1700)	day	17.58	0.0%	100.0%	0.0%	50.0%	50.0%	1.85	0.00	29.01	0.00	14.51	14.51	29.01	
M05086	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.69	0.00	41.50	0.00	20.75	20.75	41.50	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	2.82	2.82	2.82	2.82	5.64	8.0%
Total										0.00	73.33	2.82	38.08	38.08	75.15	
Components (%)										0.0%	96.3%	3.7%	50.0%	50.0%	100.0%	
Unit Rate										0.00	0.73	0.03	0.38	0.38	0.76	

Miscellaneous covers the cost for irregular and special supports, allowance for scaffolding, etc.

W0451 Temporary Sheet Pile Driving for Cofferdam, (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	241.92	0.00	0.00	0.00	241.92	241.92	
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	344.40	0.00	0.00	0.00	344.40	344.40	

#0452 Temporary Sheet Pile Removal for cofferdam. (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	149.76	0.00	0.00	0.00	149.76	149.76
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	213.20	0.00	0.00	0.00	213.20	213.20
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	83.20	0.00	0.00	0.00	83.20	83.20
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.71	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	111.71	124.26	1,016.17	615.35	639.79	1,255.14
R0401-040	Crawler Crane, 36-40t	hr	1.71	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	128.71	280.10	2,927.69	1,772.76	1,661.74	3,334.50
R1001-200	Generator 151-200 kW	day	0.26	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	653.45	1,719.35	815.73	557.07	1,372.80
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	76.71	93.15	1,200.03	711.82	658.08	1,369.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								761.29	1,150.96	5,806.24	3,915.65	3,882.85	7,778.50	
	Components (%)								9.8%	14.8%	76.4%	50.3%	49.7%	100.0%	
	Unit Rate	m							7.61	11.51	58.67	39.16	38.84	77.80	

Tc = [(0.75 + y * Nmax) * L + a] * K / F
 Tc : Construction time per pile = 15.4 min/pile
 a : Coefficient = 3.43
 y : Coefficient = 0.00
 L : Pile pullout length = 15.00 m
 Nmax : Maximum N-value = 30.00
 K : Coefficient = 1.05
 F : Work factor = 1.00
 T : Operation hour per day = 6.66 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 15.000 m

#0455 H-Pile Driving for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.27	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	213.62	237.62	1,948.95	1,176.71	1,223.47	2,400.18
R0401-040	Crawler Crane, 36-40t	hr	3.27	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	242.31	535.63	5,598.57	3,390.01	2,968.49	6,375.50
R1001-200	Generator 151-200 kW	day	0.50	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,255.84	1,393.36	1,688.71	1,071.28	2,640.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.96	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	109.98	177.25	1,293.55	1,354.53	1,252.27	2,606.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,659.90	2,207.16	11,214.43	7,489.97	7,391.51	14,851.48	
	Components (%)								9.8%	14.8%	76.4%	50.3%	49.7%	100.0%	
	Unit Rate	m							14.62	22.10	112.25	74.99	74.91	149.90	

Tc = (Ts + Tb) / F
 Tc : Construction time per pile = 29.4 min/pile
 Ts : Preparation time per pile = 10.00 min/pile
 Tb : Driving time per pile = y * L * K = 13.54 min/pile
 y : Driving time per unit meter = 0.01 * Nmax + 0.65 = 0.95 min/m
 L : Pile Driving length = 15.00 m
 K : Coefficient = 0.95
 Nmax : Maximum N-value = 30.00
 F : Work factor = 0.80
 T : Operation hour per day = 6.66 hr/day
 Pile Length = 15.00 m

#0456 H-Pile Removal for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	167.04	0.00	0.00	0.00	167.04	167.04
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	237.80	0.00	0.00	0.00	237.80	237.80
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	92.80	0.00	0.00	0.00	92.80	92.80
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.88	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	122.61	138.61	1,120.50	678.52	703.40	1,379.92
R0401-040	Crawler Crane, 36-40t	hr	1.88	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	139.31	307.94	3,218.75	1,948.00	1,717.00	3,666.00
R1001-200	Generator 151-200 kW	day	0.29	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	728.85	802.35	909.85	621.25	1,531.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.13	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	84.10	102.20	1,316.54	780.93	721.97	1,502.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								833.92	1,275.59	6,458.33	4,315.30	4,261.36	8,577.56	
	Components (%)								9.8%	14.8%	76.4%	50.3%	49.7%	100.0%	
	Unit Rate	m							8.44	12.76	64.60	43.17	42.63	85.80	

Tc = (Ts + Tb) / F
 Tc : Construction time per pile = 17.0 min/pile
 Ts : Preparation time per pile = 6.00 min/pile
 Tb : Pull out time per pile = y * L * K = 9.26 min/pile
 y : Pull out time per unit meter = 0.65 min/m
 L : Pile pull out length = 15.00 m
 K : Coefficient = 0.95
 Nmax : Maximum N-value = 30.00
 F : Work factor = 0.80
 T : Operation hour per day = 6.66 hr/day
 Pile Length = 15.00 m

#0501 Ground Assembly of Structural Steel Bridge Members

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	23.04	0.00	0.00	0.00	23.04	23.04
L019	Skilled Labor	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	94.30	0.00	0.00	0.00	94.30	94.30
L020	Unskilled Labor	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	12.80	0.00	0.00	0.00	12.80	12.80
R0402-100	Truck Crane, Hydraulic 91-100t	hr	0.22	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	16.87	26.89	1,065.45	597.26	613.74	1,111.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	9.93	14.85	12.41	12.41	24.82
	Total								146.81	38.82	1,080.34	609.68	656.20	1,265.96	
	Components (%)								11.6%	3.1%	85.3%	48.2%	51.8%	100.0%	
	Unit Rate	t							147.27	38.94	1,083.79	611.62	659.08	1,270.00	

Miscellaneous covers the cost for generator, fuel, etc.
 y = G / (0.038 * G + 23) = 26.82 t/day
 G : Assembled weight = 1195.0 t
 a : coefficient = 1.00

#0502 Erection of Structural Steel Bridge Members

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	213.12	0.00	0.00	0.00	213.12	213.12
L019	Skilled Labor	md	2.26	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	922.60	0.00	0.00	0.00	922.60	922.60
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	118.40	0.00	0.00	0.00	118.40	118.40
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	102.11	280.98	10,363.91	5,808.76	4,997.24	10,807.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	337.71	506.56	422.14	422.14	844.27
	Total								1,416.13	618.63	10,870.48	6,331.89	6,873.40	12,905.20	
	Components (%)								11.0%	4.8%	84.2%	46.3%	51.7%	100.0%	
	Unit Rate	t							141.55	61.84	1,086.60	632.93	687.07	1,290.00	

Miscellaneous covers the cost for generator, fuel, etc.
 y = W / (0.47 * a) * (n+4) ≥ 9.0t/day
 y : Work capacity = 26.7 t/day
 a : Coefficient = 0.4 * √(0.75 * W/n) = 1.6
 W : Total weight of steel members = 1708 t
 n : number of members to be erected = 81

#0503 Bolting of Structural Steel Bridge Members

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56
L019	Skilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	143.60	0.00	0.00	0.00	143.60	143.60
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	19.20	0.00	0.00	0.00	19.20	19.20
N02071	High Tension Bolt M16	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	185.00	0.00	129.50	55.50	185.00
N02072	High Tension Bolt M20	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	29.20	0.00	876.00	0.00	613.20	262.80	876.00
N02073	High Tension Bolt M22	each	40.00	0.0%	100.0%	0.0%	70.0%	30.0%	42.20	0.00	1,688.00	0.00	1,181.60	506.40	1,688.00
N02074	High Tension Bolt M24	each	20.00	0.0%	100.0%	0.0%	70.0%	30.0%	62.70	0.00	1,254.00	0.00	877.80	376.20	1,254.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	87.20	100.81	84.01	84.01	168.01
	Total								197.26	4,070.20	10,811.11	2,886.11			

W0504 Finish Painting of Structural Steel Bridge Members

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	
L010	Painter	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	4,300.80	0.00	0.00	0.00	0.00	4,300.80	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	779.00	0.00	0.00	0.00	0.00	779.00	
M06020	Silicon Alkyl Resin Paint for Steel	kg	12.36	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	3,090.00	0.00	2,008.50	1,081.50	3,090.00	Loss 3.0%
M06020	Silicon Alkyl Resin Paint for Steel	kg	11.33	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	2,832.80	0.00	1,841.13	991.38	2,832.80	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	0.00	521.02	1,215.72	955.21	781.54	1,736.75	15.0%
Total										6,555.80	6,443.52	1,215.72	4,804.83	8,510.21	15,315.05	
Components (%)										42.8%	48.4%	9.1%	36.1%	83.9%	100.0%	
Unit Rate										65.49	64.36	12.14	47.99	85.91	133.00	

Miscellaneous covers the cost for falseworks, thinner, spray guns, brushes and other minor materials and tools.
 Paint volume (middle coat) = 0.120 kg/m²
 Paint volume (finish coat) = 0.110 kg/m²

W0505 Temporary Bent for Steel Bridge Erection

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00	
M05041	Temporary Steel Shaper Depreciation	t-d	444.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R042-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	9.68	11.76	151.46	89.84	83.06	172.80	
W0202	Concrete (Class B, 17MPa, max. ass. 60mm)	m3	0.53	3.0%	76.9%	20.1%	55.2%	43.8%	1,370.00	21.60	558.27	146.23	407.78	318.32	726.10	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.52	19.1%	0.2%	60.7%	43.3%	56.7%	214.00	21.22	0.22	89.84	48.15	83.13	111.28	
W0236	Concrete Curing (plain concrete)	m3	0.52	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.33	0.41	0.65	0.75	3.94	4.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	0.00	46.83	139.88	219.74	233.14	233.14	466.27	3.0%
Total										732.60	14,607.74	669.25	7,728.26	8,280.38	16,006.61	
Components (%)										4.6%	91.2%	4.2%	48.3%	61.7%	100.0%	
Unit Rate										732.28	14,599.85	667.89	7,724.09	8,276.91	16,000.00	

Miscellaneous covers the cost for preparation of foundation bed, maintenance, etc.
 D = 0.22 * T + 1.4 Depreciation period = 444 days
 D: Required days = 123.87 days Base Concrete = 288.00 m³
 T: Total weight of bent = 556.70 t

W0506 Site Welding for Steel Bridge

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,527.00	0.00	0.00	0.00	1,527.00	1,527.00	
L019	Skilled Labor	md	11.98	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,911.80	0.00	0.00	0.00	4,911.80	4,911.80	
R0901-050	Welding Machine 500A	day	2.10	0.0%	80.4%	39.5%	60.8%	39.4%	1,470.00	0.00	1,864.55	1,222.45	1,871.85	1,215.18	3,087.00	
R1001-150	Generator 101-150 HP	day	3.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	5,653.26	5,176.74	5,492.62	4,337.46	10,830.00	
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m ³ /min)	day	3.00	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,743.06	4,526.94	3,688.45	2,681.55	6,270.00	
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	50.0%	50.0%	0.00	115.46	1,539.43	2,193.89	1,924.29	1,924.29	3,848.57	14.0%
Total										7,418.26	10,800.30	13,119.82	13,877.11	17,461.26	31,338.37	
Components (%)										23.7%	34.5%	41.9%	44.3%	55.7%	100.0%	
Unit Rate										740.92	1,078.71	1,310.38	1,386.01	1,743.99	3,130.00	

Miscellaneous covers the cost for welding rods, acetylene gas, falseworks, testing, etc.
 G = W * c / (0.10 * H + 12.2)
 G: Daily productivity = 6.68 m/day
 H: Total length of welding = 446.5 m
 c: Coefficient due to average thickness = 0.85

W0521 Precast PC Girder Fabrication Base Construction & Removal

Unit: 30.00 girder

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	3.28	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,889.28	0.00	0.00	0.00	1,889.28	1,889.28	
L019	Skilled Labor	md	8.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,034.40	0.00	0.00	0.00	4,034.40	4,034.40	
L019	Skilled Labor	md	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,724.00	0.00	0.00	0.00	6,724.00	6,724.00	
L020	Unskilled Labor	md	41.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	13,120.00	0.00	0.00	0.00	13,120.00	13,120.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	3,993.99	3,993.99	4,393.39	3,993.99	7,987.98	31.0%
Total										25,767.68	3,993.99	3,993.99	4,393.39	29,368.27	33,755.66	
Components (%)										76.3%	11.8%	11.8%	13.0%	87.0%	100.0%	
Unit Rate										852.60	132.70	133.70	147.07	982.93	1,130.00	

Miscellaneous covers the cost for lumber, plywood, nail, etc.
 Total number of girders = 30 Maximum Girder Length = 40.000 m Number of bases = 4

W0522 Precast PC Girder Fabrication Base Maintenance

Unit: 1.00 girder

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks	
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L005	Carpenter	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	369.82	0.00	0.00	0.00	369.82	369.82		
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	131.20	0.00	0.00	0.00	131.20	131.20		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total										501.02	501.02	0.00	0.00	0.00	501.02	501.02	
Components (%)										100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
Unit Rate										501.00	501.00	0.00	0.00	0.00	501.00	501.00	

Base Length = 41.000 m

W0535 PC Strand (9-T12.7, 150t) Installation for Precast PC Girder

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60	
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,829.00	0.00	0.00	0.00	2,829.00	2,829.00	
L020	Unskilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,856.00	0.00	0.00	0.00	1,856.00	1,856.00	
M09306	PC Strand, T12.7	kg	658.35	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	74,187.65	0.00	51,917.29	22,250.27	74,187.65	Loss 6.0%
M09331	PC Sheath, #60	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	115.00	0.00	12,078.00	0.00	7,848.75	4,229.25	12,078.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.23	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	6.84	678.39	18.20	429.73	271.77	701.50	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	740.41	165.10	629.03	415.48	925.51	1.0%
Total										5,613.44	87,559.34	203.38	60,704.70	32,771.37	93,476.16	
Components (%)										6.9%	93.5%	0.2%	64.9%	35.1%	100.0%	
Unit Rate										56.15	876.82	2.03	607.20	321.80	935.00	

Miscellaneous covers the cost for tapes, binding wires, minor tools, etc.

W0536 PC Strand (10-T12.7, 180t) Installation for Precast PC Girder

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	979.20	0.00	0.00	0.00	979.20	979.20	
L019	Skilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,075.00	0.00	0.00	0.00	3,075.00	3,075.00	
L020	Unskilled Labor	md	6.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,016.00	0.00	0.00	0.00	2,016.00	2,016.00	

W0538 PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab													Unit: 100.00 m		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	861.00	0.00	0.00	0.00	861.00	861.00
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00
N09307	PC Strand, T15.2	kg	116.71	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	13,858.49	0.00	9,721.94	4,136.55	13,858.49
N09322	PC Sheath, 428	m	106.00	0.0%	100.0%	0.0%	85.0%	35.0%	82.20	0.00	6,533.20	0.00	3,696.59	1,936.62	5,533.20
W0225	Grout (non-shrink)	m3	0.05	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	1.49	147.04	3.97	93.42	89.08	152.50
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	170.96	42.74	117.53	96.16	213.70	1.0%
Total									1,796.89	19,739.69	46.71	13,529.47	8,053.91	21,583.29	
Components (%)									8.3%	91.5%	0.2%	62.7%	37.3%	100.0%	
Unit Rate									7.98	197.55	0.47	135.40	80.50	216.00	

Miscellaneous covers the cost for tapes, binding wires, minor tools, etc.

