

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%	1.09	
W0002	Tree Cutting	m2	92.6%	0.7%	6.7%	3.7%	96.3%	0.91	
W0003	Grubbing	m2	4.0%	7.9%	88.1%	53.0%	47.0%	24.90	
W0004	Burning	m2	100.0%	0.0%	0.0%	0.0%	100.0%	1.90	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	12.5%	7.5%	80.0%	48.2%	51.8%	1,280.00	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	
W0014	Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)	m3	46.2%	11.0%	42.8%	30.3%	69.7%	1,680.00	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	3.4%	6.5%	90.1%	53.2%	46.8%	56.50	
W0016	Excavation of Gravel Pavement	m3	4.4%	8.4%	87.2%	52.9%	47.1%	10.30	
W0025	Disposal of Demolished Debris	m3	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	
W0101	Excavation, Bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	25.30	
W0102	Excavation, Backhoe 0.35m3	m3	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	
W0105	Excavation, Backhoe 0.61m3	m3	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	
W0107	Excavation, Clamshell + Backhoe	m3	7.9%	8.1%	84.1%	52.8%	47.2%	91.50	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	3.4%	6.5%	90.1%	53.2%	46.8%	185.00	
W0109	Excavation, Manpower	m3	100.0%	0.0%	0.0%	0.0%	100.0%	132.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	
W0115	Disposal of Surplus Soil (manpower loading)	m3	45.7%	10.8%	43.5%	30.6%	69.4%	103.00	
W0121	Borrow Soil, transported	m3	6.9%	22.1%	71.0%	48.5%	51.5%	221.00	
W0122	Crushed Aggregate, transported	m3	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	
W0123	Excavated Soil, transported	m3	7.5%	13.7%	78.8%	51.7%	48.3%	69.70	
W0128	Selected Sand, transported	m3	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	
W0129	Gravel/Stone, transported	m3	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	
W0131	Backfill A	m3	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	
W0132	Backfill B	m3	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	
W0133	Backfill C	m3	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	
W0134	Backfill D	m3	13.3%	12.6%	74.1%	48.5%	51.5%	200.00	
W0135	Backfill, Manpower + Compactor	m3	78.1%	5.6%	16.3%	12.5%	87.5%	76.40	
W0141	Filling & Laying, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	
W0142	Filling & Laying, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	29.50	
W0145	Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	
W0146	Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	26.10	
W0147	Compaction, tire roller 8~20t	m3	4.3%	8.0%	87.7%	52.7%	47.3%	10.40	
W0148	Compaction, tamper	m3	12.4%	17.3%	70.3%	49.4%	50.6%	76.10	
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	
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%	85.1%	51.1%	48.9%	39.60	
W0152	Slope Formation by Backhoe	m2	9.9%	7.9%	82.2%	49.8%	50.2%	48.00	
W0161	Gravel Foundation Fill	m3	24.8%	13.1%	62.1%	39.0%	61.0%	390.00	
W0162	Selected Sand Fill	m3	34.0%	15.2%	50.7%	33.1%	66.9%	276.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	2.7%	78.1%	19.1%	56.4%	43.6%	1,510.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	3.0%	75.5%	21.5%	56.1%	43.9%	1,400.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.4%	80.9%	16.7%	56.9%	43.1%	1,700.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.4%	81.5%	16.1%	56.9%	43.1%	1,720.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	2.3%	81.4%	16.3%	57.6%	42.4%	1,780.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.2%	82.7%	15.1%	57.8%	42.2%	1,860.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.9%	85.0%	13.1%	58.2%	41.8%	2,150.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.8%	77.6%	19.6%	57.1%	42.9%	1,530.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	
W0221	Mortar (1:3)	m3	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	
W0222	Mortar (1:2)	m3	1.5%	94.1%	4.5%	58.2%	41.8%	2,340.00	
W0225	Grout (non-shrink)	m3	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.1%	0.2%	70.7%	37.9%	62.1%	508.00	
W0234	Concrete Pouring by Truck Crane	m3	30.6%	5.8%	63.6%	38.4%	61.6%	281.00	
W0235	Concrete Pouring by Manpower for small	m3	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	
W0240	Formwork (plain concrete H<4m)	m2	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	47.1%	33.6%	19.3%	13.6%	86.4%	283.00	
W0243	Formwork (lean concrete)	m2	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	
W0244	Formwork for Bridge Superstructures	m2	57.7%	26.8%	15.5%	11.1%	88.9%	354.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	62.6%	21.6%	15.8%	11.4%	88.6%	468.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.5%	77.9%	7.7%	54.5%	45.5%	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 φ460 (18")	m	9.7%	65.9%	24.4%	53.5%	46.5%	533.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ610 (24")	m	9.9%	66.2%	23.9%	53.4%	46.6%	878.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ760 (30")	m	10.0%	66.4%	23.6%	53.4%	46.6%	1,310.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ910 (36")	m	10.5%	66.9%	22.7%	53.4%	46.6%	2,000.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1070 (42")	m	10.5%	66.9%	22.6%	53.4%	46.6%	2,620.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1220 (48")	m	10.5%	66.9%	22.7%	53.4%	46.6%	3,300.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1520 (60")	m	10.5%	66.9%	22.6%	53.4%	46.6%	4,930.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ460 (18")	m	10.4%	68.1%	21.5%	53.6%	46.4%	585.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ610 (24")	m	10.3%	68.1%	21.6%	53.6%	46.4%	960.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ760 (30")	m	10.2%	68.0%	21.8%	53.6%	46.4%	1,350.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ910 (36")	m	10.8%	68.4%	20.8%	53.5%	46.5%	2,160.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1070 (42")	m	10.7%	68.4%	20.9%	53.5%	46.5%	2,720.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1220 (48")	m	10.7%	68.3%	20.9%	53.5%	46.5%	3,520.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1520 (60")	m	10.8%	68.4%	20.8%	53.5%	46.5%	5,240.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ460 (18")	m	10.4%	68.1%	21.6%	53.6%	46.4%	755.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610 (24")	m	10.2%	68.0%	21.8%	53.6%	46.4%	1,120.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ760 (30")	m	10.3%	68.1%	21.6%	53.6%	46.4%	1,660.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ910 (36")	m	10.8%	68.1%	21.1%	53.5%	46.5%	2,660.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42")	m	11.2%	68.4%	20.4%	53.4%	46.6%	3,990.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48")	m	10.7%	68.1%	21.2%	53.5%	46.5%	4,350.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1520 (60")	m	11.1%	68.2%	20.6%	53.4%	46.6%	7,540.00	
W0341	Precast Concrete Pipe Laying φ460 (18")	m	46.9%	8.1%	45.0%	28.9%	71.1%	200.00	
W0342	Precast Concrete Pipe Laying φ610 (24")	m	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	
W0343	Precast Concrete Pipe Laying φ760 (30")	m	46.9%	8.1%	45.0%	29.0%	71.0%	301.00	
W0344	Precast Concrete Pipe Laying φ910 (36")	m	31.0%	8.6%	60.4%	37.7%	62.3%	513.00	
W0345	Precast Concrete Pipe Laying φ1070 (42")	m	31.4%	8.6%	60.0%	37.4%	62.6%	590.00	
W0346	Precast Concrete Pipe Laying φ1220 (48")	m	31.2%	8.6%	60.2%	37.6%	62.4%	661.00	
W0347	Precast Concrete Pipe Laying φ1520 (60")	m	26.8%	8.5%	64.7%	40.0%	60.0%	934.00	
W0351	Precast Concrete Pipe Removal φ460 (18")	m	46.3%	5.9%	47.8%	29.3%	70.7%	61.50	
W0352	Precast Concrete Pipe Removal φ610 (24")	m	44.9%	6.1%	49.1%	30.1%	69.9%	75.30	
W0353	Precast Concrete Pipe Removal φ760 (30")	m	46.2%	5.9%	47.9%	29.4%	70.6%	92.80	
W0354	Precast Concrete Pipe Removal φ910 (36")	m	30.7%	6.4%	62.8%	37.9%	62.1%	158.00	
W0355	Precast Concrete Pipe Removal φ1070 (42")	m	31.2%	6.4%	62.4%	37.6%	62.4%	182.00	
W0356	Precast Concrete Pipe Removal φ1220 (48")	m	30.9%	6.4%	62.7%	37.8%	62.2%	204.00	
W0357	Precast Concrete Pipe Removal φ1520 (60")	m	26.7%	6.3%	67.0%	40.1%	59.9%	288.00	
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	199.00	
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	255.00	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	169.00	
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	
W0411	Temporary Struts & Supports Installation	t	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	
W0412	Temporary Struts & Supports Removal	t	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	
W0413	Temporary Struts & Tie Rod Installation	t	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	
W0414	Temporary Struts & Supports Removal	t	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	
W0415	Temporary Deck Plate Installation	m2	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	
W0416	Temporary Deck Plate Removal	m2	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	
W0417	Temporary Deck Plate Support Beam Installation	t	36.7%	9.5%	53.8%	35.2%	64.8%	1,240.00	
W0418	Temporary Deck Plate Support Beam Removal	t	38.0%	8.2%	53.8%	34.3%	65.7%	740.00	
W0421	Temporary Access Bridge Superstructure Installation	t	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	
W0422	Temporary Access Bridge Superstructure Removal	t	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	
W0423	Temporary Access Bridge Railing Installation	m	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	
W0424	Temporary Access Bridge Railing Removal	m	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	
W0431	Temporary Drain Pump Installation & Removal	set	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	
W0432	Temporary Drain Pump Operation	day	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	
W0441	Temporary Frame Support Installation & Removal	m3	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	