W0545 PC Strand (8-T12.7, 180t) Tensioning for Precast PC Girder													Unit: 10.00 cable		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00
L019	Skilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,132.00	0.00	0.00	0.00	2,132.00	2,132.00
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,408.00	0.00	0.00	0.00	1,408.00	1,408.00
N09348	PC Anchorage 130, 150t, 8T13H (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00	0.00	37,900.00	0.00	43,428.00	14,475.00	57,900.00
N09365	PC Anchorage 130, 150t, 8T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	7,950.00	0.00	79,500.00	0.00	59,625.00	19,875.00	79,500.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	984.00	534.15	449.85	984.00
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	2,284.81	671.15	1,570.67	1,285.09	2,855.76	2.0%
Total									4,404.00	139,664.61	1,555.15	105,154.62	40,489.94	145,843.79	
Components (%)									3.0%	95.9%	1.1%	72.2%	27.8%	100.0%	
Unit Rate									441.48	14,002.63	155.90	10,541.20	4,038.90	14,600.00	

Miscellaneous covers the cost for end reinforcement, formwork, fittings, binding wire, etc.

W0546 PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder													Unit: 10.00 cable		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,296.00	0.00	0.00	0.00	2,296.00	2,296.00
L020	Unskilled Labor	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,536.00	0.00	0.00	0.00	1,536.00	1,536.00
N09348	PC Anchorage 195, 225t, 12T13H (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00
N09368	PC Anchorage 195, 225t, 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,620.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.60	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,049.60	569.77	479.83	1,049.60
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	3,075.25	768.81	2,144.24	1,729.83	3,844.06	2.0%
Total									4,753.60	159,475.25	1,818.41	142,484.00	53,663.28	195,047.26	
Components (%)									2.4%	96.6%	0.9%	72.7%	27.3%	100.0%	
Unit Rate									475.36	15,947.52	181.84	14,248.40	5,365.04	19,600.00	

Miscellaneous covers the cost for end reinforcement, formwork, fittings, binding wire, etc.

W0547 PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder													Unit: 10.00 cable		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	979.20	0.00	0.00	0.00	979.20	979.20
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,296.00	0.00	0.00	0.00	2,296.00	2,296.00
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00
N09348	PC Anchorage 195, 225t, 12T13H (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00
N09368	PC Anchorage 195, 225t, 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,620.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.70	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,115.20	605.38	509.62	1,115.20
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	3,079.27	769.82	2,117.00	1,735.09	3,849.09	2.0%
Total									4,939.20	159,475.25	1,885.02	142,522.37	53,781.11	196,303.49	
Components (%)									2.5%	96.6%	0.9%	72.6%	27.4%	100.0%	
Unit Rate									493.16	15,918.53	188.21	14,252.24	5,369.80	19,600.00	

Miscellaneous covers the cost for end reinforcement, formwork, fittings, binding wire, etc.

W0548 PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab													Unit: 10.00 cable		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	533.00	0.00	0.00	0.00	533.00	533.00
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	256.00	256.00
N09348	PC Anchorage 30t, 1T15.2 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	8,250.00	0.00	6,219.00	2,031.00	8,250.00
N09368	PC Anchorage 30t, 1T15.2 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,070.00	0.00	10,700.00	0.00	8,025.00	2,675.00	10,700.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.40	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	262.40	142.44	119.96	262.40
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	324.19	81.05	222.88	182.36	405.24	2.0%
Total									1,019.40	19,304.19	343.45	14,600.32	6,066.71	20,667.04	
Components (%)									4.9%	93.4%	1.7%	70.6%	29.4%	100.0%	
Unit Rate									102.10	1,933.50	34.40	1,462.36	607.64	2,070.00	

Miscellaneous covers the cost for end reinforcement, formwork, fittings, binding wire, etc.

W0549 Secondary Concrete for Precast PC Deck Slab													Unit: 10.00 m3			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	328.00	328.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00	
W0206	Concrete (Class AA2, 28MPa, max size 20mm)	m3	10.20	2.1%	83.8%	14.0%	57.9%	42.1%	1,830.00	399.45	15,645.67	2,620.88	10,808.79	7,857.21	18,666.00	Loss 2.0%
R0402-020	Truck Crane, Hydraulic 15-20t	hr	1.54	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	115.35	128.88	1,405.57	847.83	799.97	1,647.80	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									1,277.00	16,773.55	4,026.45	11,656.62	9,420.38	21,077.00		
Components (%)									6.1%	74.8%	19.1%	55.3%	44.7%	100.0%		
Unit Rate									127.84	1,679.08	403.08	1,166.93	943.07	2,110.00		

W0551 Precast PC Girder Erection (W < 12.5t)													Unit: 85.00 t		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080															

W0553 Precast PC Girder Erection (15.0 ≤ W < 17.5t)											Unit: 100.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	5.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,428.07	9,409.51	8,177.29	17,586.80	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									4,738.08	738.65	16,428.07	9,409.51	12,493.29	21,902.80	21,902.80	
Components (%)									21.6%	3.4%	75.0%	43.0%	57.0%	100.0%	100.0%	
Unit Rate									47.37	7.39	164.24	94.08	124.92	219.00	219.00	
Work Capacity =									100 t/day							

W0554 Precast PC Girder Erection (17.5 ≤ W < 20t)											Unit: 110.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	5.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,428.07	9,409.51	8,177.29	17,586.80	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									4,738.08	738.65	16,428.07	9,409.51	12,493.29	21,902.80	21,902.80	
Components (%)									21.6%	3.4%	75.0%	43.0%	57.0%	100.0%	100.0%	
Unit Rate									43.05	6.71	149.24	85.49	119.51	199.00	199.00	
Work Capacity =									110 t/day							

W0555 Precast PC Girder Erection (20.0 ≤ W < 35.0 t)											Unit: 190.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	11.42	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	844.17	1,477.29	32,852.14	18,819.03	16,354.67	35,173.60	35,173.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									6,300.17	1,477.29	32,852.14	18,819.03	21,810.67	40,624.00	40,624.00	
Components (%)									15.5%	3.6%	80.9%	46.3%	53.7%	100.0%	100.0%	
Unit Rate									33.18	7.78	173.94	99.12	114.88	214.00	214.00	
Work Capacity =									190 t/day							

W0556 Precast PC Girder Erection (35.0 ≤ W < 60.0 t)											Unit: 225.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-120	Truck Crane, Hydraulic 101-120t	hr	11.42	1.1%	1.9%	97.0%	53.9%	45.1%	8,960.00	874.32	1,610.18	77,098.70	42,853.75	36,829.45	79,483.20	79,483.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									6,330.32	1,510.18	77,098.70	42,853.75	42,885.45	84,939.20	84,939.20	
Components (%)									7.5%	1.5%	90.8%	50.5%	49.5%	100.0%	100.0%	
Unit Rate									28.17	6.72	343.11	190.71	187.29	378.00	378.00	
Work Capacity =									225 t/day							

W0557 Precast PC Girder Erection (60.0 ≤ W < 75.0 t)											Unit: 235.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-140	Truck Crane, Hydraulic 121-140t	hr	11.42	0.9%	1.9%	97.2%	54.0%	46.0%	6,240.00	846.91	1,787.92	91,468.99	50,842.72	43,268.08	94,100.80	94,100.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									6,302.91	1,787.92	91,468.99	50,842.72	48,214.08	99,558.80	99,558.80	
Components (%)									8.3%	1.8%	91.9%	51.1%	48.9%	100.0%	100.0%	
Unit Rate									25.84	7.61	389.84	216.59	207.47	424.00	424.00	
Work Capacity =									235 t/day							

W0558 Precast PC Girder Erection (75.0 ≤ W < 80.0 t)											Unit: 250.00 t					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-160	Truck Crane, Hydraulic 141-160t	hr	11.42	0.8%	1.9%	97.3%	54.0%	46.0%	8,960.00	818.59	1,944.14	99,560.47	55,294.14	47,928.06	102,322.20	102,322.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									6,274.59	1,944.14	99,560.47	55,294.14	53,485.06	107,779.20	107,779.20	
Components (%)									5.8%	1.8%	92.4%	51.3%	48.7%	100.0%	100.0%	
Unit Rate									25.09	7.77	398.13	221.12	209.88	431.00	431.00	
Work Capacity =									250 t/day							

W0501 Pier Protection Concrete Block Type A Production & Laying											Unit: 10.00 each					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0203	Concrete (Class A, 21MPa, max sz. 38mm)	m3	10.73	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	428.17	13,902.51	2,837.32	9,745.61	7,422.39	17,168.00	17,168.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.82	16.8%	0.2%	84.0%	45.0%	55.0%	258.00	428.02	5.32	2,280.82	1,222.30	1,491.88	2,714.16	2,714.16
W0237	Concrete Curbs (reinforced concrete)	m3	10.82	74.6%	7.6%	17.6%	14.0%	86.0%	4.29	33.68	3.44	8.02	6.30	38.83	45.13	45.13
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	262.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	947.14	4,716.83	479.06	3,309.03	2,836.81	6,144.84	6,144.84
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.5%	8.3%	83.2%	50.5%	49.6%	881.00	119.82	117.00	1,172.79	712.39	697.21	1,409.60	1,409.60
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	0.00	806.40	806.40
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	0.00	1,664.00	1,664.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	299.52	299.52	329.47	299.52	698.04	698.04
Total									4,427.23	13,045.42	7,377.52	15,235.10	15,235.10	30,551.17	30,551.17	
Components (%)									14.5%	62.3%	23.2%	59.2%	49.8%	100.0%	100.0%	
Unit Rate									442.43	1,307.60	738.93	1,524.06	1,524.06	3,050.00	3,050.00	
Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.									Concrete = 1.052 m3/each							

W0502 Pier Protection Concrete Block Type B Production & Laying											Unit: 10.00 each					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local								
W0203	Concrete (Class A, 21MPa, max sz. 38mm)	m3	10.09	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	402.63	13,073.29	2,668.08	9,164.33	6,919.67	16,144.00	16,144.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.89	15.8%	0.2%	84.0%	45.0%	55.0%	268.00	402.39	5.00	2,144.23	1,149.10	1,402.52	2,551.82	2,551.82
W0237	Concrete Curbs (reinforced concrete)	m3	9.89	74.6%	7.6%	17.6%	14.0%	86.0%	4.29	31.66	3.23	7.54	5.92	36.51	42.43	42.43

W0603 Pier Protection Concrete Block Type C Production & Laying											Unit: 10.00 each					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0205	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.09	2.6%	81.0%	16.5%	56.8%	43.2%	1,600.00	402.63	13,073.29	2,668.08	9,164.33	6,979.67	16,144.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	402.39	5.00	2,144.23	1,149.10	1,402.52	2,561.82	
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.6%	7.0%	17.8%	14.0%	86.0%	4.29	31.66	3.23	7.54	5.92	36.51	42.43	
W0261	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	864.45	4,285.93	432.18	2,985.18	2,558.28	5,543.46	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.5%	8.3%	83.2%	50.5%	49.5%	891.00	119.82	117.00	1,172.79	712.39	697.21	1,409.60	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,864.00	0.00	0.00	0.00	1,664.00	1,664.00	2.0%
L020	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	281.82	291.82	309.78	233.45	863.23	
Total									4,281.35	17,736.90	5,706.43	14,399.04	14,399.04	28,724.74		
Components (%)									14.9%	61.7%	23.3%	49.9%	50.1%	100.0%		
Unit Rate									427.77	1,772.17	670.07	1,431.41	1,438.56	2,870.00		

Miscellaneous covers the cost for mould, forms, cert, minor tools, etc. Concrete = 0.989 m3/each

W0011 Stone Laying											Unit: 100.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00	
W0129	Gravel/Stone, transported	m3	113.00	11.8%	18.6%	69.6%	44.9%	55.1%	189.00	2,650.18	4,190.00	15,636.85	10,094.77	12,392.23	22,487.00	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	8.70	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	681.21	1,271.59	13,185.20	8,004.77	7,133.23	15,138.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	8.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
L020	Miscellaneous	LS	1.00	0.0%	0.0%	30.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									3,821.36	5,461.59	28,822.04	18,093.64	20,005.46	38,100.00		
Components (%)									10.9%	14.3%	35.5%	41.5%	52.5%	100.0%		
Unit Rate									38.21	54.61	288.18	180.97	200.03	381.00		

W0651 Temporary Support at Pier Head for Cantilever Construction											Unit: 10.00 v-m3					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	180.40	0.00	0.00	0.00	180.40	180.40	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	533.00	0.00	0.00	0.00	533.00	533.00	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W0442	Temporary Frame Support Depreciation	m3-d	740.00	0.0%	98.3%	3.7%	50.0%	50.0%	0.76	0.00	643.00	20.88	281.94	281.94	563.88	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.35	154.65	1,992.29	1,181.76	1,092.54	2,274.50	
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	59.77	25.19	41.98	41.98	89.96	2.0%
Total									1,487.16	756.42	2,038.36	1,805.66	2,776.28	4,281.94		
Components (%)									34.7%	17.7%	47.6%	35.2%	64.8%	100.0%		
Unit Rate									148.65	75.61	203.74	150.56	277.60	428.00		

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc. Provided days = 74.0 days

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction											Unit: 1.00 t					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	90.20	0.00	0.00	0.00	90.20	90.20	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	984.00	0.00	0.00	0.00	984.00	984.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	516.00	0.00	0.00	0.00	516.00	516.00	
W05041	Temporary Steel Shapes Depreciation	t-d	74.00	0.0%	0.0%	0.0%	0.0%	0.0%	31.30	0.00	2,316.20	0.00	1,168.10	1,168.10	2,316.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	5.9%	87.6%	52.0%	48.0%	1,330.00	127.35	154.65	1,992.29	1,181.76	1,092.54	2,274.50	
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,031.54	442.00	736.82	736.82	1,473.63	23.0%
Total									1,943.96	3,502.07	2,434.38	3,076.68	4,804.05	7,860.73		
Components (%)									24.7%	44.4%	30.9%	39.0%	61.0%	100.0%		
Unit Rate									1,943.96	3,502.07	2,434.38	3,076.68	4,804.05	7,860.73		

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc. Provided days = 74.0 days

W0653 Temporary External & Internal Support at Pier Head for Cantilever Construction											Unit: 10.00 v-m3					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	45.10	0.00	0.00	0.00	45.10	45.10	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00	
W0442	Temporary Frame Support Depreciation	m3-d	570.00	0.0%	98.3%	3.7%	50.0%	50.0%	0.76	0.00	418.25	16.09	217.17	217.17	434.34	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	654.10	393.92	364.18	758.10	
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	46.48	19.82	33.20	33.20	69.41	4.0%
Total									510.15	516.29	700.10	644.29	1,082.25	1,726.56		
Components (%)									29.5%	29.9%	40.5%	37.3%	62.7%	100.0%		
Unit Rate									51.02	51.63	70.01	64.43	108.23	172.66		

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc. Provided days = 57.0 days

W0654 Temporary Suspension Support at Center Connection for Cantilever Construction											Unit: 1.00 t					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	90.20	0.00	0.00	0.00	90.20	90.20	
L019	Skilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,148.00	0.00	0.00	0.00	1,148.00	1,148.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
W05041	Temporary Steel Shapes Depreciation	t-d	31.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	970.30	0.00	485.15	485.15	970.30	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	213.01	266.86	3,332.13	1,976.51	1,827.29	3,803.80	
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,209.60	518.43	864.05	864.05	1,728.09	25.0%
Total									2,084.41	2,438.82	3,850.58	3,326.71	5,048.88	8,374.59		
Components (%)									24.9%	29.1%	46.0%	35.7%	60.3%	100.0%		
Unit Rate									2,084.27	2,437.29	3,848.48	3,323.82	5,046.11	8,370.00		

W0657 Temporary External & Internal Support at Side Span for Cantilever Construction

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	461.00	46.10	0.00	0.00	0.00	46.10	46.10	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00	
W0442	Temporary Frame Support Deterioration	m3-d	530.60	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	388.90	14.96	201.93	201.93	403.86	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.87	5.6%	8.8%	87.0%	82.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	45.83	19.56	32.59	32.59	65.19	4.0%	
Total									510.15	486.09	698.61	628.41	1,008.40	1,694.65		
Components (%)									30.1%	28.7%	41.2%	37.1%	62.9%	100.0%		
Unit Rate									50.87	48.47	69.66	62.66	105.34	169.00		

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.
Provided days = 53.0 days

W0661 Assembly & Disassembly of Form Traveler

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	8,524.80	0.00	0.00	0.00	8,524.80	8,524.80	
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	37,310.00	0.00	0.00	0.00	37,310.00	37,310.00	
L020	Unskilled Labor	md	85.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	27,466.00	0.00	0.00	0.00	27,466.00	27,466.00	
R0402-045	Truck Crane, Hydraulic 41-45t	hr	85.65	3.4%	5.0%	91.6%	53.1%	46.9%	2,240.00	6,523.10	9,692.80	175,740.10	101,824.88	90,031.11	191,856.00	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	50,112.75	21,478.89	35,794.82	35,794.82	71,589.64	
Total									79,813.90	59,752.28	107,216.99	137,619.71	199,116.72	336,735.44		
Components (%)									23.1%	17.7%	58.6%	40.9%	59.1%	100.0%		
Unit Rate									79,876.37	59,752.28	107,371.35	137,727.43	199,272.57	337,000.00		

Miscellaneous covers the cost for ancillary materials of form traveler, etc.

W0662 Form Traveler Shifting

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	
L019	Skilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	574.00	0.00	0.00	0.00	574.00	574.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	270.28	180.19	225.23	225.23	450.47	
Total									1,669.40	270.28	225.23	1,894.63	2,120.00			
Components (%)									18.7%	12.8%	8.5%	10.6%	89.4%	100.0%		
Unit Rate									1,669.29	270.43	225.23	1,894.63	2,120.00			

Miscellaneous covers the cost for lumber, PC rod, anchorage devices, etc.

W0663 Form Traveler Liftings

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	5.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,255.00	0.00	0.00	0.00	2,255.00	2,255.00	
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,240.00	0.00	0.00	0.00	2,240.00	2,240.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00		
Total									5,071.00	0.00	0.00	0.00	5,071.00	5,071.00		
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
Unit Rate									5,070.00	0.00	0.00	0.00	5,070.00	5,070.00		

Miscellaneous covers the cost for lumber, PC rod, anchorage devices, etc.

W0664 Form Traveler Pulling Back

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384.00	0.00	0.00	0.00	384.00	384.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00		
Total									1,164.00	0.00	0.00	0.00	1,164.00	1,164.00		
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
Unit Rate									1,163.00	0.00	0.00	0.00	1,163.00	1,163.00		

Miscellaneous covers the cost for lumber, PC rod, anchorage devices, etc.

W0671 PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	2,534.40	0.00	0.00	0.00	2,534.40	2,534.40	
L019	Skilled Labor	md	23.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	9,553.00	0.00	0.00	0.00	9,553.00	9,553.00	
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,536.00	0.00	0.00	0.00	5,536.00	5,536.00	
M09306	PC Strand, T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,846.00	35,934.00	119,780.00	Loss 6.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.43	5.6%	8.8%	87.6%	82.0%	48.0%	1,330.00	256.47	310.21	3,996.22	2,370.43	2,191.47	4,561.90	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	9,085.78	2,271.44	8,246.47	5,110.75	11,357.22	8.0%
Total									17,878.87	129,175.89	6,267.67	92,462.91	60,859.62	183,322.52		
Components (%)									11.7%	84.3%	4.1%	60.3%	39.7%	100.0%		
Unit Rate									17,841.26	128,904.26	6,254.45	92,268.41	60,731.59	183,000.00		

Miscellaneous covers the cost for sheaths, grout, tape, additional bars, binding wire, etc.

W0672 PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,230.00	0.00	0.00	0.00	1,230.00	1,230.00	
M09366	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	108,000.00	0.00	79,500.00	26,500.00	108,000.00	20.0%
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	12,857.80	8,578.40	11,793.30	9,536.00	28,676.00	
Total									1,230.00	118,857.80	8,578.40	91,293.30	37,036.00	128,676.00		
Components (%)									1.0%	92.4%	8.7%	70.9%	29.1%	100.0%		
Unit Rate									123.31	11,916.69	860.00	9,162.62	3,747.48	12,900.00		

Miscellaneous covers the cost forms, grout hose, tape, etc.

W0673 PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,567.00	0.00	0.00	0.00	3,567.00	3,567.00	
L020	Unskilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,696.00	0.00	0.00	0.00	1,696.00	1,696.00	
M09346	PC Anchorage 195, 225t 12T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	658.00	0.00	0.00	984.00	534.16	449.85	984.00	
R0711-005	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	1.50	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	27.28	824.74	466.02	388.98	852.00	
R0710-000	Grout Pump	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,920.00	1,042.80	877.20	1,920.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,260.19	2,168.79	2,437.84	2,437.84	6.0%	
Total									6,127.00	83,677.45	5,895.53	65,322.32	30,377.66	95,699.98		
Components (%)									6.4%	87.4%	6.2%	68.3%	31.7%	100.0%		
Unit Rate									812.70	8,367.75	695.55	8,532.23	3,037.77	9,570.00		

Miscellaneous covers the cost forms, grout hose, tape, etc.

W0676 PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)

#0677 PC Cable Anchorage, (5-T12.7, 90c) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	851.00	0.00	0.00	0.00	861.00	861.00
M09363	PC Anchorage #32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,600.00	0.00	9,375.00	3,125.00	12,500.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	2,084.32	1,389.54	1,910.82	1,563.24	3,473.86
	Total									861.00	14,584.32	1,389.54	11,285.82	5,548.24	16,834.86
	Components (%)									5.1%	86.6%	3.3%	57.9%	33.0%	100.0%
	Unit Rate	each								85.92	1,455.41	139.67	1,125.29	553.77	1,580.00

Miscellaneous covers the cost forms, grout hose, tape, etc.

#0678 PC Cable Tensioning, (5-T12.7, 90c) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	833.80	0.00	0.00	0.00	833.80	833.80
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,050.00	0.00	0.00	0.00	2,050.00	2,050.00
L020	Unskilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	672.00	0.00	0.00	0.00	672.00	672.00
M09343	PC Sheath, #75	m	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	150.00	0.00	1,500.00	0.00	975.00	525.00	1,500.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	721.60	391.71	329.89	721.60
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	1.10	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	19.99	604.81	341.75	283.05	624.80
R0710-000	Grout Pump	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,408.00	784.72	643.28	1,408.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	410.94	273.96	374.70	308.21	684.90
	Total									3,355.60	1,930.93	3,028.37	2,849.89	2,445.02	8,294.80
	Components (%)									40.5%	23.3%	36.3%	34.4%	55.6%	100.0%
	Unit Rate	each								335.56	193.09	302.84	284.99	244.50	829.48

Miscellaneous covers the cost forms, grout hose, tape, etc.

#0681 PC Bar Installation, (1-#32mm) for PC Box Girder (Transversal)

Unit: 1.00 c

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	5,576.00	0.00	0.00	0.00	5,576.00	5,576.00
L020	Unskilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,400.00	0.00	0.00	0.00	2,400.00	2,400.00
M09313	PC Tendon, #32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	136,000.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	213.01	258.66	3,332.13	1,978.51	1,827.29	3,803.80
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	55.0%	45.0%		0.00	7,137.67	1,784.42	4,907.15	4,014.94	8,922.88
	Total									9,110.61	143,396.33	5,116.55	102,083.65	65,539.82	157,623.48
	Components (%)									5.8%	91.0%	3.2%	64.8%	35.2%	100.0%
	Unit Rate	each								9,132.38	143,739.86	5,128.77	102,327.51	65,672.49	158,000.00

Miscellaneous covers the cost for sheaths, grout, tape, additional bars, binding wire, etc.

#0682 PC Bar Anchorage, (1-#32mm) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00
M09374	PC Anchorage #32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,820.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,502.50	1,001.66	1,377.29	1,126.87	2,504.15
	Total									451.00	16,702.50	1,001.66	12,777.29	5,377.87	18,155.16
	Components (%)									2.5%	92.0%	5.5%	70.4%	29.6%	100.0%
	Unit Rate	each								45.21	1,674.37	100.41	1,280.88	539.12	1,820.00

Miscellaneous covers the cost forms, grout hose, tape, etc.

#0683 PC Bar Tensioning, (#32mm) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80
L019	Skilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	1,886.00
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	0.00	640.00	640.00
M09354	PC Anchorage #32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	524.80	284.88	239.92	524.80
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	0.80	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	14.54	439.86	248.54	205.86	454.40
R0710-000	Grout Pump	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,024.00	556.16	467.84	1,024.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	314.82	209.88	288.59	236.12	524.70
	Total									2,956.80	12,829.36	2,198.54	10,153.17	7,291.53	18,014.70
	Components (%)									15.6%	71.2%	12.2%	59.7%	40.3%	100.0%
	Unit Rate	each								295.68	1,282.94	219.85	1,015.32	729.15	1,801.47

Miscellaneous covers the cost forms, grout hose, tape, etc.

#0686 PC Bar Installation, (1-#32mm) for PC Box Girder (Vertical in Web)

Unit: 1.00 c

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	5,576.00	0.00	0.00	0.00	5,576.00	5,576.00
L020	Unskilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,400.00	0.00	0.00	0.00	2,400.00	2,400.00
M09313	PC Tendon, #32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	136,000.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	213.01	258.66	3,332.13	1,978.51	1,827.29	3,803.80
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	55.0%	45.0%		0.00	7,137.67	1,784.42	4,907.15	4,014.94	8,922.88
	Total									9,110.61	143,396.33	5,116.55	102,083.65	65,539.82	157,623.48
	Components (%)									5.8%	91.0%	3.2%	64.8%	35.2%	100.0%
	Unit Rate	each								9,132.38	143,739.86	5,128.77	102,327.51	65,672.49	158,000.00

Miscellaneous covers the cost for sheaths, grout, tape, additional bars, binding wire, etc.

#0687 PC Bar Anchorage, (1-#32mm) for PC Box Girder (Vertical in Web)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00
M09374	PC Anchorage #32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,820.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,502.50	1,001.66	1,377.29	1,126.87	2,504.15
	Total									451.00	16,702.50	1,001.66	12,777.29	5,377.87	18,155.16
	Components (%)									2.5%	92.0%	5.5%	70.4%	29.6%	100.0%
	Unit Rate	each													

#0701 Precast Concrete Cover (680x480x70), furnish

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	1.76	2.3%	82.7%	15.0%	67.0%	43.0%	1,700.00	68.89	2,474.91	448.20	1,705.82	1,286.48	2,992.09	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.73	15.8%	0.2%	84.0%	46.0%	55.0%	258.00	70.39	0.00	375.08	201.01	245.33	446.94	
W0237	Concrete Curbing (reinforced concrete)	m3	1.73	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.54	0.66	1.32	1.04	6.28	7.42	
W0201	Reinforcing Bars, Grade 40	kg	305.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	4,886.40	0.00	3,176.16	1,710.24	4,886.40	
W02014	Structural Steel (Round Bar, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,271.56	0.00	1,590.09	681.47	2,271.56	
W02014	Structural Steel (Shanes, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	675.84	0.00	473.09	202.75	675.84	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.15	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	9.19	12.87	44.99	32.78	34.27	67.05	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	272.32	66.08	170.20	170.20	340.40	3.0%
	Total									154.00	10,595.34	937.67	7,349.87	4,337.13	11,687.01	
	Components (%)									1.3%	90.7%	9.0%	62.9%	37.1%	100.0%	
	Unit Rate	each								1.54	106.07	9.39	73.59	43.42	117.02	

Miscellaneous covers the cost forms, moulds, paint, etc.

#0702 Precast Concrete Cover (680x480x70), installation

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	17.50	0.00	11.29	101.61	56.45	112.90	112.90	12.0%
	Total									940.80	11.29	101.61	56.45	927.25	1,053.70	
	Components (%)									89.3%	1.1%	9.6%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.38	0.11	1.01	0.56	9.94	10.50	

Miscellaneous covers the cost for cart, etc.

#0703 Precast Concrete Cover (680x680x75), furnish

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	3.02	2.3%	82.7%	15.0%	67.0%	43.0%	1,700.00	118.20	4,246.72	769.08	2,926.51	2,207.49	5,134.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.96	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	661.65	1.32	11.91	7.29	667.60	674.68	
W0237	Concrete Curbing (reinforced concrete)	m3	2.96	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	9.48	0.97	2.26	1.77	10.93	12.70	
W0201	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	9,716.80	0.00	6,316.92	3,400.88	9,716.80	
W02014	Structural Steel (Round Bar, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	837.12	0.00	585.98	261.14	837.12	
W02014	Structural Steel (Shanes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.50	0.00	1,833.92	0.00	1,283.74	550.18	1,833.92	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.25	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	15.92	22.31	77.98	56.81	59.41	115.22	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	439.82	109.85	274.88	274.88	549.77	3.0%
	Total									805.25	17,099.98	971.18	11,452.91	7,422.50	18,875.41	
	Components (%)									4.3%	90.6%	5.1%	60.7%	39.3%	100.0%	
	Unit Rate	each								8.06	171.21	9.72	114.68	74.32	189.00	

Miscellaneous covers the cost forms, moulds, paint, etc.

#0704 Precast Concrete Cover (680x680x75), installation

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	17.50	0.00	11.29	101.61	56.45	112.90	112.90	12.0%
	Total									940.80	0.00	112.90	56.45	927.25	1,053.70	
	Components (%)									89.3%	0.0%	10.7%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.38	0.00	1.13	0.56	9.94	10.50	

Miscellaneous covers the cost for cart, etc.