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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	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	
W0501	Ground Assembly of Structural Steel Bridge	t	11.4%	3.1%	85.5%	48.2%	51.8%	1,260.00	
W0502	Erection of Structural Steel Bridge Members	t	10.8%	4.8%	84.4%	48.4%	51.6%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.4%	93.3%	2.3%	66.1%	33.9%	43.60	
W0504	Finish Painting of Structural Steel Bridge	m ²	42.1%	48.8%	9.1%	36.3%	63.7%	132.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.5%	91.2%	4.3%	48.3%	51.7%	16,000.00	
W0506	Site Welding for Steel Bridge	m	23.4%	34.6%	42.0%	44.5%	55.5%	3,120.00	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	76.3%	11.8%	11.8%	13.0%	87.0%	502.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	493.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	5.9%	93.9%	0.2%	65.0%	35.0%	934.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.2%	91.6%	0.2%	62.8%	37.2%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	96.0%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.6%	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%	93.5%	1.7%	70.7%	29.3%	2,060.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	6.0%	74.0%	20.0%	55.3%	44.7%	2,140.00	
W0551	Precast PC Girder Erection (W < 12.5t)	t	25.1%	3.9%	70.9%	41.1%	58.9%	218.00	
W0552	Precast PC Girder Erection (12.5 ≤ W < 15.0t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	230.00	
W0553	Precast PC Girder Erection (15.0 ≤ W < 17.5t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	218.00	
W0554	Precast PC Girder Erection (17.5 ≤ W < 20t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	198.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	
W0557	Precast PC Girder Erection (60.0 ≤ W < 75.0 t)	t	6.2%	1.8%	92.0%	51.1%	48.9%	423.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	5.7%	1.8%	92.5%	51.4%	48.6%	430.00	
W0601	Pier Protection Concrete Block Type A Production & Laying	each	14.2%	62.0%	23.8%	50.3%	49.7%	3,080.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.6%	61.6%	23.8%	50.1%	49.9%	2,940.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	14.6%	61.4%	24.0%	50.0%	50.0%	2,890.00	
W0611	Stone Laying	m ³	9.9%	14.3%	75.8%	47.5%	52.5%	378.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m ³	34.3%	17.8%	47.9%	35.4%	64.6%	426.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.4%	44.6%	31.0%	39.2%	60.8%	7,840.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m ³	29.2%	30.0%	40.8%	37.5%	62.5%	172.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.6%	29.2%	46.2%	39.9%	60.1%	8,330.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m ³	28.0%	28.7%	43.3%	38.0%	62.0%	179.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m ³	21.4%	40.6%	38.0%	41.2%	58.8%	93.90	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m ³	29.7%	28.8%	41.5%	37.3%	62.7%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.4%	17.7%	58.9%	41.0%	59.0%	335,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,080.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	4,980.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	114.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.5%	84.4%	4.1%	60.4%	39.6%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	0.9%	92.4%	6.7%	71.0%	29.0%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.3%	87.5%	6.2%	68.3%	31.7%	9,560.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.2%	84.7%	4.1%	60.6%	39.4%	152,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.0%	86.7%	8.3%	67.1%	32.9%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.1%	23.4%	36.5%	34.6%	65.4%	823.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	

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	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	90.2%	8.5%	62.8%	37.2%	117.00	
W0702	Precast Concrete Cover (580x480x70),	each	89.3%	1.1%	9.6%	5.4%	94.6%	10.30	
W0703	Precast Concrete Cover (680x580x75), furnish	each	4.2%	90.2%	5.6%	60.7%	39.3%	190.00	
W0704	Precast Concrete Cover (680x580x75),	each	89.3%	0.0%	10.7%	5.4%	94.6%	10.30	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.0%	86.1%	5.9%	63.0%	37.0%	58.40	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	8.5%	85.5%	5.9%	62.5%	37.5%	54.40	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	38.3%	55.0%	6.7%	39.0%	61.0%	30.30	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	9.0%	90.1%	1.0%	63.2%	36.8%	1,140.00	
W0731	Rubble Concrete	m3	6.2%	50.4%	43.4%	52.5%	47.5%	947.00	
W0732	Granular Bedding for Rubble Concrete	m3	27.4%	12.5%	60.1%	37.5%	62.5%	399.00	
W0733	Washout Prevention Filter, furnish and laying	m2	2.1%	96.2%	1.8%	58.6%	41.4%	91.70	
W0741	Grouted Ribrap Class A	m3	15.6%	63.8%	20.6%	48.0%	52.0%	734.00	
W0742	Stone Masonry, laid	m3	14.3%	70.1%	15.6%	49.3%	50.7%	1,000.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.2%	50.0%	1.8%	19.0%	81.0%	39.00	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	26.4%	12.7%	60.9%	38.7%	61.3%	54.00	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	16.6%	68.8%	7.2%	46.1%	46.5%	419.00	
W0871	Guardrail Type A, furnish	m	8.0%	78.8%	13.2%	59.1%	40.9%	902.00	
W0872	Guardrail Type B, furnish	m	9.2%	76.5%	14.3%	58.1%	41.9%	707.00	
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	7.1%	81.7%	11.3%	60.2%	39.8%	876.00	
W0911	Digging Out Tree, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	18.60	
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	35.70	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	63.00	
W0921	Tree Haulage, Low Tree H≤1.5m	each	13.5%	19.3%	67.2%	49.0%	51.0%	27.00	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	49.80	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	87.60	
W0931	Tree Planting, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	9.11	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	27.20	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	113.00	
W0951	Precast Curbstone for Planter Square, Furnish	m	12.9%	67.6%	19.5%	50.0%	50.0%	47.80	
W0952	Precast Curbstone for Planter Square, Laying	m	96.2%	3.1%	0.8%	1.9%	98.1%	34.40	
W0956	Treading Prevention Board for Planter Square, Furnish	m2	13.5%	71.3%	15.3%	51.8%	48.2%	249.00	
W0957	Treading Prevention Board for Planter Square, Laying	m2	93.5%	4.6%	2.0%	3.3%	96.7%	32.20	
W1001	Underground Cable Duct	m	13.0%	67.5%	19.5%	47.2%	52.8%	366.00	
W1011	Electric Cable Laying	m	21.8%	76.3%	1.9%	42.8%	57.2%	83.80	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	6.8%	68.7%	24.5%	59.6%	40.4%	22,500.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.1%	67.9%	25.0%	59.3%	40.7%	21,400.00	
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	12.2%	52.9%	34.9%	53.7%	46.3%	9,440.00	
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	12.6%	51.7%	35.7%	53.2%	46.8%	9,080.00	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	12.8%	51.0%	36.1%	53.0%	47.0%	8,920.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.4%	60.1%	29.6%	56.5%	43.5%	16,700.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.1%	60.8%	29.1%	56.8%	43.2%	17,300.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	24.9%	8.0%	67.1%	41.5%	58.5%	86,600.00	
W2002	Transportation of Disassembled Equipment	LS	4.4%	10.3%	85.3%	53.0%	47.0%	310,000.00	
W2003	Other Equipment & Material Haulage	LS	9.0%	15.4%	75.6%	51.1%	48.9%	195,000.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	1,500,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.5%	8.2%	90.3%	54.4%	45.6%	2.53	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.5%	84.4%	3.0%	36.5%	63.5%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.6%	83.1%	3.4%	37.4%	62.6%	305.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.6%	66.3%	26.1%	60.1%	39.9%	39,600.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	8.2%	79.6%	12.2%	54.4%	45.6%	160.00	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	2.5%	92.9%	4.6%	62.1%	37.9%	628.00	