#0711 Iron Step for Drop Inlet Manholes, furnish & installation

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W0201	Structural Steel (Round Bar, SS400)	kg	226.80	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,946.40	0.00	3,482.40	1,464.00	4,946.40	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	86.72	346.88	216.80	216.80	433.60	8.0%
	Total									473.60	5,033.14	346.88	3,679.29	2,174.33	5,853.62	
	Components (%)									6.1%	88.0%	5.9%	62.9%	37.1%	100.0%	
	Unit Rate	each								4.73	50.30	3.47	36.77	21.73	58.50	

Miscellaneous covers the cost for cutter, bender, cart, paint, etc.

#0712 Iron Step for Special Junction Box Manholes, furnish & installation

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W0201	Structural Steel (Round Bar, SS400)	kg	209.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,569.28	0.00	3,198.50	1,370.78	4,569.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	80.69	322.74	201.72	201.72	403.43	8.0%
	Total									473.60	4,649.97	322.74	3,400.21	2,045.10	5,445.31	
	Components (%)									6.7%	85.4%	5.9%	62.4%	37.6%	100.0%	
	Unit Rate	each								4.74	46.53	3.23	34.03	20.47	54.50	

Miscellaneous covers the cost for cutter, bender, cart, paint, etc.

#0716 Steel Grate for Manhole Inlet, furnish & installation

Unit: 40.00 kg

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W0201	Reinforcing Bars, Grade 40	kg	41.20	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	659.20	0.00	428.48	230.72	659.20	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	9.06	81.55	45.31	45.31	90.62	8.0%
	Total									473.60	668.26	473.79	749.69	1,223.42		
	Components (%)									38.7%	54.6%	6.7%	38.7%	61.3%	100.0%	
	Unit Rate	kg								11.85	16.71	2.04	18.75	30.60		

Miscellaneous covers the cost for cutter, bender, welding equipment, cart, etc.

#0721 Grating Cover for U-Ditch (W=300mm), furnish & installation

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00				

#0732 Granular Bedding for Rubble Concrete

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0122	Crushed Aggregate, transported	m3	12.00	0.0%	15.5%	75.2%	47.0%	53.0%	261.00	288.86	486.79	2,356.35	1,472.28	1,659.72	3,132.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	15.54	83.94	59.59	39.59	79.18	79.18	2.0%
	Total								1,115.86	502.63	2,419.59	1,511.87	2,529.31	4,038.18		
	Components (%)								27.6%	12.4%	59.9%	37.4%	62.6%	100.0%		
	Unit Rate	m3							111.64	50.29	242.08	151.25	252.75	404.00		

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

#0733 Washout Prevention Filter, Furnish and Laying

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	19.20	0.00	0.00	0.00	19.20	19.20	
W10202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	880.61	0.00	528.57	352.24	880.61	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	1.80	18.20	9.00	9.00	18.00	2.0%
	Total								19.20	882.41	18.20	537.36	360.44	917.81		
	Components (%)								2.1%	86.1%	1.8%	56.6%	41.5%	100.0%		
	Unit Rate	m2							1.92	88.24	1.82	53.75	36.05	91.80		

Miscellaneous covers the costs for minor tools, etc.

#0741 Grouted Riprap Class A

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0129	Gravel/Stone, transported	m3	9.00	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	211.87	333.72	1,245.41	804.01	986.99	1,791.00	Loss 20.0%
W0221	Mortar (1:3)	m3	2.55	1.7%	93.7%	4.5%	58.1%	41.9%	1,820.00	77.38	4,350.40	213.22	2,694.54	1,946.66	4,041.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	73.00	36.54	36.54	73.09	1.0%
	Total								1,668.05	4,684.12	1,531.72	3,534.90	3,946.99	7,981.89		
	Components (%)								15.8%	83.6%	20.7%	47.6%	52.1%	100.0%		
	Unit Rate	m3							116.81	468.29	153.13	353.40	394.60	798.00		

Miscellaneous covers the cost for scoop, shovel, broom, etc.
Proportion of mortar and aggregate = 25.0% 75.0%

#0742 Stone Masonry, laid

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L007	Masonry	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	282.60	0.00	0.00	0.00	282.60	282.60	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0129	Gravel/Stone, transported	m3	8.40	11.8%	18.6%	69.5%	44.9%	55.1%	199.00	197.75	311.47	1,162.39	750.41	921.19	1,671.60	Loss 20.0%
W0222	Mortar (1:2)	m3	3.06	1.6%	94.0%	4.5%	58.2%	41.8%	2,340.00	108.22	6,729.93	324.25	4,164.93	2,955.47	7,180.40	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	93.91	49.96	49.96	99.91	1.0%
	Total								1,455.95	7,011.40	1,685.55	4,955.30	5,125.01	10,691.31		
	Components (%)								14.6%	70.4%	15.7%	49.2%	50.8%	100.0%		
	Unit Rate	m3							145.60	701.14	168.56	496.96	512.50	1,069.00		

Miscellaneous covers the cost for scoop, shovel, broom, etc.
Proportion of mortar and aggregate = 30.0% 70.0%

#0751 Concrete Hollow Block (160x200x400mm), furnish & Laying (including mortar fill)

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L007	Masonry	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	518.10	0.00	0.00	0.00	518.10	518.10	
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	928.00	0.00	0.00	0.00	928.00	928.00	
N12012	Concrete Hollow Block (load bearing) 6"x8"x16" (160x200x400mm)	each	110.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,320.00	0.00	330.00	990.00	1,320.00	Loss 10.0%
W0221	Mortar (1:3)	m3	0.37	1.7%	93.7%	4.5%	58.1%	41.9%	1,820.00	11.23	631.24	30.94	390.94	282.46	673.40	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	39.00	19.50	19.50	39.00	1.0%
	Total								1,918.13	1,951.24	62.94	740.45	3,158.86	3,939.30		
	Components (%)								48.7%	49.5%	1.6%	18.8%	81.2%	100.0%		
	Unit Rate	each							19.18	19.51	0.70	7.41	31.99	39.40		

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

#0852 Aggregate Subbase Course for Side Walk (t=100mm)

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
R0305-037	Vibratory Single Smooth Drum 3.75t (Vibration Roller, combined, 3~4t)	hr	1.93	20.7%	9.0%	70.3%	44.0%	56.0%	431.00	172.19	74.86	584.78	386.00	468.83	831.83	
R0306-006	Vibration Rammer, 6in	day	0.85	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	86.34	67.96	80.14	54.18	134.30	
W0122	Crushed Aggregate, transported	m3	1.00	0.0%	15.5%	75.2%	47.0%	53.0%	261.00	328.41	550.08	2,652.58	1,653.61	1,878.49	3,539.18	Loss 32.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								1,468.80	691.29	3,315.41	2,109.81	3,355.49	5,105.29		
	Components (%)								20.7%	12.6%	60.7%	38.6%	61.4%	100.0%		
	Unit Rate	m2							14.69	6.92	33.15	21.12	33.58	54.70		

#0853 PCC Pavement (Plain), t=100mm for Side Walk

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Component (%)						Labor	Material	Equipment	Foreign	Local		
				Lab.	Mat.	Equip.	For.	Local								
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	418.98	2,483.98	0.00	0.00	0.00	2,483.98	2,483.98	
L020	Unskilled Labor	md	11.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,680.00	0.00	0.00	0.00	3,680.00	3,680.00	
W02015	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.40	2.5%	81.0%	16.5%	56.8%	43.2%	1,800.00	415.00	13,474.84	2,750.06	9,445.89	7,194.11	16,640.00	Loss 4.0%
W07101	Joint Filler (Bituminous t=10mm)	m2	2.50	0.0%	100.0%	0.0%	60.0%	40.0%	288.00	0.00	715.00	0.00	429.00	288.00	715.00	
W07111	Joint Sealant (0x10mm)	m	50.00	0.0%	100.0%	0.0%	60.0%	40.0%	62.70	0.00	3,135.00	0.00	1,881.00	1,254.00	3,135.00	
W02011	Structural Steel (Round Bar, SS400)	kg	246.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	5,375.88	0.00	3,763.12	1,812.76	5,375.88	
W08701	Steel Gas Pipe, 425	m	52.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	6,084.00	0.00	3,650.40	2,435.60	6,084.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0%
	Total								7,073.40	28,784.82	2,750.06	19,169.41	19,438.87	41,628.94		
	Components (%)															

W0872 Guardrail Type B, furnish

Unit: 8.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks	
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	46.08	0.00	0.00	0.00	46.08	46.08		
L009	Welder	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	81.44	0.00	0.00	0.00	81.44	81.44		
L010	Painter	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	71.68	0.00	0.00	0.00	71.68	71.68		
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20	131.20		
M02015	Structural Steel (Plates, SS400)	kg	93.64	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	20.20	0.00	1,891.53	0.00	1,324.07	567.46	1,891.53	Loss 8.0%
M02031	Steel Pipe	kg	55.30	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	23.90	0.00	1,321.67	0.00	925.17	396.50	1,321.67	Loss 8.0%
M02381	Bolt M16x50	each	30.00	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	7.83	0.00	234.90	0.00	164.43	70.47	234.90	
M02359	Bolt M16x150	each	3.00	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	18.70	0.00	56.10	0.00	39.27	16.93	56.10	
R0901-025	Welding Machine 250A	day	0.16	0.0%	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	58.84	55.12	39.98	94.08	
R1001-100	Generator 51-100 kW	day	0.16	0.0%	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	205.87	229.83	258.10	175.30	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		198.16	588.48	523.09	823.09	784.63	1,307.72	30.0%	
	Total									326.58	4,330.59	833.56	3,285.25	2,350.55	5,656.80		
	Components (%)									9.3%	76.4%	14.3%	58.0%	42.0%	100.0%		
	Unit Rate									65.79	541.07	101.14	410.58	297.42	708.00		

Miscellaneous covers the cost for overheads of fabricator, haulage, galvanizing, paints, etc.

W0882 Chain Link Fence 25mm mesh (H=1.87m), furnished

Unit: 47.26 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks	
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	270.72	0.00	0.00	0.00	270.72	270.72		
L009	Welder	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	239.23	0.00	0.00	0.00	239.23	239.23		
L010	Painter	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	425.60	0.00	0.00	0.00	425.60	425.60		
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	582.20	0.00	0.00	0.00	582.20	582.20		
M02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	23.90	0.00	5,585.43	0.00	3,909.80	1,875.63	5,585.43	Loss 3.0%
M02014	Structural Steel (Shapes, SS400)	kg	419.80	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	17.60	0.00	7,388.48	0.00	5,171.94	2,216.54	7,388.48	Loss 3.0%
M02016	Structural Steel (Plates, SS400)	kg	32.70	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	20.20	0.00	860.54	0.00	482.38	198.16	860.54	Loss 3.0%
M02011	Structural Steel (Round Bar, SS400)	kg	29.30	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	21.80	0.00	638.74	0.00	447.12	191.62	638.74	Loss 3.0%
M02061	Chain Link Wire Net	m ²	86.49	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	158.00	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32	Loss 3.0%
R0901-025	Welding Machine 250A	day	0.47	0.0%	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	109.99	166.37	181.91	114.45	278.36	
R1001-100	Generator 51-100 kW	day	0.47	0.0%	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	589.16	675.14	749.37	514.93	1,264.30	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		1,433.79	4,301.36	3,823.43	3,823.43	5,735.16	9,558.58	30.0%	
	Total									2,951.64	33,904.02	4,654.94	24,597.19	16,523.33	41,420.50		
	Components (%)									7.1%	81.6%	11.3%	60.1%	39.9%	100.0%		
	Unit Rate									62.42	714.92	98.66	526.55	349.45	876.00		

Miscellaneous covers the cost for overheads of fabricator, haulage, galvanizing, paints, etc.

W0911 Digging Out Tree, Low Tree H≤1.5m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	984.00	0.00	0.00	0.00	984.00	984.00	
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	736.00	0.00	0.00	0.00	736.00	736.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,892.80	0.00	0.00	0.00	1,892.80	1,892.80	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate									18.90	0.00	0.00	0.00	18.90	18.90	

W0912 Digging Out Tree, Medium Tree 1.5m<H≤3.0m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L019	Skilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,845.00	0.00	0.00	0.00	1,845.00	1,845.00	
L020	Unskilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,440.00	0.00	0.00	0.00	1,440.00	1,440.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,630.60	0.00	0.00	0.00	3,630.60	3,630.60	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate									36.30	0.00	0.00	0.00	36.30	36.30	

W0913 Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	919.20	0.00	0.00	0.00	919.20	919.20	
L019	Skilled Labor	md	8.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,485.00	0.00	0.00	0.00	3,485.00	3,485.00	
L020	Unskilled Labor	md	8.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,952.00	0.00	0.00	0.00	1,952.00	1,952.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									6,416.20	0.00	0.00	0.00	6,416.20	6,416.20	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate									64.20	0.00	0.00	0.00	64.20	64.20	

W0921 Tree Haulage, Low Tree H≤1.5m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	6.62	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	344.16	482.33	1,885.85	1,227.99	1,284.15	2,512.14	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									344.16	482.33	1,885.85	1,227.99	1,284.15	2,512.14	
	Components (%)									13.7%	19.2%	67.1%	48.9%	51.1%	100.0%	
	Unit Rate									3.44	4.82	16.84	12.27	12.83	25.10	

T = (AWN+2L)/V/N
 N: Loading capacity = 50.00 each
 L: Haulage Distance = 3.90 km
 A: Loading Time = 0.05 hr/each
 V: Traveling Speed = 25.00 km/hr

W0922 Tree Haulage, Medium Tree 1.5m<H≤3.0m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	10.69	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	654.64	917.46	3,206.33	2,335.80	2,442.63	4,778.43	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									654.64	917.46	3,206.33	2,335.80	2,442.63	4,778.43	
	Components (%)									13.7%	19.2%	67.1%	48.9%	51.1%	100.0%	
	Unit Rate									6.55	9.18					

#0932 Tree Planting, Medium Tree 1.5m<H≤3.0m											Unit: 100.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,517.00	0.00	0.00	0.00	1,517.00	1,517.00
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00
	Miscellaneous	LS	1.99						0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									2,755.00	0.00	0.00	0.00	0.00	2,755.00	2,755.00
Components (%)									100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Unit Rate									27.70	0.00	0.00	0.00	0.00	27.70	27.70

#0933 Tree Planting, High Tree (young tree) 1.5m<H≤3.0m											Unit: 100.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,843.20	0.00	0.00	0.00	1,843.20	1,843.20
L019	Skilled Labor	md	16.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,601.00	0.00	0.00	0.00	6,601.00	6,601.00
L020	Unskilled Labor	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,072.00	0.00	0.00	0.00	3,072.00	3,072.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									11,516.20	0.00	0.00	0.00	0.00	11,516.20	11,516.20
Components (%)									100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Unit Rate									115.00	0.00	0.00	0.00	0.00	115.00	115.00

#0951 Precast Curbstone for Planter Square, Furnish											Unit: 100.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max aux. 38mm)	m3	2.30	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	91.78	2,080.04	608.19	2,088.99	1,591.01	3,680.00
W0235	Concrete Pouring by Manpower for small structures	m3	2.25	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	502.94	1.01	9.05	5.53	507.47	513.00
W0236	Concrete Curing (plain concrete)	m3	2.25	70.9%	8.7%	20.4%	15.0%	84.0%	9.02	14.40	1.77	4.13	3.25	17.05	20.30
R0601-006	Dump Truck, 6.0-9.0 cur-nds (4.5-6.9m3)	hr	0.20	10.1%	17.9%	72.0%	53.7%	49.3%	604.00	12.20	21.82	56.98	81.24	59.59	129.80
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	208.04	138.89	173.36	346.73	346.73
Total									621.32	3,122.41	947.04	2,332.38	2,348.45	4,589.83	4,589.83
Components (%)									13.7%	68.6%	18.1%	49.8%	50.2%	100.0%	100.0%
Unit Rate									6.21	32.12	5.47	23.32	23.48	45.80	45.80

Miscellaneous covers the cost for mould, forms, haulage, etc.

#0952 Precast Curbstone for Planter Square, Laying											Unit: 100.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40
L007	Masonrv	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	894.90	0.00	0.00	0.00	894.90	894.90
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	50.0%	50.0%	0.00	0.00	107.69	26.92	67.31	134.61	134.61
Total									3,365.30	107.69	26.92	67.31	3,432.61	3,492.91	
Components (%)									96.2%	3.1%	0.8%	1.9%	98.1%	100.0%	
Unit Rate									33.65	1.08	0.27	0.67	34.33	35.00	

Miscellaneous covers the cost for bed mortar, joint mortar, etc.

#0956 Treading Prevention Board for Planter Square, Furnish											Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max aux. 38mm)	m3	6.12	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	244.21	7,928.49	1,618.30	5,558.54	4,233.45	9,792.00
W0235	Concrete Pouring by Manpower for small structures	m3	6.00	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,341.18	2.68	24.14	14.75	1,352.25	1,358.00
W0236	Concrete Curing (plain concrete)	m3	6.00	70.9%	8.7%	20.4%	15.0%	84.0%	9.02	38.36	4.72	11.02	8.56	45.46	54.12
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	480.00	15.4%	75.8%	7.8%	53.9%	46.1%	25.40	1,731.26	5,625.07	875.67	5,048.49	5,163.51	11,232.00
R0601-006	Dump Truck, 6.0-9.0 cur-nds (4.5-6.9m3)	hr	0.90	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	54.90	97.30	391.39	275.57	268.03	543.60
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	1,103.51	735.67	919.59	919.59	1,839.18
Total									3,409.94	17,792.77	3,655.19	12,825.60	12,003.29	24,828.90	24,828.90
Components (%)									14.7%	71.6%	14.7%	51.7%	45.3%	100.0%	100.0%
Unit Rate									34.06	171.42	35.52	128.11	119.89	248.00	248.00

Miscellaneous covers the cost for mould, forms, haulage, etc.

#0957 Treading Prevention Board for Planter Square, Laying											Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80
L007	Masonrv	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	1,224.60	0.00	0.00	0.00	1,224.60	1,224.60
L020	Unskilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,376.00	0.00	0.00	0.00	1,376.00	1,376.00
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	150.01	64.29	107.15	107.15	214.30
Total									3,051.40	150.01	64.29	107.15	3,168.55	3,275.70	
Components (%)									93.8%	4.6%	2.0%	3.3%	96.7%	100.0%	
Unit Rate									30.51	1.50	0.64	1.07	31.73	32.80	

Miscellaneous covers the cost for joint mortar, scoop, broom, etc.

#1001 Underground Cable Duct											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0102	Excavation, Backhoe 0.35m3	m3	3.00	6.5%	8.4%	85.1%	51.8%	48.2%	48.40	9.63	12.45	126.12	76.78	71.42	148.20
W0111	Disposal of Surplus Soil (backhoe loadina)	m3	0.90	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	6.91	12.36	64.82	43.06	40.71	83.79
W0133	Backfill C	m3	2.10	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	35.40	35.96	233.14	150.16	154.34	304.50
W0201	Lean Concrete (17MPa, max aux. 38mm)	m3	0.92	2.7%	79.4%	17.0%	55.5%	43.5%	1,460.00	36.82	1,091.77	243.21	769.40	592.20	1,361.60
W0235	Concrete Pouring by Manpower for small structures	m3	0.90	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	201.18	0.40	3.62	2.21	209.99	205.20
W0236	Concrete Curing (plain concrete)	m3	0.90	70.9%	8.7%	20.4%	15.0%	84.0%	9.02	5.76	0.71	1.65	1.30	8.12	
W0302	Electric Conduit	m	10.00	0.0%	100.0%	0.0%	45.0%	55.0%	67.90	0.00	679.00	0.00	305.55	373.45	679.00
W0305	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	623.00	0.00	342.65	280.35	623.00
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	128.70	0.00	0.00	0.00	128.70	
	Miscellaneous	LS	1.00	0.0%	60.0%	50.0%	50.0%	50.0%	0.00	0.00	18.00	18.00	18.00	36.00	
Total									481.80	2,483.63	890.28	1,709.13	1,926.65	3,635.71	
Components (%)									13.3%	67.8%	18.0%	47.0%	53.0%	100.0%	
Unit Rate									48.18	248.36	89.03	170.91	192.66	363.57	

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

#1011 Electric Cable Laying											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W1305	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	623.00	0.00	342.65	280.35	623.00
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	128.70	0.00	0.00	0.00	128.70	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00						

#1102 Traffic Signal Post Type A (West Arms) H=8.0m, Furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	172.80	172.80	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	610.80	610.80	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	615.00	615.00	
M02031	Steel Pipe	kg	362.49	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	8,424.61	0.00	5,897.16	2,527.35	8,424.61	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	1,160.29	0.00	812.20	348.09	1,160.29	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.20	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	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.17	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	14.20	22.64	109.83	74.18	72.19	146.37	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	97.41	2,191.76	2,591.41	2,079.82	2,191.76	4,879.59	30.0%
Total										1,510.21						
Components (%)										12.4%						
Unit Rate										1,509.70						

Miscellaneous covers the cost for fittings, painting, haulage, overhead and facilities of fabricator, etc.

#1103 Traffic Signal Posts Type B ø114.3mm x 4.2m, Furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	1,337.68	0.00	936.38	401.30	1,337.68	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	118.85	0.00	81.80	35.06	118.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	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	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.56	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.03	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	2.51	3.98	19.35	13.09	12.74	25.83	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	41.78	939.98	1,107.06	1,148.88	939.98	2,088.84	30.0%
Total										1,162.02						
Components (%)										12.4%						
Unit Rate										1,161.47						

Miscellaneous covers the cost for painting, haulage, overhead and facilities of fabricator, etc.

#1104 Traffic Signal Posts Type C ø114.3mm x 3.4m, Furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
M02031	Steel Pipe	kg	45.28	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	1,081.71	0.00	787.20	324.51	1,081.71	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	118.85	0.00	81.80	35.06	118.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	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	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.56	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.03	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	2.51	3.98	19.35	13.09	12.74	25.83	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	41.78	939.98	1,107.06	1,148.88	939.98	2,088.84	30.0%
Total										1,160.48						
Components (%)										12.8%						
Unit Rate										1,160.27						

Miscellaneous covers the cost for fittings, painting, haulage, overhead and facilities of fabricator, etc.

#1105 Pedestrian Signal Posts Type D ø114.3mm x 3.0m, Furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
M02031	Steel Pipe	kg	40.91	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	956.24	0.00	659.37	285.24	956.24	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	118.85	0.00	81.80	35.06	118.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	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	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.56	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.03	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	2.51	3.98	19.35	13.09	12.74	25.83	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	41.02	923.04	1,087.13	1,128.16	923.04	2,051.20	30.0%
Total										1,159.73						
Components (%)										15.8%						
Unit Rate										1,159.92						

Miscellaneous covers the cost for fittings, painting, haulage, overhead and facilities of fabricator, etc.

#1201 Street Lighting Pole (single lamp), furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	610.80	0.00	0.00	0.00	610.80	610.80	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00	
M02031	Steel Pipe	kg	231.21	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	5,525.92	0.00	3,868.14	1,657.78	5,525.92	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	31.08	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	627.82	0.00	439.47	188.35	627.82	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.20	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	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.11	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	9.19	14.59	70.84	46.71	94.71	180.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	861.00	380.85	1,142.85	2,265.09	1,904.25	1,804.25	3,808.49	30.0%
Total										1,731.04						
Components (%)										10.5%						
Unit Rate										1,730.67						

Miscellaneous covers the costs for fittings, overhead and facilities of fabricator, painting, etc.

#1202 Street Lighting Pole (double lamp), furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	610.80	0.00	0.00	0.00	610.80	610.80	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00	
M02031																

#2001 Heavy Equipment Assembly & Disassembly

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L019	Skilled Labor	md	35.34	100.0%	0.0%	0.0%	0.0%	100.0%	470.00	14,489.40	0.00	0.00	0.00	14,489.40	14,489.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	19.47	8.5%	8.3%	83.2%	50.8%	49.5%	891.00	1,423.70	1,423.70	14,271.35	8,668.86	8,484.21	17,153.07	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	37.23	7.0%	7.7%	85.3%	51.2%	48.3%	1,070.00	2,768.53	3,087.38	33,980.19	20,496.63	19,339.47	39,836.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	5.6%	6.8%	87.6%	52.0%	49.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	0.00	5.1%	7.3%	87.6%	52.2%	47.8%	1,470.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-035	Truck Crane, Hydraulic 31-35t	hr	0.00	4.5%	6.4%	89.1%	52.4%	47.6%	1,680.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	60.0%	55.0%	45.0%	0.00	0.00	1,429.57	1,429.57	1,572.53	1,286.51	2,859.14	4.0%
	Total									18,735.94	6,926.66	49,681.12	30,738.01	43,599.70	74,337.71	
	Components (%)									25.2%	8.0%	66.8%	41.3%	68.7%	100.0%	
	Unit Rate	LS								18,726.43	5,917.65	49,655.91	30,722.42	43,577.58	74,300.00	

Miscellaneous covers the cost for grease, lubricant, minor tools, etc.

Item No.	Description	Unit	Quantity	Specification	No.	Wk (t)	Labor (day)	Required Days of Truck Crane for Assembly & Disassembly					Wz (t)	Wb (t)
								11-15t	16-20t	21-25t	26-30t	31-35t		
	Bulldozer			15t	3	14.6	0.00					14.60	0.00	
				21t	3	21.9	3.41					20.66	1.34	
	Labor = 0.0797Wk + 0.01 Crane operation days = 0.0322Wk + 0.43 Remaining Part Weight Wz = 0.4295Wk + 11.15													
	Crawler Crane			22.5t	0	26.6	0.00					26.77	5.83	
				25~27t	0	27.8	0.00					20.92	6.87	
				35~37t	4	36.2	30.07			6.52		22.09	14.11	
				40t	0	41.1	0.00				0.00	22.77	18.33	
				50t	0	49.8	0.00				0.00	23.87	26.83	
				60t	0	65.6	0.00				0.00	26.15	39.45	
	All Casing Excavator			φ1200max	0	24.0	0.00					22.36	1.64	
				φ1500max	0	39.9	0.00					24.89	15.01	
				φ2000max	0	49.0	0.00					28.34	22.66	
	Total				7	35.34	3.41	6.52	0.00	0.00	0.00			
	Operation hours per day						5.71	5.71	5.71	5.71	5.71			

#2002 Transportation of Disassembled Equipment

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0604-020	Trailer 20t	hr	0.00	3.9%	10.7%	93.4%	53.3%	46.7%	1,670.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0604-045	Trailer 45t	hr	25.90	2.4%	8.2%	99.4%	53.9%	46.1%	2,700.00	1,878.32	5,134.28	82,517.42	37,710.18	32,219.82	69,930.00	
R0602-009	Cargo truck 9.0-10.0t	hr	25.90	9.7%	15.4%	74.0%	60.7%	49.3%	861.00	2,163.09	3,434.18	16,702.63	11,300.79	10,999.11	22,299.90	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								3,841.41	9,168.41	79,220.05	49,010.97	43,219.93	92,229.90		
	Components (%)								4.2%	9.9%	85.9%	53.1%	46.9%	100.0%		
	Unit Rate	LS							3,840.16	9,166.47	79,194.36	48,995.08	43,202.92	92,200.00		

Item No.	Description	Unit	Quantity	No.	Wz (t)	Wb (t)	n/Wb	Trips of Trailer	Cargo Truck	Travel hour/trip = a * 2-L/V
	Bulldozer	15t	0	14.60	0.00	0	0	0	0	3.70 hr
		21t	3	20.66	1.34	4.02	0	3	0	
	Crawler Crane	22.5t	0	20.77	5.83	0	0	0	0	a: Loading Time = 0.60 hr
		25~27t	0	20.93	6.87	0	0	0	0	L: Travel Distance = 40.00 km
		35~37t	4	22.09	14.11	56.44	0	4	0	V: Travel Speed = 25.00 km/hr
		40t	0	22.77	18.33	0	0	0	0	
		50t	0	23.97	26.83	0	0	0	0	
		60t	0	26.15	39.45	0	0	0	0	
	All Casing Excavator	φ1200max	0	22.36	1.64	0	0	0	0	
		φ1500max	0	24.89	15.01	0	0	0	0	
		φ2000max	0	28.34	22.66	0	0	0	0	
	Total Trips						60.46	0	7	T = Σ(n*Wb/9.5/0.85)

#2003 Other Equipment & Material Haulage

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0604-020	Trailer 20t	hr	3.70	3.9%	10.7%	93.4%	53.3%	46.7%	1,670.00	240.98	561.15	5,276.87	3,293.79	2,895.21	6,179.00	
R0602-009	Cargo truck 9.0-10.0t	hr	74.00	9.7%	15.4%	74.0%	60.7%	49.3%	861.00	6,180.26	9,611.90	47,721.79	32,287.96	31,426.04	63,714.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	60.0%	55.0%	45.0%	0.00	0.00	349.47	349.47	384.41	314.82	698.93	1.0%
	Total								6,421.24	10,822.57	53,348.12	35,966.16	34,625.77	70,591.93		
	Components (%)								9.1%	15.3%	75.6%	49.1%	49.1%	100.0%		
	Unit Rate	LS							6,421.97	10,823.81	53,354.22	35,970.28	34,629.72	70,600.00		

Item No.	Description	Unit	Quantity	Travel hour/trip = a * 2-L/V
	Trailer 20t		1 trip	3.70 hr
	Cargo truck 9.0-10.0t		20 trip	a: Loading Time = 0.60 hr L: Travel Distance = 40.00 km V: Travel Speed = 25.00 km/hr

#2004 Establishment of Temporary Site Office & Yard

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Temporary Site Office/Yard	m2	4,000.00	10.0%	80.0%	40.0%	45.0%	55.0%	230.00	92,000.00	460,000.00	368,000.00	414,000.00	506,000.00	920,000.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								92,000.00	460,000.00	368,000.00	414,000.00	506,000.00	920,000.00		
	Components (%)								10.0%	50.0%	40.0%	45.0%	55.0%	100.0%		
	Unit Rate	LS							92,000.00	460,000.00	368,000.00	414,000.00	506,000.00	920,000.00		