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%	624.00	
W3007	Plain Cement Floor Finish	m2	7.6%	85.6%	6.9%	54.3%	45.7%	63.20	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.0%	85.1%	6.8%	54.1%	45.9%	63.50	
W3009	Unglazed Tile Finish (8" x 8")	m2	1.6%	97.9%	0.5%	60.2%	39.8%	589.00	
W3010	Gypsum Board Ceiling	m2	1.6%	97.9%	0.5%	60.2%	39.8%	351.00	
W3011	Plain Cement Mortar Wall Finish	m2	8.9%	84.3%	6.8%	53.5%	46.5%	64.20	
W3012	Steel Fixed Louver	each	14.8%	35.9%	49.2%	49.3%	50.7%	7,120.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L. S.	5.2%	90.7%	4.1%	41.3%	58.7%	355,000.00	
W3014	Lighting and Powers	L. S.	5.0%	93.5%	1.5%	56.6%	43.4%	138,000.00	
W3015	Sewer Water Line	L. S.	4.4%	94.9%	0.7%	49.8%	50.2%	115,000.00	
W3016	Septic Tank	each	14.3%	63.6%	22.0%	44.2%	55.8%	20,700.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.2%	93.2%	3.6%	49.1%	50.9%	1,840.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.4%	92.8%	1.7%	14.7%	85.3%	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%	85.9%	14.1%	34.4%	65.6%	1,010.00	
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	26.9%	22.6%	50.5%	39.0%	61.0%	6,700.00	
W3502	Relocation of Underground Conduit	m	18.0%	24.7%	57.3%	44.7%	55.3%	443.00	
W3503	Relocation of Watermain	m	5.1%	77.1%	17.8%	55.8%	44.2%	1,460.00	
W3504	Relocation of Sewer Pipe	m	16.1%	46.7%	37.2%	48.2%	51.8%	3,340.00	
W3511	Repair & Maintenance of Existing Access Road	m2	20.8%	16.4%	62.8%	41.2%	58.8%	75.20	
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%	97,700.00	
W4111	Health and Safety Requirements	day	10.0%	55.0%	35.0%	40.0%	60.0%	674.00	
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%	2,600,000.00	

6. Breakdown of Basic Work Cost

Currency Exchange Rate : 1 US\$ = 52.28 PP
= 120.12 yen

W0001 Grass Cutting Unit: 1,000.00 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	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	215.08	0.00	0.00	0.00	215.08	215.08
L019	Skilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	685.10	0.00	0.00	0.00	685.10	685.10
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	30.0%	50.0%		0.00	0.00	89.49	49.73	49.72	99.44
	Total									994.38	9.94	89.49	49.73	1,044.10	1,093.82
	Components (%)									90.9%	0.9%	8.2%	4.5%	95.5%	100.0%
	Unit Rate	m ²								0.99	0.01	0.09	0.05	1.04	1.09

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

W0002 Tree Cutting Unit: 1,000.00 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	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	181.12	0.00	0.00	0.00	181.12	181.12
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	463.45	0.00	0.00	0.00	463.45	463.45
L020	Unskilled Labor	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	200.96	0.00	0.00	0.00	200.96	200.96
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	6.76	60.88	33.82	87.35	87.64
	Total									845.53	6.76	60.88	33.82	913.17	913.17
	Components (%)									92.6%	0.7%	5.7%	3.7%	96.3%	100.0%
	Unit Rate	m ²								0.85	0.01	0.06	0.03	0.85	0.91

Miscellaneous covers the cost for chain saw, etc.

W0003 Grubbing Unit: 1,000.00 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	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	96.22	0.00	0.00	0.00	96.22	96.22
L020	Unskilled Labor	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	53.38	0.00	0.00	0.00	53.38	53.38
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	15,413.76	9,258.48	8,021.54	17,280.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.30	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	329.21	628.49	6,524.30	3,956.58	3,525.62	7,482.00
	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									997.21	1,976.33	21,938.06	13,214.84	11,696.76	24,911.60
	Components (%)									4.0%	7.9%	88.1%	53.0%	47.0%	100.0%
	Unit Rate	m ²								1.00	1.98	21.93	13.21	11.69	24.90

W0004 Burning Unit: 1,000.00 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	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	367.50	0.00	0.00	0.00	367.50	367.50
L020	Unskilled Labor	md	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,139.82	0.00	0.00	0.00	1,139.82	1,139.82
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		395.64	0.00	0.00	0.00	395.64	395.64
	Total									1,903.36	0.00	0.00	0.00	1,903.36	1,903.36
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	Unit Rate	m ²								1.90	0.00	0.00	0.00	1.90	1.90

W0011 Demolition by Crawler Drill (Lightly Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	351.20	0.00	0.00	0.00	351.20	351.20
R0202-000	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	313.00	0.00	0.00	1,295.00	703.04	591.96	1,295.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.50	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	191.40	365.40	3,793.20	2,300.22	2,049.78	4,350.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	30.90	30.90	23.99	27.81	61.79
	Total									325.80	396.30	5,119.10	3,037.24	3,205.75	6,240.95
	Components (%)									11.6%	6.3%	82.0%	48.7%	51.3%	100.0%
	Unit Rate	m ³								72.35	39.62	511.83	303.68	320.32	624.00

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

W0012 Demolition by Crawler Drill (Heavily Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	533.80	0.00	0.00	0.00	533.80	533.80
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	318.00	0.00	0.00	2,538.20	1,377.95	1,160.25	2,538.20
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.90	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	375.14	716.18	7,454.67	4,508.45	4,017.58	6,240.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	245.75	245.75	270.33	221.18	491.50
	Total									1,598.54	967.94	10,218.62	6,158.71	6,229.39	12,719.10
	Components (%)									12.5%	7.5%	80.0%	48.2%	51.8%	100.0%
	Unit Rate	m ³								160.12	96.35	1,023.53	616.68	623.32	1,280.00