#3001 Site Preparation for Engineer's Field Office and Living Quarters

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0101	Excavation, Bulldozer 21t	m3	10.00	1.6%	8.1%	90.3%	54.3%	45.7%	25.40	4.06	20.57	229.36	137.85	116.15	254.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								4.06	20.57	229.36	137.85	116.15	254.00		
	Components (%)								1.6%	8.1%	90.3%	54.3%	45.7%	100.0%		
	Unit Rate	m2							0.94	0.21	2.29	1.38	1.16	2.54		

#3002 150mm Thick Concrete Hollow Block Wall

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L007	Masonry	md	0.40	100.0%	0.0%	0.0%	100.0%	0.0%	471.00	188.40	0.00	0.00	0.00	188.40	188.40	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	100.0%	0.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
M2012	Concrete Hollow Block (load bearing) 6" x 8" x 16" (150x200x400mm)	each	128.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,536.00	0.00	384.00	1,152.00	1,536.00	Loss 2.0%
W0261	Reinforcement Grade 40, cutting, bending & assembly	kg	25.30	15.4%	78.8%	7.8%	53.9%	46.1%	23.40	91.25	454.61	46.16	318.81	273.21	592.02	Loss 2.0%
W0221	Mortar (1:3)	m3	0.46	1.7%	93.7%	4.6%	58.1%	41.9%	1,820.00	13.96	784.78	38.46	486.04	351.16	837.20	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	16.41	16.41	18.05	14.77	32.82	1.0%
	Total								421.61	2,791.60	101.03	1,206.89	2,107.51	3,314.44		
	Components (%)								12.7%	84.2%	3.0%	36.4%	63.6%	100.0%		
	Unit Rate	m2							42.16	279.16	10.10	120.69	210.75	331.44		

#3002a 100mm Thick Concrete Hollow Block Wall

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks

W3003 Structural Steel Fabrication and Erection for Engineers Office and Living Quarter

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	416.00	416.00	0.00	0.00	0.00	416.00	416.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M02014	Structural Steel (Shanes, SS400)	kg	420.00	0.0%	100.0%	0.0%	0.0%	100.0%	17.60	0.00	7,392.00	0.00	5,174.40	2,117.60	7,392.00
M02016	Structural Steel (Plates, SS400)	kg	630.00	0.0%	100.0%	0.0%	0.0%	100.0%	20.20	0.00	12,726.00	0.00	8,908.20	3,817.80	12,726.00
M02071	High Tension Bolt M16	each	8.00	0.0%	100.0%	0.0%	0.0%	100.0%	18.60	0.00	149.00	0.00	103.60	44.40	148.00
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	688.00	0.00	234.02	353.98	344.48	243.52	588.00
R1001-100	Generator 51-100 kW	dav	1.00	0.0%	46.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,253.54	1,436.46	1,694.40	1,095.60	2,690.00
R0402-030	Truck Crane, Hydraulic 26-30t	hr	2.88	5.1%	7.3%	87.6%	52.2%	47.8%	1,470.00	214.41	306.91	3,682.88	2,195.28	2,008.92	4,204.20
R0604-020	Trailer 20t	hr	0.19	3.9%	10.7%	85.4%	53.3%	46.7%	1,870.00	12.37	33.98	270.97	169.14	149.16	317.30
	Miscellaneous	LS	1.00	0.0%	45.0%	45.0%	55.0%	45.0%	0.00	898.73	4,044.26	4,044.26	4,942.99	4,944.26	3,987.25
	Total									3,017.51	26,106.69	9,785.65	23,432.49	15,512.28	38,944.75
	Components (%)									1.7%	67.1%	23.1%	50.2%	39.6%	100.0%
	Unit Rate									3,014.05	26,108.65	9,777.30	23,430.55	15,494.44	38,930.00

Miscellaneous covers the cost for facilities of fabricators, electricity and fuel consumption, welding rods, acetylene gas, paints, minor tools, etc.

W3004 Prepainted Corrugated G.I. Roofing Fabrication & Erection

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M1212	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,468.40	4,977.60	12,444.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
R0604-020	Trailer 20t	hr	0.04	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	2.61	7.15	57.05	35.61	31.19	66.80
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	156.36	156.36	171.99	178.72	312.71
	Total									1,332.11	12,736.83	1,819.47	6,652.26	7,266.16	15,948.41
	Components (%)									1.7%	79.9%	11.8%	51.3%	45.7%	100.0%
	Unit Rate									13.28	126.98	18.74	86.36	72.84	159.00

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

W3005 Prepainted Steel Wall Panels on Steel Frames with Insulation

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	254.50
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M1212	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,468.40	4,977.60	12,444.00
M1211	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	80.0%	40.0%	116.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M02014	Structural Steel (Shanes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	0.0%	100.0%	17.60	0.00	26,928.00	0.00	18,649.60	8,278.40	26,928.00
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	688.00	0.00	117.01	176.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.8%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	311.20	311.20	342.32	280.08	622.40
	Total									1,584.01	58,406.31	2,572.48	39,035.32	23,827.48	62,862.80
	Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%
	Unit Rate									15.85	584.41	25.74	393.66	238.42	629.00

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

W3006 Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	254.50
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M1211	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M1211	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M02014	Structural Steel (Shanes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	0.0%	100.0%	17.60	0.00	26,928.00	0.00	18,649.60	8,278.40	26,928.00
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	688.00	0.00	117.01	176.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.8%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	309.16	309.16	340.08	278.22	577.30
	Total									1,584.01	57,996.21	2,870.44	38,788.28	23,652.45	62,450.72
	Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%
	Unit Rate									15.85	580.42	28.73	388.19	236.81	625.00

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

W3007 Plain Cement Floor Finish

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L007	Masonrv	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	235.50	0.00	0.00	0.00	235.50	235.50
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00
W0221	Mortar (1:3)	m3	3.06	1.7%	93.7%	4.6%	58.1%	41.9%	1,820.00	92.88	5,220.48	255.86	3,233.21	2,335.99	5,569.20
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	178.94	178.94	196.84	161.05	357.88
	Total									489.38	5,399.43	434.80	3,430.05	2,392.54	5,322.88
	Components (%)									7.7%	85.4%	5.9%	64.3%	49.7%	100.0%
	Unit Rate														

F3011 Plain Cement Mortar Wall Finish											Unit: 100.00 m ²				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L007	Masonry	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	235.50	0.00	0.00	0.00	235.50	235.50
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	268.00	0.00	0.00	0.00	268.00	268.00
W0221	Mortar (1:3)	m3	3.05	1.7%	93.7%	4.8%	58.1%	41.9%	1,820.00	92.86	5,220.48	235.85	3,233.21	2,335.99	5,559.24
	Miscellaneous	LS	1.00	0.0%	0.0%	50.0%	50.0%	45.0%	0.00	181.89	181.89	0.00	0.00	181.89	181.89
	Total									594.36	5,402.31	437.68	3,433.21	2,991.13	6,424.34
	Components (%)									3.1%	54.1%	6.8%	53.4%	46.5%	100.0%
	Unit Rate									5.84	53.99	4.37	34.31	29.80	64.20

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

F3012 Steel Fixed Louver											Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	508.00	407.20	0.00	0.00	0.00	407.20	407.20
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
W02015	Structural Steel (Plates, SS400)	kz	21.42	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	432.68	0.00	302.89	129.80	432.68
R0901-026	Welding Machine 250A	day	0.80	0.0%	39.8%	50.2%	58.6%	41.4%	588.00	0.00	187.22	283.18	275.59	194.81	470.40
R1001-100	Generator 51-100 kW	day	0.80	0.0%	46.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,002.83	1,149.17	1,275.82	878.48	2,152.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.37	7.0%	7.7%	85.3%	61.8%	48.5%	1,070.00	102.81	112.87	1,250.41	754.24	711.68	1,468.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	324.13	324.13	0.00	905.54	741.71	1,648.25
	Total									1,075.81	2,559.73	3,505.69	3,514.76	3,627.87	7,144.43
	Components (%)									15.1%	25.9%	49.1%	49.2%	50.9%	100.0%
	Unit Rate									1,075.46	2,558.86	3,505.69	3,513.66	3,626.44	7,140.00

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

F3013 Doors & Windows for Engineer's Field Office and Living Quarters											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	3,052.80	0.00	0.00	0.00	3,052.80	3,052.80
L019	Skilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,519.00	0.00	0.00	0.00	6,519.00	6,519.00
L020	Unskilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,088.00	0.00	0.00	0.00	5,088.00	5,088.00
M12251	Steel Door with Steel Panels 900x2100mm	each	7.90	0.0%	100.0%	0.0%	45.0%	55.0%	5,330.00	0.00	38,710.00	0.00	17,419.50	21,290.50	38,710.00
M12252	Flush Type Hollow Core Door with 6mm thick ordinary plywood 800x2100mm	each	8.00	0.0%	100.0%	0.0%	20.0%	80.0%	2,500.00	0.00	20,000.00	0.00	4,000.00	16,000.00	20,000.00
M12253	Flush Type Hollow Core Door with 6mm thick marine plywood 800x2100mm	each	6.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,870.00	0.00	11,220.00	0.00	2,240.00	8,976.00	11,220.00
M12261	Jalousie Window with Steel Blades 2100x1500mm	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,750.00	0.00	33,750.00	0.00	15,187.50	18,562.50	33,750.00
M12262	Jalousie Window with Steel Blades 3000x1500mm	each	16.00	0.0%	100.0%	0.0%	45.0%	55.0%	12,560.00	0.00	200,000.00	0.00	90,000.00	110,000.00	200,000.00
M12263	Jalousie Window with Steel Blades 1400x900	each	2.80	0.0%	100.0%	0.0%	45.0%	55.0%	2,840.00	0.00	5,280.00	0.00	2,376.00	2,904.00	5,280.00
M12264	Jalousie Window with Steel Blades 820x250	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	458.00	0.00	2,290.00	0.00	1,030.50	1,259.50	2,290.00
W3012	Steel Fixed Louver	each	4.00	15.1%	35.8%	49.1%	49.2%	50.8%	7,140.00	4,301.79	10,235.44	14,022.77	14,054.25	14,605.75	28,560.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	354.47	354.47	0.00	389.92	319.02	708.94
	Total									18,961.69	321,839.91	14,377.24	146,701.67	208,477.07	355,178.74
	Components (%)									5.3%	90.6%	4.0%	41.3%	58.7%	100.0%
	Unit Rate									18,952.04	321,877.95	14,370.01	146,627.84	208,372.16	355,000.00

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

F3014 Lighting and Powers											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L012	Electrician	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	3,432.00	0.00	0.00	0.00	3,432.00	3,432.00
L019	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,640.00	0.00	0.00	0.00	1,640.00	1,640.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	40.00	0.0%	100.0%	0.0%	60.0%	40.0%	495.00	0.00	19,800.00	0.00	11,904.00	7,936.00	19,800.00
M13141	Ceiling Lamp, 3L+R with Heatless Type, Medium Base Porcelain Recessed	each	22.00	0.0%	100.0%	0.0%	60.0%	40.0%	172.00	0.00	3,784.00	0.00	2,270.40	1,513.60	3,784.00
M13151	One-way Wall Switch	each	8.00	0.0%	100.0%	0.0%	55.0%	45.0%	30.50	0.00	244.00	0.00	134.20	169.80	244.00
M13152	2 One-way Wall Switches on one Gang Plate	each	11.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	885.50	0.00	487.03	398.48	885.50
M13153	3 One-way Wall Switches on one Gang Plate	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	103.00	0.00	309.00	0.00	169.95	139.05	309.00
M13154	Duplex Convenience Outlet, Grounding Type	each	36.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	2,898.00	0.00	1,693.90	1,304.10	2,898.00
M13155	Heavy Duty Convenience Outlets, Single Grounding Type	each	4.00	0.0%	100.0%	0.0%	55.0%	45.0%	129.00	0.00	518.00	0.00	283.80	232.20	518.00
M13156	Air Conditioning Outlet Grounding Type with Automatic Circuit Breaker in One Enclosure	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	694.00	0.00	2,082.00	0.00	1,145.10	936.90	2,082.00
M13157	Enclosed Automatic Circuit Breaker	each	2.00	0.0%	100.0%	0.0%	65.0%	35.0%	8,190.00	0.00	8,190.00	0.00	5,323.50	2,866.50	8,190.00
M13158	Distribution Panel Board	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	12,100.00	0.00	24,200.00	0.00	14,520.00	9,680.00	24,200.00
M13159	Pull Box or Junction Box	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,040.00	0.00	2,080.00	0.00	1,248.00	832.00	2,080.00
M13160	Electric Service Meter	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,610.00	0.00	2,810.00	0.00	2,348.50	1,261.50	3,610.00
M13161	Concealed or Embedded Conduit Run	m	245.00	0.0%	100.0%	0.0%	50.0%	50.0%	7.52	0.00	1,842.40	0.00	921.20	921.20	1,842.40
M13162	Underground or Underfloor Conduit Run	m	107.00	0.0%	100.0%	0.0%	50.0%	50.0%	34.00	0.00	3,638.00	0.00	1,819.00	1,819.00	3,638.00
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	909.00	0.00	7,272.00	0.00	4,363.20	2,908.80	7,272.00
M13164	Galvanized Steel Lighting Post H=3.5m	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	4,570.00	0.00	37,360.00	0.00	22,416.00	14,944.00	37,360.00
M13165	Underground or Underfloor Conduit Run	m	175.00	0.0%	100.0%	0.0%	60.0%	40.0%	58.40	0.00	10,228.00	0.00	6,132.00	4,088.00	10,228.00
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	50.0%	50.0%	0.00	135.90	543.60	2,035.48	1,358.99	1,358.99	2,717.98
	Total									7,093.00	129,514.50	2,035.48	78,436.76	60,180.11	138,618.85
	Components (%)									3.1%	93.4%	1.5%	56.6%	43.4%	100.0%
	Unit Rate									7,083.42	129,572.46	2,044.12	78,653.55	60,346.45	139,000.00

Miscellaneous covers the cost for related earthworks, temporary works, minor materials and tools.