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

W0013 Demolition by Pneumatic Handheld Breaker (Lightly Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,287.40	0.00	0.00	0.00	1,287.40	1,287.40
R0204-020	Pneumatic Breaker, Handhold	day	4.20	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 (3.6-4.5m ³ /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	2,511.92	1,877.08	4,389.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	87.43	87.43	96.18	78.69	174.86
	Total									2,434.80	1,307.57	5,175.69	3,650.20	5,287.86	8,918.06
	Components (%)									27.3%	14.7%	58.0%	40.9%	59.1%	100.0%
	Unit Rate	m ³								243.33	130.79	517.68	365.10	528.90	892.00

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

W0014 Demolition by Pneumatic Handheld Breaker (Heavily Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,471.60	0.00	0.00	0.00	1,471.60	1,471.60
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,786.20	0.00	0.00	0.00	3,786.20	3,786.20
L020	Unskilled Labor	md	6.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,166.80	0.00	0.00	0.00	2,166.80	2,166.80
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	1,211.50	2,650.60
R1002-160	Air Compressor 125-160 cfm (3.6-4.5m ³ /min)	day	2.90	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,684.96	4,376.04	3,468.84	2,592.16	6,061.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	164.88	164.88	181.37	146.39	329.76
	Total									7,776.40					

#0106 Excavation of Gravel Pavement

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)
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	0.59	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	45.17	86.23	895.20	542.83	483.75	1,026.60	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								45.17	86.23	895.20	542.83	483.75	1,026.60		
	Components (%)								4.4%	8.4%	87.2%	52.9%	47.1%	100.0%		
	Unit Rate	m ³							0.45	0.57	6.38	3.45	4.83	10.39		

$Q = 3600 \cdot q \cdot f \cdot E / C_m$
 Q : Excavation capacity per hour = 42.48 m³/hr
 q : Excavation Volume per hour = 0.59 m³/hr
 q : Standard capacity per cycle = 0.59 m³/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = 30.00 sec
 Gravel Pavement Thickness = 0.250 m
 C_m : Cycle Time = 30.00 sec

#0025 Disposal of Demolished Debris

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	0.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	0.29	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	21.44	40.92	424.84	257.62	229.58	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.5m ³)	hr	1.26	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	75.98	136.00	547.50	385.80	373.98	759.78
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								223.01	176.93	972.64	643.43	729.15	1,372.58	
	Components (%)								16.2%	12.9%	70.9%	46.9%	53.1%	100.0%	
	Unit Rate	m ³							22.26	17.66	97.08	64.22	72.78	137.00	

$Q = 3600 \cdot q \cdot f \cdot E / C_m$ (Backhoe)
 Q : Excavation capacity per hour = 35.4 m³/hr
 q : Excavation Volume per hour = 0.59 m³/hr
 q : Standard capacity per cycle = 0.59 m³/cycle
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = 30 sec
 $Q = q \cdot f \cdot E / C_m$ (Dump Truck)
 Q : Transportation Volume per hour = 7.91 m³/hr
 q : Loading Capacity of a Truck = 5.30 m³
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $A + 2 \cdot L / V$ = 0.60 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km

#0101 Excavation, Bulldozer 2lt

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/dozer (Bulldozer, 2lt)	hr	0.61	1.5%	8.2%	90.3%	51.4%	45.6%	4,150.00	37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50		
	Components (%)								1.5%	8.2%	90.3%	51.4%	45.6%	100.0%		
	Unit Rate	m ³							0.38	2.07	22.85	13.76	11.54	25.90		

$Q = 60 \cdot q \cdot f \cdot E / C_m$
 Q : Excavation capacity per hour = 164.04 m³/hr
 q : Standard capacity per cycle = 2.81 m³/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.90
 C_m : Cycle Time = $0.027 \cdot L + 0.79$ = 0.93 min
 L : Average pushing distance = 5.00 m

#0102 Excavation, Backhoe 0.35m³

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)
R0102-035	Backhoe, hydraulic, crawler, 0.35m ³	hr	4.08	4.4%	8.4%	87.2%	51.9%	48.2%	1,210.00	315.96	414.69	4,206.15	2,557.58	2,379.22	4,936.80	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								315.96	414.69	4,206.15	2,557.58	2,379.22	4,936.80		
	Components (%)								6.4%	8.4%	85.2%	51.9%	48.2%	100.0%		
	Unit Rate	m ³							5.16	4.15	42.09	25.59	23.81	49.40		

$Q = 3600 \cdot q \cdot f \cdot E / C_m$
 Q : Excavation capacity per hour = 24.48 m³/hr
 q : Standard capacity per cycle = 0.34 m³/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 C_m : Cycle Time = 30.00 sec

#0105 Excavation, Backhoe 0.61m³

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)
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.35	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	179.92	343.48	3,565.61	2,162.11	1,926.79	4,089.00	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								179.92	343.48	3,565.61	2,162.11	1,926.79	4,089.00		
	Components (%)								4.4%	8.4%	87.2%	52.9%	47.1%	100.0%		
	Unit Rate	m ³							1.80	3.44	35.68	21.53	19.27	40.92		

$Q = 3600 \cdot q \cdot f \cdot E / C_m$
 Q : Excavation capacity per hour = 42.48 m³/hr
 q : Standard capacity per cycle = 0.59 m³/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 C_m : Cycle Time = 30.00 sec

#0108 Excavation, Backhoe 0.61m³ + Manpower

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	0.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	0.27	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	20.67	39.46	409.67	248.42	221.38	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								146.27	39.46	409.67	248.42	246.98	595.40	
	Components (%)								24.6%	6.6%	68.8%	41.7%	58.3%	100.0%	
	Unit Rate	m ³							4.62	3.94	40.94	24.83	34.67	59.50	

#0107 Excavation, Clamshell + Backhoe

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	0.0%
Q0106-005	Clamshell, crawler, 0.6m ³	hr	2.90	2.9%	8.3%	88.8%	56.3%	43.7%	2,330.00	195.26	561.21	5,000.53	3,801.78	2,955.22	
R0102-010	Backhoe, hydraulic, crawler, 0.11m ³	day	0.50	10.1%	8.5%	81.4%	49.7%	50.3%	4,180.00	210.08	176.80	1,693.12	1,033.75	1,046.25	2,080.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								719.34	738.01	7,693.65	4,835.53	4,315.47	9,151.00	
	Components (%)								7.9%	8.1%	84.1%	52.8%	47.3%	100.0%	
	Unit Rate	m ³							7.19	7.38	76.93	48.35	43.15	91.50	

#0108 Excavation, Backhoe 0.61m³ + Crawler Drill

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)
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	0.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	62.78	119.85	1,244.17	754.47	672.33	1,426.80	0.0%
R0202-000	Crawler Drill	hr	0.82	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	424.75	230.60	194.16	424.75	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								62.78	119.85	1,668.93	985.07	866.49	1,851.56		
	Components (%)								3.4%	6.5%	90.1%	53.2%	46.8%	100.0%		
	Unit Rate	m ³							6.27	11.98	166.75	98.42	86.58	185.00		

#0109 Excavation, Manpower

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,318.80	0.00	0.00	0.00	1,318.80	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,318.80	0.00	0.00	0.00	0.00	1,318.80	
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate	m ³							132.00	0.00	0.00	0.00	0.00	132.00	

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	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.31	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	621.69	1,112.83	4,482.41	3,156.63	3,060.10	6,216.93	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									757.20	1,371.53	7,167.99	4,785.19	4,511.34	9,296.73		
Components (%)									8.1%	14.8%	77.1%	51.5%	48.5%	100.0%		
Unit Rate			m3						7.37	13.72	71.71	47.87	45.15	93.00		

Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour = 56.64 m3/hr Q : Transportation Volume per hour = 9.70 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km 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%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	62.11	111.19	447.81	315.38	305.71	621.09	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									470.31	419.39	447.81	315.38	305.71	1,028.29		
Components (%)									47.03%	41.94%	44.78%	31.54%	30.57%	100.00%		
Unit Rate			m3						47.03	41.94	44.78	31.54	30.57	103.00		

Q = q·f·E/Cm (Dump Truck) Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 9.70 m3/hr Q : Transportation Volume per hour = 9.70 m3/hr
 q : Loading Capacity of a Truck = 6.50 m3 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km L : Average Distance to Disposal Point = 5.00 km

W0121 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%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.89	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	143.93	274.78	2,852.45	1,729.77	1,541.43	3,271.20	
R0601-009	Dump Truck, 6.0-12.0 cu-yds (6.9-9.2m3)	hr	22.98	8.0%	17.9%	74.1%	51.9%	45.1%	756.00	1,389.83	3,109.73	12,873.30	9,017.54	8,355.34	17,172.88	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									1,533.76	4,884.53	15,725.79	10,747.30	11,396.78	22,144.08		
Components (%)									6.9%	22.1%	71.0%	48.5%	51.5%	100.0%		
Unit Rate			m3						15.31	48.75	156.94	107.25	113.74	221.00		

Q = q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour = 53.10 m3/hr Q : Transportation Volume per hour = 4.35 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3 q : Loading Capacity of a Truck = 9.80 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.75 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 24.00 km L : Average Distance from Quarry = 24.00 km

W0122 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%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00		
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	5,715.36	3,272.89	2,775.11	6,048.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.36	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	688.01	1,226.16	4,938.91	3,478.33	3,371.75	6,850.08	
	Miscellaneous	LS	1.00	25.0%	25.0%	50.0%	40.0%	60.0%	0.00	126.55	126.55	253.11	202.49	202.49	2.0%	
Total									2,342.36	4,009.70	19,454.83	12,143.01	13,671.89	25,816.89		
Components (%)									9.1%	15.5%	75.4%	47.0%	52.0%	100.0%		
Unit Rate			m3						23.42	40.07	194.52	121.33	136.61	258.00		

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour = 35.40 m3/hr Q : Transportation Volume per hour = 8.80 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3 q : Loading Capacity of a Truck = 5.90 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.00 km L : Average Distance from Quarry = 5.00 km

W0123 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	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	6.45	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	388.94	696.19	2,804.22	1,974.93	1,974.42	3,889.35	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									524.45	954.90	5,489.81	3,603.49	3,365.66	6,969.15		
Components (%)									7.5%	13.7%	78.8%	51.7%	48.3%	100.0%		
Unit Rate			m3						5.25	9.55	54.90	36.04	33.66	69.70		

Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour = 56.64 m3/hr Q : Transportation Volume per hour = 15.50 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 1.70 km L : Average Distance from Quarry = 1.70 km

W0128 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%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	166.14	317.17	3,292.50	1,996.59	1,779.21	3,775.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	166.14	317.17	3,292.50	1,996.59	1,779.21	3,775.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.16	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	612.85	1,096.64	4,417.19	3,110.90	3,015.59	6,126.48	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	0.00	65.11	65.11	130.22	104.09	104.09	2.0%	
Total									2,109.02	3,356.54	11,164.96	7,234.51	9,368.52	16,802.62		
Components (%)									12.7%	20.0%	67.2%	43.6%	56.4%	100.0%		
Unit Rate			m3						21.09	33.57	111.63	72.33	93.67	168.00		

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour = 45.02 m3/hr Q : Transportation Volume per hour = 9.85 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3 q : Loading Capacity of a Truck = 6.50 m3
 f : Volume Coefficient = 1.00 f : Volume Coefficient = 1.00
 E : Efficiency = 0.65 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.00 km L : Average Distance from Quarry = 5.00 km

W0129 Gravel/Stone, transported		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
M03004	Quarry Royalty (Gravel/Stone)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80			
	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.09	0.00	0.00	0.00	1,099.00	1,099.00			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80			
R0501-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.36	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	685.01	1,226.95	4,938.81	3,478.35	3,371.75	6,850.08			
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	77.05	115.58	192.63	154.10	231.15	293.25	2.0%			
	Total								2,992.86	3,666.08	13,688.99	8,821.74	10,828.20	19,647.93				
	Components (%)								11.7%	16.7%	69.7%	44.9%	55.1%	100.0%				
	Unit Rate	m3							22.87	36.57	130.56	88.00	108.00	196.00				

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/hr
 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 = 8.80 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 = 5.00 km

W0131 Backfill A		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	163.12	292.32	3,034.56	1,840.18	1,839.82	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	0.0%			
	Total								315.12	713.52	7,851.36	4,733.44	4,146.55	8,880.00				
	Components (%)								3.5%	8.0%	68.4%	53.3%	46.7%	100.0%				
	Unit Rate	m3							3.15	7.14	78.51	47.33	41.47	88.50				

W0132 Backfill B		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L020	Unskilled Labor	md	1.72	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	540.08	0.00	0.00	0.00	540.08	540.08			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.80	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	214.37	409.25	4,248.36	2,576.25	2,295.75	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	2,890.00	1,735.96	1,504.04	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	1,367.75	1,063.85	2,430.60			
R0306-006	Vibration Rammer, 6in	day	0.28	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.65	22.39	26.40	17.84	44.24			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								851.65	1,114.57	9,163.70	5,706.36	5,123.56	11,129.92				
	Components (%)								7.7%	10.0%	62.3%	51.3%	48.7%	100.0%				
	Unit Rate	m3							8.49	11.12	91.39	56.91	54.03	111.00				

W0133 Backfill C		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,350.20	0.00	0.00	0.00	1,350.20	1,350.20			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	4.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	306.24	584.64	6,069.12	3,680.53	3,279.65	6,960.00			
R0307-000	Plate Compactor	day	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,076.87	5,007.13	3,419.36	2,664.64	6,084.00			
R0306-006	Vibration Rammer, 6in	day	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	54.64	55.98	66.00	44.60	110.60			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								1,656.44	1,716.14	11,182.22	7,165.72	7,339.08	14,504.80				
	Components (%)								11.4%	11.8%	76.7%	49.4%	50.6%	100.0%				
	Unit Rate	m3							16.97	17.16	111.29	71.63	73.37	145.00				

W0134 Backfill D		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	6.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	459.36	876.96	9,103.68	5,320.63	4,919.47	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	5,126.52	3,507.04	2,732.56	6,240.00			
R0306-006	Vibration Rammer, 6in	day	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	546.36	559.64	660.00	445.98	1,106.00			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								2,657.36	2,527.80	14,798.84	9,687.59	10,296.41	19,984.00				
	Components (%)								13.3%	12.0%	74.1%	48.5%	51.5%	100.0%				
	Unit Rate	m3							26.59	25.30	148.11	96.95	103.05	200.00				

W0135 Backfill, Manpower + Compactor		Unit Rate										Amount					Unit: 10.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60			
R0307-000	Plate Compactor	day	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.66	124.80			
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								596.60	43.16	124.30	95.60	68.46	764.08				
	Components (%)								78.1%	5.3%	16.3%	12.5%	81.5%	100.0%				
	Unit Rate	m3							59.66	4.32	12.43	9.56	6.84	76.40				