F3015 Super Water Line											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
W09310															

W3016 Septic Tank

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0105	Excavation, Backhoe 0.6m3	m3	24.57	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	45.22	84.41	875.28	531.38	473.63	1,004.91	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	12.32	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	94.59	169.26	883.15	589.75	557.24	1,146.99	
W0132	Backfill B	m3	12.25	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	105.80	136.04	1,117.00	666.50	683.25	1,359.75	
W0161	Gravel Foundation Fill	m3	0.82	25.0%	13.1%	61.9%	39.5%	81.1%	395.00	81.09	42.32	200.50	126.04	197.86	323.50	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	1.67	2.6%	81.0%	18.5%	58.8%	43.2%	1,800.00	56.64	2,163.76	441.60	1,616.79	1,156.21	2,072.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.64	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	66.73	0.83	355.56	190.85	232.67	423.12	
W0237	Concrete Curbs (reinforced concrete)	m3	1.64	74.6%	7.0%	17.8%	14.0%	86.0%	4.29	5.25	0.54	1.26	0.98	6.06	7.04	
W0241	Formwork (reinforced concrete H(4m))	m2	6.93	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	938.87	621.90	12.34	45.89	1,527.62	1,573.11	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	182.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	656.80	3,272.14	332.21	2,294.65	1,956.49	4,261.14	
W3002	15mm Thick Concrete Hollow Block Wall	m2	19.62	12.7%	84.2%	3.0%	36.4%	63.6%	331.00	826.09	6,470.18	197.95	2,364.75	4,129.47	6,494.22	
W3011	Plain Cement Mortar Wall Finish	m2	21.78	9.1%	84.1%	6.8%	53.4%	46.6%	84.20	127.19	1,175.83	95.26	747.25	681.00	1,398.26	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,014.27	13,137.21	4,512.99	9,104.24	11,360.22	20,664.46	
	Components (%)								14.6%	63.6%	21.8%	44.1%	55.9%	100.0%		
	Unit Rate	each							3,019.45	13,159.80	4,520.75	9,119.90	11,380.10	20,700.00		

W3017 Cyclone Fence and Gate for the Engineer's Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0102	Excavation, Backhoe 0.35m3	m3	15.58	6.5%	8.4%	85.1%	51.8%	48.2%	49.40	50.03	64.65	654.97	398.73	370.92	769.65	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1.12	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	8.60	15.39	80.26	53.61	50.66	104.27	
W0132	Backfill B	m3	14.46	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	124.89	160.58	1,319.68	822.16	782.90	1,605.06	
W0203	Concrete (Class A, 21MPa, max agr. 38mm)	m3	1.14	2.6%	81.0%	18.5%	56.8%	43.2%	1,800.00	45.49	1,477.06	301.45	1,035.41	788.89	1,824.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	45.57	0.57	242.82	130.13	158.83	288.95	
W0237	Concrete Curbs (reinforced concrete)	m3	1.12	74.6%	7.0%	17.8%	14.0%	86.0%	4.29	3.58	0.37	0.65	0.87	4.13	4.80	
W0241	Formwork (reinforced concrete H(4m))	m2	13.60	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,842.51	1,220.48	24.21	89.47	2,997.73	3,087.20	
W08706	Steel Gas Pipe, ø50	m	10.80	0.0%	100.0%	0.0%	60.0%	40.0%	284.00	0.00	3,175.20	0.00	1,905.12	1,270.08	3,175.20	
W08704	Steel Gas Pipe, ø50	m	18.20	0.0%	100.0%	0.0%	60.0%	40.0%	217.00	0.00	3,949.40	0.00	2,369.64	1,579.76	3,949.40	
W02001	Reinforcement Bars, Grade 40	kg	19.50	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	312.00	0.00	202.80	109.20	312.00	
W12101	Chain Link Fence Fabric	m	40.00	0.0%	100.0%	0.0%	50.0%	50.0%	1,480.00	0.00	58,400.00	0.00	29,200.00	29,200.00	58,400.00	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	876.00	46.08	0.00	0.00	0.00	46.08	46.08	
L018	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20	131.20	
L020	Unskilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	102.40	0.00	0.00	0.00	102.40	102.40	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,400.35	85,775.69	2,624.18	38,207.47	37,592.47	75,800.22	
	Components (%)								3.3%	93.2%	3.6%	49.1%	50.9%	100.0%		
	Unit Rate	m							60.17	1,724.95	85.78	907.64	942.36	1,850.00		

W3018 Barbed Wire Fence for the Engineer's Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	149.76	0.00	0.00	0.00	149.76	149.76	
L016	Skilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	428.40	0.00	0.00	0.00	428.40	428.40	
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	332.80	0.00	0.00	0.00	332.80	332.80	
W04001	Lumber	m3	0.84	0.0%	100.0%	0.0%	10.0%	90.0%	14,800.00	0.00	12,432.00	0.00	1,243.20	11,188.80	12,432.00	
W02062	Barbed Wire	m	1,060.80	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	2,652.00	0.00	928.20	1,723.80	2,652.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	191.92	287.87	239.89	479.79	479.79	3.0%
	Total									908.96	15,275.92	387.87	2,411.29	14,051.45	15,472.75	
	Components (%)									5.3%	92.7%	1.7%	14.6%	100.0%		
	Unit Rate	m								7.01	177.77	2.22	18.59	108.41	127.00	

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

W3019 Miscellaneous for Office & Living Quarter Maintenance

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Flashlight	each	1.00	0.0%	0.0%	100.0%	60.0%	40.0%	235.00	0.00	0.00	235.00	141.00	94.00	235.00	
	Broom	each	4.00	0.0%	0.0%	100.0%	10.0%	90.0%	142.00	0.00	0.00	568.00	56.80	511.20	568.00	
	Non Rod with saw	each	4.00	0.0%	0.0%	100.0%	30.0%	70.0%	380.00	0.00	0.00	1,440.00	432.00	1,008.00	1,440.00	
	Bucket	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	100.00	0.00	0.00	400.00	100.00	300.00	400.00	
	Dust Pan	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	116.00	0.00	0.00	460.00	116.00	345.00	460.00	
	Iron	each	1.00	0.0%	0.0%	100.0%	70.0%	30.0%	1,100.00	0.00	0.00	1,100.00	770.00	330.00	1,100.00	
	Iron Table	each	1.00	0.0%	0.0%	100.0%	30.0%	70.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Power Plug	each	2.00	0.0%	0.0%	100.0%	25.0%	75.0%	180.00	0.00	0.00	360.00	90.00	270.00	360.00	
	Iron Box	each	142.00	0.0%	100.0%	0.0%	15.0%	85.0%	55.00	0.00	7,280.00	0.00	1,092.00	8,168.00	7,280.00	4.0/month
	Laundry Detergent, 1.6kg	each	47.60	0.0%	100.0%	0.0%	25.0%	75.0%	148.00	0.00	7,044.80	0.00	1,761.20	5,283.60	7,044.80	1.7/month
	Bathroom Cleaner, 800ml	bottle	16.80	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	924.00	0.00	277.20	646.80	924.00	0.6/month
	Power Cleanser, 350g	bottle	25.20	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	579.60	0.00	173.88	405.72	579.60	0.6/month
	Electric Bulb, 50-100W	each	112.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	2,576.00	0.00	1,416.80	1,159.20	2,576.00	4.0/month
	Fluorescent Tube, 20W	each	84.00	0.0%	100.0%	0.0%	60.0%	40.0%	84.00	0.00	5,376.00	0.00	3,226.80	2,150.40	5,376.00	3.0/month
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	425.15	425.15	425.15	425.15	850.30	3.0%
	Total									0.00	24,205.55	4,998.15	10,076.83	19,117.07	29,193.70	
	Components (%)									0.0%	92.9%	17.1%	31.5%	65.5%	100.0%	
	Unit Rate	month								0.00	652.90	177.70	358.97	681.03	1,045.03	

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

W3020 Furniture and Fixtures for Field Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Executive Desk	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,300.00	0.00	8,600.00	0.00	1,280.00	7,310.00	8,600.00	
	Office Desk	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,000.00	0.00	40,000.00	0.00	6,0			

#3103 Equipment and Appliances for Field Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Typewriter	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	6,600.00	0.00	6,600.00	0.00	4,950.00	1,650.00	6,600.00	
	Scientific Calculator	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	940.00	0.00	9,400.00	0.00	6,880.00	2,520.00	9,400.00	
	Desk Type Calculator	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	570.00	0.00	570.00	0.00	399.00	171.00	570.00	
	Drafting Instrument	set	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	770.00	0.00	7,700.00	0.00	5,390.00	2,310.00	7,700.00	
	Photo Copier	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Desk Top PC	set	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	46,000.00	0.00	138,000.00	0.00	103,500.00	34,500.00	138,000.00	
	Color Laser Printer	set	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Magnetic Whiteboard	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,200.00	0.00	3,200.00	0.00	2,080.00	1,120.00	3,200.00	
	Camera	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,800.00	0.00	5,800.00	0.00	4,350.00	1,450.00	5,800.00	
	Electric Stand Fan	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	2,400.00	0.00	1,440.00	960.00	2,400.00	
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,100.00	0.00	4,200.00	0.00	2,100.00	2,100.00	4,200.00	
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	840.00	560.00	1,400.00	
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00	
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	30.0%	70.0%	490.00	0.00	980.00	0.00	294.00	686.00	980.00	
	Waste Paper Bin	each	9.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	900.00	0.00	135.00	765.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%		333.75	111.25	1,780.00	1,112.50	1,112.50	2,225.00	1.0%	
	Total								333.75	222,611.25	1,780.00	164,115.50	60,609.50	224,726.00		
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%		
	Unit Rate								334.16	222,883.66	1,782.18	164,316.33	60,683.67	225,000.00		

Miscellaneous covers the cost for delivery, installation, etc.

#3105 Furniture and Fixtures for Living Quarter

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Single Bed	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	2,500.00	0.00	7,500.00	0.00	1,550.00	6,240.00	7,800.00	
	Double Deck Bed	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,800.00	0.00	14,400.00	0.00	4,500.00	18,000.00	22,500.00	
	Night Table	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	35,100.00	0.00	5,265.00	29,835.00	35,100.00	
	Chairs	each	13.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,650.00	0.00	21,450.00	0.00	2,145.00	17,180.00	21,450.00	
	Wardrobe Cabinet	each	8.00	0.0%	100.0%	0.0%	15.0%	85.0%	3,800.00	0.00	30,400.00	0.00	4,320.00	24,480.00	28,800.00	
	Dining Table Set with 6 chairs	set	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	10,500.00	0.00	21,000.00	0.00	3,180.00	18,020.00	21,000.00	
	Lounge Sofa Set (3+1+1+Center Table)	set	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	12,400.00	0.00	12,400.00	0.00	1,850.00	10,550.00	12,400.00	
	Cupboard	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	5,400.00	0.00	5,400.00	0.00	810.00	4,590.00	5,400.00	
	Air Conditioning Unit, 1.0 HP Window Type	Unit	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,300.00	0.00	42,900.00	0.00	32,175.00	10,725.00	42,900.00	
	Venetian Blinds	m2	57.88	0.0%	100.0%	0.0%	60.0%	40.0%	293.00	0.00	16,898.78	0.00	10,139.27	6,759.51	16,898.78	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%		321.87	107.22	1,715.59	1,072.24	1,072.24	2,144.49	1.0%	
	Total								321.87	214,556.00	1,715.59	69,121.51	147,421.24	216,523.27		
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%		
	Unit Rate								322.28	214,958.91	1,718.81	69,301.41	147,698.69	217,000.00		

Miscellaneous covers the cost for delivery, installation, etc.

#3108 Equipment and Appliances for Living Quarter

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Mattress	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	1,050.00	0.00	13,650.00	0.00	2,067.00	11,713.00	13,780.00	
	Pillow	each	13.00	0.0%	100.0%	0.0%	10.0%	90.0%	230.00	0.00	2,990.00	0.00	299.00	2,691.00	2,990.00	
	Bed Sheets	each	52.00	0.0%	100.0%	0.0%	10.0%	90.0%	250.00	0.00	13,000.00	0.00	1,300.00	11,700.00	13,000.00	
	Pillow Cover	each	25.00	0.0%	100.0%	0.0%	10.0%	90.0%	130.00	0.00	3,250.00	0.00	338.00	3,042.00	3,380.00	
	Refrigerator, 10 cuft	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,800.00	0.00	14,800.00	0.00	11,175.00	3,725.00	14,900.00	
	Gas Stove, with 2 burners	Unit	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,000.00	0.00	2,000.00	0.00	1,300.00	700.00	2,000.00	
	Desk Lamp	each	13.00	0.0%	100.0%	0.0%	65.0%	35.0%	320.00	0.00	4,160.00	0.00	2,289.00	1,871.00	4,160.00	
	Electric Stand Fan	each	7.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	8,400.00	0.00	5,040.00	3,360.00	8,400.00	
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,100.00	0.00	4,200.00	0.00	2,100.00	2,100.00	4,200.00	
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	840.00	560.00	1,400.00	
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00	
	Tableware and Kitchenware	set	1.00	0.0%	100.0%	0.0%	30.0%	70.0%	11,000.00	0.00	11,000.00	0.00	3,300.00	7,700.00	11,000.00	
	Water Purifier/Filter System	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	3,300.00	0.00	3,300.00	0.00	2,475.00	825.00	3,300.00	
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	490.00	0.00	980.00	0.00	245.00	735.00	980.00	
	Waste Paper Bin	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	1,000.00	0.00	150.00	850.00	1,000.00	
	Shower Curtain	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	300.00	0.00	900.00	0.00	180.00	720.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%		130.11	43.37	893.92	433.70	433.70	867.40	1.0%	
	Total								130.11	85,783.37	893.92	34,865.70	52,711.70	87,607.40		
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%		
	Unit Rate								130.10	86,776.04	893.86	34,892.75	52,707.25	87,600.00		

Miscellaneous covers the cost for delivery, installation, etc.

#3111 Office & Living Quarter Supplies

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Stapler, No. 35	each	1.00	0.0%	100.0%	0.0%	80.0%	20.0%	700.00	0.00	700.00	0.00	350.00	350.00	700.00	
	Stapler, NO. 10	each	5.00	0.0%	100.0%	0.0%	60.0%	40.0%	300.00	0.00	1,500.00	0.00	900.00	600.00	1,500.00	
	Staple Remover	each	1.00	0.0%	100.0%	0.0%	40.0%	60.0%	15.00	0.00	15.00	0.00	9.00	6.00	15.00	
	Two-Hole Puncher	each	5.00	0.0%	100.0%	0.0%	60.0%	40.0%	130.00	0.00	650.00	0.00	468.00	312.00	650.00	
	Tape Dispenser	each	3.00	0.0%	100.0%	0.0%	60.0%	40.0%	270.00	0.00	810.00	0.00	486.00	324.00	810.00	
	Document Tray	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	100.00	0.00	300.00	0.00	60.00	240.00	300.00	
	Mechanical Pencil, 0.5mm	each	26.00	0.0%	100.0%	0.0%	50.0%	50.0%	35.00	0.00	910.00	0.00	494.00	416.00	910.00	
	Color Pencils, 12 colors	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	85.50	0.00	85.50	0.00	22.13	63.37	85.50	
	Pencil Sharpener, manually operated	each	1.00	0.0%	100.0%	0.0%	50.0%	50.0%	490.00	0.00	490.00	0.00	200.00	290.00	490.00	
	Triangular Ruler	set	10.00	0.0%	100.0%	0.0%	35.0%	65.0%	40.00	0.00	400.00	0.00	140.00	260.00	400.00	
	Triangular Scale, 300mm	each	10.00	0.0%	100.0%	0.0%	60.0%	40.								