W0141 Filling & Laying, bulldozer 15t		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (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	82.62	214.81	2,456.57	1,475.37	1,278.43	2,754.00			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								82.62	214.81	2,456.57	1,475.37	1,278.43	2,754.00				
	Components (%)								3.0%	7.8%	89.2%	53.6%	46.4%	100.0%				
	Unit Rate	m3							0.83	2.15	24.53	14.73	12.77	27.50				

Q = 10-E-(1S-D + 9)
 Q : Filling Volume per hour = 98 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

W0142 Filling & Laying, bulldozer 21t		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.71	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	44.20	241.61	2,660.69	1,602.96	1,343.54	2,946.50			
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total								44.20	241.61	2,660.69	1,602.96	1,343.54	2,946.50				
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%				
	Unit Rate	m3							0.44	2.42	26.84	16.05	13.45	29.50				

Q = 10-E-(1S-D + 15)
 Q : Filling Volume per hour = 140 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

W0145 Compaction, bulldozer 15t		Unit Rate										Amount					Unit: 100.00 m3	Remarks
Item No.	Description																	

#0146 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/dozer (Bulldozer, 21t)	hr	0.85	1.5%	8.2%	90.3%	34.4%	45.6%	4,150.00	39.22	214.39	2,360.89	1,422.35	1,192.15	2,614.50
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								39.22	214.39	2,360.89	1,422.35	1,192.15	2,614.50	
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate	m3							0.59	2.14	23.57	14.20	11.90	26.10	

Q = V*W*D/E/N
 Q : Compaction Volume per hour = 137.5 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

#0147 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	0.33	4.3%	9.0%	87.7%	52.7%	47.3%	1,970.00	44.90	83.53	918.68	550.54	493.56	1,044.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								44.90	83.53	918.68	550.54	493.56	1,044.10	
	Components (%)								4.3%	9.0%	87.7%	52.7%	47.3%	100.0%	
	Unit Rate	m3							0.45	0.83	9.12	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 = 0.80
 N : Number of Compaction = 5 times

#0148 Compaction, tamper 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%	314.00	94.20	0.00	0.00	0.00	94.20	94.20
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	46.4%	50.8%	39.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.56
R0307-000	Plate Compactor	day	0.80	0.0%	17.7%	82.3%	36.2%	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								94.20	131.52	535.14	376.16	384.70	760.86	
	Components (%)								12.4%	17.3%	70.3%	49.4%	50.6%	100.0%	
	Unit Rate	m3							9.42	13.15	53.52	37.62	38.47	76.10	

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 = 0.80
 N : Number of Compaction = 5 times

#0149 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/dozer (Bulldozer, 21t)	hr	1.35	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	84.04	459.41	5,059.06	3,047.89	2,554.61	5,602.50
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								84.04	459.41	5,059.06	3,047.89	2,554.61	5,602.50	
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate	m3							0.84	4.59	50.57	30.47	25.53	56.00	

Q = Q1*Q2/(Q1+Q2)
 Q1 = V*W*D/E/N
 Q1 : Compaction Volume per hour = 137.5 m3/hr
 V : Compaction speed = 3,500 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.800
 N : Number of Compaction = 4 times
 Q2 = 10*E*(13-D + 9)
 Q2 : Filling Volume per hour = 140.00 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

#0150 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/dozer (Bulldozer, 15t)	hr	1.91	3.0%	7.8%	89.2%	53.8%	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%	7.8%	89.2%	53.8%	46.4%	100.0%	
	Unit Rate	m3							1.55	4.02	46.03	27.63	23.95	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 = 93.00 m3/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

#0151 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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.40	3.0%	7.8%	89.2%	53.8%	46.4%	2,700.00	113.40	294.94	3,371.76	2,025.29	1,734.71	3,780.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								295.60	294.94	3,371.76	2,025.29	1,969.71	3,962.20	
	Components (%)								7.5%	7.4%	85.1%	51.1%	48.9%	100.0%	
	Unit Rate	m2							2.95	2.95	33.70	20.24	19.36	39.60	

#0152 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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	219.80	0.00	0.00	0.00	219.80	219.80
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.60	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	199.06	380.02	3,944.93	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								475.46	380.02	3,944.93	2,392.23	2,408.17	4,800.40	
	Components (%)								9.9%	7.9%	82.2%	49.8%	50.2%	100.0%	
	Unit Rate	m2							4.75	3.80	39.45	23.92	24.08	48.00	

#0161 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%	403.00	120.90	0.00	0.00	0.00	120.90	120.90
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	280.90	480.85	2,334.25	1,456.21	1,639.79	3,096.00
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%	0.00	0.00	28.37	85.10	62.40	113.45	
	Total								967.00	509.21	2,419.35	1,519.61	2,376.95	3,895.55	
	Components (%)								24.8%	13.1%	62.1%	39.0%	61.0%	100.0%	
	Unit Rate	m3							96.81	50.98	242.21	152.03	237.97	390.00	

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

#0162 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%	403.00	120.90	0.00	0.00	0.00	120.90	120.90
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20
W0128	Selected Sand, transported	m3	12.00	12.7%	20.0%	67.2%	43.6%	56.4%	165.00	253.04	399.37	1,339.58	867.98	1,124.02	1,992.00
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%	0.00	0.00	20.09	60.25	44.19	80.24	
	Total								939.14	419.46	1,859.64	912.17	1,946.27	2,758.44	
	Components (%)								34.0%	15.2%	50.7%	33.1%	56.9%	100.0%	
	Unit Rate	m3							93.97	41.97	140.06	91.27	184.73	275.80	

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

#0201 Lean Concrete (17MPa, max agg. 38mm)

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08
M03011	Portland Cement, ordinary	t	3.30	0.0%	100.0%	0.0%	60.0%	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	m3	4.59	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	107.44	183.92	892.85	557.00	627.22	1,184.22
W0128	Selected Sand, transported	m3	3.19	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	67.27	106.17	356.11	230.74	296.50	529.54
W01010	Water Supply	kg	1.15	0.0%	100.0%	0.0%	10.0%	30.0%	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 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	29.86	133.46	133.46	148.29	148.29	296.59	2.0%
	Total								413.91	11,817.49	2,894.44	8,236.20	6,589.64	15,126.84	
	Components (%)								2.7%	78.1%	19.1%	56.4%	43.6%	100.0%	
	Unit Rate	m3							41.32	1,179.73	288.35	852.16	657.84	1,510.00	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 324.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 1,106.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 757.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.42 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 3.30 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0202 Concrete (Class B, 17MPa, max agg. 50mm)

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08
M03011	Portland Cement, ordinary	t	2.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	9,888.75	0.00	5,933.25	3,955.50	9,888.75
W0122	Crushed Aggregate, transported	m3	5.48	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	128.28	219.59	1,063.97	665.00	748.84	1,413.84
W0128	Selected Sand, transported	m3	2.70	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	56.93	89.86	291.41	201.90	252.90	448.20
W01010	Water Supply	kg	1.55	0.0%	100.0%	0.0%	10.0%	30.0%	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 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	27.43	123.44	123.44	137.16	137.16	274.31	2.0%
	Total								422.19	10,564.83	3,002.84	7,647.05	6,142.81	13,989.86	
	Components (%)								3.0%	75.5%	21.5%	56.1%	43.9%	100.0%	
	Unit Rate	m3							42.25	1,057.25	300.50	785.27	614.73	1,400.00	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 287.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 1,321.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 641.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.42 hr
 Water = 155.00 kg/m3 L : Transportation Distance = 3.30 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0203 Concrete (Class A, 21MPa, max agg. 38mm)