W3112 Office & Living Quarter Consumables

Unit: 1.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Staple, No. 35	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.30	0.00	14.30	0.00	3.58	10.73	14.30	
	Staple, No. 10	box	3.00	0.0%	100.0%	0.0%	25.0%	75.0%	4.50	0.00	13.50	0.00	3.38	10.13	13.50	
	Cell Tape, 18mm x 50m	roll	1.40	0.0%	100.0%	0.0%	35.0%	65.0%	8.00	0.00	11.20	0.00	3.92	7.28	11.20	
	Masking Tape, 18mm x 25m	roll	4.00	0.0%	100.0%	0.0%	40.0%	60.0%	64.50	0.00	255.00	0.00	103.20	154.30	256.00	
	Masking Tape, 18mm x 25m	roll	0.50	0.0%	100.0%	0.0%	35.0%	65.0%	15.00	0.00	7.50	0.00	2.83	4.68	7.50	
	Pencil Lead, 0.5mm x 20 pcs	tube	11.00	0.0%	100.0%	0.0%	30.0%	70.0%	30.00	0.00	330.00	0.00	99.00	231.00	330.00	
	Pencil, 4 pcs	pack	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	6.00	0.00	18.00	0.00	2.70	15.30	18.00	
	Ball Point Pen, 3 pcs	pack	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	12.80	0.00	51.20	0.00	10.24	40.96	51.20	
	Marker Pen and/or Sign Pen	each	4.00	0.0%	100.0%	0.0%	25.0%	75.0%	28.00	0.00	104.00	0.00	26.00	78.00	104.00	
	Eraser, Rubber and/or sand	each	11.00	0.0%	100.0%	0.0%	20.0%	80.0%	27.00	0.00	297.00	0.00	59.40	237.60	297.00	
	Correction Fluid, 20ml	bottle	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	39.00	0.00	156.00	0.00	31.20	124.80	156.00	
	Document File, A4 size x 6cm	each	11.00	0.0%	100.0%	0.0%	25.0%	75.0%	300.00	0.00	3,000.00	0.00	825.00	2,475.00	3,000.00	
	Document Folder, A4 size	each	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	11.00	0.00	242.00	0.00	24.20	217.80	242.00	
	Document Fastener, Steel or plastic, 5 pcs	pack	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	9.50	0.00	38.00	0.00	3.80	34.20	38.00	
	Notebook, A5 size, 80 sheets	book	10.00	0.0%	100.0%	0.0%	10.0%	90.0%	26.50	0.00	265.00	0.00	26.50	238.50	265.00	
	Notebook, A4 size, 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	40.00	0.00	440.00	0.00	44.00	396.00	440.00	
	Notebook, A4 size, 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	36.00	0.00	396.00	0.00	36.00	360.00	396.00	
	Covr Paper, A4 size, 50 sheets	ream	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	138.00	0.00	552.00	0.00	55.20	496.80	552.00	
	Cross Section Paper, A4 size, 50 sheets	book	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	38.00	0.00	38.00	0.00	5.70	32.30	38.00	
	Tracing Paper, A1 size x 50m	roll	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	350.00	0.00	350.00	0.00	49.50	299.50	350.00	
	Carbon Paper, A4 size, 50 sheets	box	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	34.00	0.00	34.00	0.00	5.10	28.90	34.00	
	Typewriter Ribbon, Black/Red	each	1.00	0.0%	100.0%	0.0%	40.0%	60.0%	17.50	0.00	17.50	0.00	7.00	10.50	17.50	
	Envelope, Letter, long x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	19.50	0.00	429.00	0.00	42.90	386.10	429.00	
	Envelope, Letter, short x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	13.00	0.00	286.00	0.00	28.60	257.40	286.00	
	Envelope, A4 size	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	35.00	0.00	385.00	0.00	38.50	346.50	385.00	
	Dry Battery, AA x 4 pcs	pack	6.00	0.0%	100.0%	0.0%	30.0%	70.0%	32.00	0.00	192.00	0.00	67.80	134.40	192.00	
	Paper Clip, 50z	box	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	8.25	0.00	12.50	0.00	1.25	11.25	12.50	
	Binder Clip, 12 x 3/4"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	11.00	0.00	22.00	0.00	4.40	17.60	22.00	
	Binder Clip, 12 x 1"	box	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	17.50	0.00	52.50	0.00	10.50	42.00	52.50	
	Binder Clip, 12 x 1 1/2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	23.50	0.00	47.00	0.00	9.40	37.60	47.00	
	Binder Clip, 12 x 2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	50.00	0.00	100.00	0.00	20.00	80.00	100.00	
	Glue, Tube 30z	each	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	2.80	0.00	5.00	0.00	0.60	4.50	5.00	
	Floppy Disk, 1.44MB 2HD 3.5" x 10 pcs	box	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.00	0.00	28.00	0.00	7.00	21.00	28.00	
	CD Rewritable, 640MB	each	3.00	0.0%	100.0%	0.0%	40.0%	60.0%	41.00	0.00	123.00	0.00	46.20	73.80	123.00	
	Printer Cartridge	each	0.33	0.0%	100.0%	0.0%	65.0%	35.0%	7,500.00	0.00	2,475.00	0.00	1,608.75	866.25	2,475.00	
	Toner	tube	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,800.00	0.00	3,600.00	0.00	2,160.00	1,440.00	3,600.00	
	Roller Paper, 9 rolls	roll	6.00	0.0%	100.0%	0.0%	10.0%	90.0%	90.00	0.00	450.00	0.00	45.00	405.00	450.00	
	Toilet Deodorant	each	6.00	0.0%	100.0%	0.0%	15.0%	85.0%	24.00	0.00	144.00	0.00	21.60	122.40	144.00	
	Insect Sprav, 350z	bottle	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	140.00	0.00	420.00	0.00	63.00	357.00	420.00	
	Soap, 135z	each	11.00	0.0%	100.0%	0.0%	15.0%	85.0%	21.00	0.00	231.00	0.00	34.65	196.35	231.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%		47.75	15.92	254.84	143.24	173.07	318.30	2.0%
	Total									47.75	15.92	254.84	143.24	173.07	318.30	
	Components (%)									0.3%	98.1%	1.6%	35.6%	64.4%	100.0%	
	Unit Rate									47.65	15,898.24	254.12	5,765.00	10,435.00	16,200.00	

Miscellaneous covers the cost for delivery, other items which may be required by condition, etc.

W3501 Relocation of Existing Lighting Poles

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0113	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.54	27.7%	14.6%	57.7%	40.7%	59.3%	898.00	133.84	70.60	278.39	197.05	286.79	483.84	
W0106	Excavation, Backhoe 0.6m3 + Manpower	m3	2.39	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	35.66	9.43	97.83	69.39	93.55	142.92	
W0225	Disposal of Demolished Debris	m3	0.54	18.6%	12.9%	76.6%	46.8%	53.2%	138.00	12.28	9.59	52.65	34.84	74.52		
W0133	Backfill C	m3	2.93	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	49.33	50.18	325.26	209.81	215.34	424.85	
W0106	Excavation, Backhoe 0.6m3	m3	3.16	4.6%	8.4%	87.1%	52.9%	47.1%	40.90	5.80	10.22	112.22	68.13	60.71	128.84	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.52	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	3.99	7.14	37.27	24.69	23.62	48.41	
W0133	Backfill C	m3	2.83	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	44.33	45.04	291.99	188.05	193.29	381.35	
W0161	Gravel Foundation Fill	m3	0.05	25.0%	13.1%	61.9%	38.9%	61.1%	395.00	4.94	12.23	7.89	12.08	19.75		
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.55	2.5%	81.0%	16.5%	68.8%	43.2%	1,800.00	21.95	712.62	145.44	499.84	380.46	880.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	120.71	0.24	2.17	1.33	121.79	123.12	
W0236	Concrete Curbing (plain concrete)	m3	0.54	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.45	0.42	0.99	0.78	4.09	4.87	
W0240	Formwork (plain concrete H/cm)	m2	3.60	59.3%	40.0%	0.8%	2.0%	97.1%	224.00	477.88	322.20	6.32	23.64	782.66	806.40	
L002	Foreman	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	218.88	0.00	0.00	0.00	218.88		
L012	Electrician	md	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	188.76	0.00	0.00	0.00	188.76		
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.91	15.6%	9.3%	75.2%	46.9%	83.1%	488.00	143.88	88.33	698.05	435.76	492.50	928.26	
Q0405-013	Lift Car, 12-13m	hr	0.95	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	608.23	514.77	1,121.00	
	Miscellaneous	LS	1.00	10.2%	30.0%	60.0%	50.0%	50.0%		49.73	149.18	293.36	248.63	422.63	497.63	8.0%
	Total									1,833.12	1,509.81	3,370.09	2,605.39	4,107.65	6,713.00	
	Components (%)									27.3%	22.5%	50.2%	38.8%	61.2%	100.0%	
	Unit Rate									1,832.30	1,509.13	3,368.57	2,604.21	4,105.78	6,710.00	

Miscellaneous covers the costs for cable connection, power receiving, testing, etc.

W3502 Relocation of Underground Conduit

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
W0106	Excavation, Backhoe 0.6m3 + Manpower	m3	72.00	24											

#3504 Relocation of Sewer Pipe

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	22.87	24.6%	6.6%	68.5%	41.6%	58.4%	69.80	341.20	90.28	936.15	568.34	789.29	1,367.03	
W0133	Backfill C	m ³	22.87	11.6%	11.8%	78.6%	49.3%	50.7%	148.00	385.51	391.66	2,538.99	1,805.35	1,880.80	3,316.15	
W0105	Excavation, Backhoe 0.61m ³	m ³	22.87	4.8%	8.4%	87.1%	52.9%	47.1%	40.80	42.09	78.87	814.72	494.62	440.76	935.38	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	5.02	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	200.32	6,504.26	1,327.43	4,559.45	3,472.54	8,022.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m ³	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,099.76	2.20	19.80	12.10	1,109.66	1,121.76	
W0236	Concrete Curing (plain concrete)	m ³	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	31.48	3.87	9.03	7.10	37.28	44.38	
W0162	Selected Sand Fill	m ³	8.86	34.3%	15.1%	50.6%	33.0%	67.0%	280.00	850.14	375.75	1,254.91	819.07	1,661.73	2,460.80	
W0133	Backfill C	m ³	4.53	11.6%	11.8%	78.6%	49.3%	50.7%	145.00	76.36	77.58	502.91	323.92	332.93	656.85	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	18.34	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	140.81	251.96	1,314.68	877.92	829.53	1,707.45	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), Fabrication & GI	m	10.00	10.3%	68.3%	21.3%	63.5%	46.5%	1,110.00	1,148.77	7,883.15	2,368.08	5,942.19	5,157.81	11,100.00	
W0342	Precast Concrete Pipe Laying & GI	m	10.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	1,132.54	201.69	201.69	724.95	1,735.05	2,460.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total								5,448.98	16,560.96	12,212.46	15,955.01	17,257.39	33,222.40		
	Components (%)								16.4%	46.8%	36.8%	48.1%	51.9%	100.0%		
	Unit Rate	m							544.898	1,656.096	1,221.246	1,595.501	1,725.739	3,322.240		

#3511 Repair & Maintenance of Existing Access Road

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
W0122	Crushed Aggregate, transported	m ³	19.80	9.2%	15.6%	75.2%	47.0%	53.0%	261.00	476.61	803.21	3,887.08	2,428.26	2,738.54	5,187.80	Loss 32.0%
R0307-000	Plate Compactor	dav	0.85	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	117.35	545.65	372.62	290.38	683.00	
	Miscellaneous	LS	1.80	20.0%	40.0%	40.0%	40.0%	60.0%	102.88	102.88	325.96	325.96	486.94	814.90	12.00	
	Total								1,599.59	1,245.52	4,759.59	3,127.84	4,477.66	7,605.70		
	Components (%)								21.0%	16.4%	62.6%	41.1%	58.9%	100.0%		
	Unit Rate	m ²							16.001	12.455	47.595	31.278	44.776	76.057		

Miscellaneous covers the cost for maintenance cleaning, falseworks, etc.
Repair Thickness = 0.150 m

#4101 Environmental Compliance

Unit: 1.00 km

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
W0120	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
	Compensation	LS	1.00	50.0%	50.0%	0.0%	0.0%	100.0%	95,970.00	47,985.00	47,985.00	0.00	0.00	95,970.00	95,970.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%	102.88	390.02	325.96	780.05	780.05	1,170.07	1,950.12	2.0%
	Total								49,911.02	48,765.05	780.05	780.05	98,876.07	99,456.12		
	Components (%)								50.2%	49.0%	0.8%	0.8%	99.2%	100.0%		
	Unit Rate	km							49,911.02	48,765.05	780.05	780.05	98,876.07	99,456.12		

Miscellaneous covers the costs for minor repair works, vehicle depreciation, contingency, etc.
Compensation = affected household x number of persons x minimum wage x affected duration
Affected household = 20 households
Number of person per household = 3 persons/household
Minimum wage = 228.50 PP/day
Affected duration = 7 days

#4111 Health and Safety Requirements

Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Health and safety Requirements	dav	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	680.00	68.00	377.30	240.10	274.40	411.60	686.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								68.00	377.30	240.10	274.40	411.60	686.00		
	Components (%)								10.0%	55.0%	35.0%	40.0%	60.0%	100.0%		
	Unit Rate	day							68.00	377.30	240.10	274.40	411.60	686.00		

Health and Safety Requirements = Minimum wage x a
Minimum wage = 228.50 PP/day
a: Coefficient = 3.00

#4121 Overseas Development Assistance (ODA) Recognition Plate

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	4.70	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	70.12	18.55	192.39	116.80	164.26	281.06	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.60	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.61	8.24	43.01	28.72	27.14	55.86	
W0133	Backfill C	m ³	4.10	11.6%	11.8%	78.6%	49.3%	50.7%	145.00	89.11	70.21	455.17	293.19	301.32	694.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	0.61	2.5%	81.0%	16.5%	56.8%	43.2%	1,600.00	24.34	790.56	161.30	554.04	421.96	976.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m ³	0.80	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	134.12	0.27	2.41	1.46	135.32	136.80	
W0236	Concrete Curing (plain concrete)	m ³	0.60	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.84	0.47	1.10	0.87	5.41	5.41	
W0240	Formwork (plain concrete H<4m)	m ²	4.80	59.3%	40.0%	0.0%	2.9%	97.1%	224.00	637.17	428.60	8.43	31.39	1,043.81	1,075.20	
W07201	Traffic Sign Board (aluminum)	m ²	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,281.80	28,699.20	81,972.00	
W08708	Steel Gas Pipe, ø 125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	5,833.60	0.00	3,890.16	2,253.44	5,833.60	
L020	Foreman	md	0.11	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
W0120	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	118.40	0.00	0.00	0.00	118.40	118.40	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	60.0%	102.88	545.47	1,090.95	1,090.95	1,369.68	1,369.68	2,727.37	3.0%
	Total								1,670.54	90,014.25	1,954.77	59,052.11	34,587.45	93,639.66		
	Components (%)								1.8%	96.1%	2.1%	63.1%	36.9%	100.0%		
	Unit Rate	each							1,669.83	89,976.23	1,953.94	59,027.16	34,572.84	93,600.00		

Miscellaneous covers the costs for fixtures, paints, etc.