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08
M03011	Portland Cement, ordinary	t	4.52	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,285.00	0.00	7,371.00	4,914.00	12,285.00
W0122	Crushed Aggregate, transported	m3	4.52	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	105.81	181.12	879.23	548.50	617.66	1,166.16
W0128	Selected Sand, transported	m3	3.14	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	66.21	104.50	358.52	227.12	294.12	521.24
W01010	Water Supply	kg	1.75	0.0%	100.0%	0.0%	10.0%	30.0%	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 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	31.90	143.55	143.55	159.50	159.50	319.01	2.0%
	Total								413.46	12,970.81	2,885.33	9,223.80	7,045.60	18,269.40	
	Components (%)								2.5%	79.7%	17.7%	56.7%	43.3%	100.0%	
	Unit Rate	m3							41.42	1,299.50	289.08	924.11	705.89	1,520.00	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 357.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 1,089.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 746.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.42 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 3.30 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0203a Concrete (Class A1, 21MPa, max agg. 20mm)

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08
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	7,815.50	5,211.00	13,027.50
W0122	Crushed Aggregate, transported	m3	4.08	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	95.81	163.49	799.65	495.11	557.53	1,052.64
W0128	Selected Sand, transported	m3	3.34	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	70.43	111.16	372.85	241.59	312.85	554.44
W01010	Water Supply	kg	1.85	0.0%	100.0%	0.0%	10.0%	30.0%	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 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	33.24	149.57	149.57	166.19	166.19	332.38	2.0%
	Total								408.72	13,714.77	2,828.08	9,637.72	7,313.85	16,951.57	
	Components (%)								2.4%	80.9%	16.7%	56.9%	43.1%	100.0%	
	Unit Rate	m3							40.99	1,375.40	283.62	924.11	705.89	1,700.00	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 378.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 984.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 793.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.42 hr
 Water = 185.00 kg/m3 L : Transportation Distance = 3.30 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0204 Concrete (Class C, 21MPa, max agg. 12mm)

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08
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	m3	3.71	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	86.84	148.66	721.67	450.21	506.97	957.18
W0128	Selected Sand, transported	m3	3.57	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	75.28	118.81	398.53	258.22	334.40	592.62
W01010	Water Supply	kg	1.90	0.0%	100.0%	0.0%	10.0%	30.0%	66.20	0.00	126.78	0.00	12.58	113.20	125.78
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 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00						

W0205 Concrete (Class AA1, 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%	566.00	33.96	0.00	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	0.00	69.08	69.08
W03011	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	Loss 2.0%
W0122	Crushed Aggregate, transported	m³	4.70	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	110.02	186.33	914.25	570.35	642.25	1,212.60	Loss 10.0%
W0128	Selected Sand, transported	m³	2.76	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	58.20	91.86	308.10	198.54	238.52	458.16	Loss 10.0%
W01010	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	Loss 2.0%
W03401	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	Loss 2.0%
R0701-040	Concrete Batch Plant 40m³/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m³)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	34.86	34.86	156.89	136.89	174.32	174.32	348.65	2.0%
Total									412.63	14,477.11	2,891.26	10,249.44	7,531.56	17,781.00		
Components (%)									2.3%	81.4%	16.3%	57.6%	42.4%	100.0%		
Unit Rate									41.31	1,449.26	289.43	1,026.04	753.96	1,780.00		

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

- Cement = 399.00 kg/m³ Plant Daily Operation = 5.53 hr
- Aggregate (max 25mm) = 1,102.00 kg/m³ Concrete Mixer Truck Capacity = 4.30 m³
- Sand = 655.00 kg/m³ Transportation Time = 2-L/V + .16 = 0.42 hr
- Water = 155.00 kg/m³ L : Transportation Distance = 3.30 km
- Admixture = 0.92 kg/m³ V : Transportation Velocity = 25.00 km/hr

W0205 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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
W03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,533.73	0.00	8,120.23	5,413.50	13,533.73	Loss 2.0%
W0122	Crushed Aggregate, transported	m³	4.15	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	97.14	166.29	807.26	503.61	587.09	1,070.70	Loss 10.0%
W0128	Selected Sand, transported	m³	3.00	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	63.26	99.84	334.90	281.01	498.00	Loss 10.0%	
W01010	Water Supply	m³	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23	Loss 2.0%
W03401	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	Loss 2.0%
R0701-040	Concrete Batch Plant 40m³/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m³)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	36.51	36.51	164.28	164.28	182.54	182.54	365.08	2.0%
Total									406.43	13,992.98	2,818.46	10,786.39	7,852.50	18,618.50		
Components (%)									2.2%	82.7%	15.1%	57.8%	42.2%	100.0%		
Unit Rate									40.60	1,397.84	281.86	1,076.65	784.45	1,860.00		

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

- Cement = 399.00 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 = 0.42 hr
- Water = 165.00 kg/m³ L : Transportation Distance = 3.30 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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
W03011	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	9,699.75	6,466.50	16,166.25	Loss 2.0%
W0122	Crushed Aggregate, transported	m³	3.98	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	93.16	159.48	774.19	482.96	548.86	1,026.84	Loss 10.0%
W0128	Selected Sand, transported	m³	3.01	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	63.47	100.18	336.01	217.72	281.94	499.66	Loss 10.0%
W01010	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	Loss 2.0%
W03401	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	426.22	1,420.72	Loss 2.0%
R0701-040	Concrete Batch Plant 40m³/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m³)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	42.16	42.16	189.70	189.70	210.78	210.78	421.56	2.0%
Total									408.34	16,279.52	2,841.33	12,522.07	8,977.71	21,498.78		
Components (%)									1.9%	85.0%	13.1%	59.2%	41.9%	100.0%		
Unit Rate									40.83	1,627.97	284.13	1,252.22	897.78	2,150.00		

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) = 960.00 kg/m³ Concrete Mixer Truck Capacity = 4.30 m³
- Sand = 714.00 kg/m³ Transportation Time = 2-L/V + .16 = 0.42 hr
- Water = 155.00 kg/m³ L : Transportation Distance = 3.30 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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
W03011	Portland Cement, ordinary	t	3.96	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.50	0.00	6,196.50	4,131.00	10,327.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m³	3.62	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	131.55	225.20	1,093.21	681.99	767.97	1,449.96	Loss 10.0%
W0128	Selected Sand, transported	m³	2.41	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	59.82	80.21	269.03	174.32	225.74	400.06	Loss 10.0%
W01010	Water Supply	m³	1.35	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	89.37	0.00	8.94	80.43	89.37	Loss 2.0%
W03401	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	Loss 2.0%
R0701-040	Concrete Batch Plant 40m³/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m³)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	82.68	94.17	971.55	588.50	559.90	1,148.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	30.06	30.06	135.29	135.29	150.32	150.32	300.63	2.0%
Total									421.98	11,900.84	3,009.54	8,750.04	6,582.33	15,332.38		
Components (%)									2.8%	77.6%	19.6%	57.1%	42.9%	100.0%		
Unit Rate									42.11	1,197.37	300.92	873.18	658.84	1,530.00		

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

- Cement = 390.00 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 = 0.42 hr
- Water = 135.00 kg/m³ L : Transportation Distance = 3.30 km
- Admixture = 0.75 kg/m³ V : Transportation Velocity = 25.00 km/hr

W0215 Concrete (for RCP, 25MPa, 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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
W03011	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	7,573.50	5,049.00	12,622.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m³	4.20</													

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	14,951.25	0.00	8,970.75	5,980.50	14,951.25	Loss 2.0%
M0122	Crushed Aggregate, transported	m ³	4.06	9.1%	15.5%	75.4%	47.0%	53.0%	288.00	95.04	182.89	789.76	492.68	1,047.48	Loss 10.0%	
M0128	Selected Sand, transported	m ³	2.99	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	62.21	98.18	329.21	213.38	276.32	489.70	Loss 10.0%
M01010	Water Supply	m ³	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	85.20	0.00	109.23	0.00	10.92	98.31	109.23	
M03401	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 40m ³ /hr with silo	hr	0.31	3.9%	7.0%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m ³)	hr	0.99	7.2%	8.2%	84.6%	51.2%	48.8%	1,180.00	82.68	94.17	971.55	588.50	559.90	1,148.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	39.54	39.54	177.95	177.95	197.72	197.72	395.44	2.0%
	Total								406.23	16,952.04	2,809.03	11,710.05	8,457.36	20,167.40		
	Components (%)								2.0%	84.1%	13.9%	58.1%	41.9%	100.0%		
	Unit Rate	m ³							40.70	1,697.94	281.36	1,172.90	847.10	2,020.00		

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

- Cement = 434.00 kg/m³ Fleet 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 = 0.42 hr
- Water = 165.00 kg/m³ L : Transportation Distance = 3.30 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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
M03011	Portland Cement, ordinary	t	4.59	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,638.75	0.00	9,983.25	6,655.50	16,638.75	Loss 2.0%
M0128	Selected Sand, transported	m ³	6.11	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	128.84	203.35	882.07	441.95	572.31	1,014.26	Loss 10.0%
M01010	Water Supply	m ³	2.17	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	143.65	0.00	14.33	129.29	143.65	
R0711-012	Concrete Mixer 7-12 ft ³ /min (0.20-0.33m ³ /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%	29.77	18.22	81.08	81.08	90.05	90.05	180.17	1.0%
	Total								29.77	17,070.40	829.58	10,568.08	7,629.56	18,197.83		
	Components (%)								1.5%	94.1%	4.3%	58.2%	41.9%	100.0%		
	Unit Rate	m ³							29.77	1,707.26	82.97	1,056.94	763.06	1,820.00		

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

- Cement = 483.00 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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
M03011	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%
M0128	Selected Sand, transported	m ³	7.88	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	166.17	262.26	878.66	569.97	738.11	1,308.08	Loss 10.0%
M01010	Water Supply	m ³	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 ft ³ /min (0.20-0.33m ³ /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%	23.13	18.22	104.15	104.15	115.73	115.73	231.45	1.0%
	Total								340.11	21,985.59	1,050.24	13,601.39	9,775.55	23,376.94		
	Components (%)								1.5%	94.1%	4.3%	58.2%	41.9%	100.0%		
	Unit Rate	m ³							34.01	2,200.83	105.13	1,361.18	978.52	2,340.00		

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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
M03011	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%
M0128	Selected Sand, transported	m ³	3.23	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	110.71	174.73	586.07	378.74	491.36	871.50	Loss 10.0%
M03402	Non-shrink Admixture	kg	19.08	0.0%	100.0%	0.0%	70.0%	30.0%	352.00	0.00	7,471.52	0.00	5,230.06	2,241.46	7,471.52	Loss 2.0%
M01010	Water Supply	m ³	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 ft ³ /min (0.20-0.33m ³ /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%	30.18	18.22	135.81	135.81	150.90	150.90	301.80	1.0%
	Total								291.69	29,402.24	788.31	18,676.40	11,805.93	30,482.23		
	Components (%)								1.0%	96.5%	2.6%	61.3%	38.7%	100.0%		
	Unit Rate	m ³							29.19	2,940.84	78.88	1,868.73	1,181.27	3,050.00		

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

- Cement = 623.00 kg/m³
- Sand = 1,245.00 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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m ³ /hr)	hr	0.72	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%	18.0%	90.0%	55.0%	45.0%	400.00	0.00	4.17	37.55	27.95	18.78	41.73	2.0%
	Total								400.00	4.17	1,723.85	923.93	1,204.10	2,128.03		
	Components (%)								18.8%	0.2%	81.0%	43.4%	56.6%	100.0%		
	Unit Rate	m ³							40.04	0.42	172.53	92.48	120.52	213.00		

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%</								

W0234 Concrete Pouring by Truck Crane											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	nd	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20
L019	Skilled Labor	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40
L020	Unskilled Labor	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	282.60	0.00	0.00	0.00	282.60	282.60
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.90	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	140.28	156.54	1,736.18	1,046.03	966.97	2,038.00
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	5.50	49.52	30.25	24.76	55.02
Total										553.48	152.04	1,785.70	1,076.28	1,729.93	2,838.22
Components (%)										30.8%	5.8%	63.5%	39.4%	61.6%	100.0%
Unit Rate										65.95	15.23	178.61	107.77	173.23	281.00

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
				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%	566.00	452.80	0.00	0.00	0.00	452.80	452.80
L019	Skilled Labor	nd	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80
L020	Unskilled Labor	nd	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00	1,099.00
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	4.39	39.54	24.16	19.77	43.93
Total										2,196.60	4.39	39.54	24.16	2,216.37	2,240.53
Components (%)										98.0%	0.2%	1.5%	1.1%	98.9%	100.0%
Unit Rate										219.61	0.44	3.95	2.42	221.38	224.00

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
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	nd	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80	62.80
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	7.72	18.02	14.16	11.59	25.75
Total										62.80	7.72	18.02	14.16	74.39	88.55
Components (%)										70.9%	6.7%	20.4%	16.0%	84.0%	100.0%
Unit Rate										6.28	0.77	1.80	1.42	7.43	8.85

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
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	nd	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	31.40	0.00	0.00	0.00	31.40	31.40
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	3.20	7.47	5.87	4.80	10.69
Total										31.40	3.20	7.47	5.87	38.20	42.09
Components (%)										74.6%	7.0%	17.9%	14.0%	86.0%	100.0%
Unit Rate										3.14	0.32	0.75	0.59	3.82	4.21

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

W0240 Formwork (plain concrete H<4m)											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	nd	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20
L005	Carpenter	nd	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	6,571.20	0.00	0.00	0.00	6,571.20	6,571.20
L020	Unskilled Labor	nd	14.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,678.60	0.00	0.00	0.00	4,678.60	4,678.60
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	2,565.00	2,700.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	261.06	174.04	217.55	217.55	435.10
Total										13,061.00	8,955.06	174.04	682.25	21,532.85	22,190.10
Components (%)										58.9%	40.4%	0.8%	2.9%	97.1%	100.0%
Unit Rate										130.61	89.59	1.74	6.83	213.47	222.00

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

W0241 Formwork (reinforced concrete H<4m)											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	nd	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20
L005	Carpenter	nd	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	7,281.60	0.00	0.00	0.00	7,281.60	7,281.60
L020	Unskilled Labor	nd	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,207.60	0.00	0.00	0.00	4,207.60	4,207.60
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	2,565.00	2,700.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	263.93	175.96	219.94	219.94	439.89
Total										13,300.40	8,957.93	175.96	654.64	21,779.64	22,434.29
Components (%)										58.3%	39.9%	0.8%	2.9%	97.1%	100.0%
Unit Rate										132.80	89.44	1.76	6.54	217.46	224.00

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

W0242 Formwork (reinforced concrete H≥4m)											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	nd	3.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,754.60	0.00	0.00	0.00	1,754.60	1,754.60
L005	Carpenter	nd	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	7,069.60	0.00	0.00	0.00	7,069.60	7,069.60
L020	Unskilled Labor	nd	13.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,082.00	0.00	0.00	0.00	4,082.00	4,082.00
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	2,565.00	2,700.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	5.71	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	421.57	470.45	5,217.68	3,143.59	2,966.11	6,197.70
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	332.40	221.60	277.00	277.00	554.00
Total										13,317.77	9,498.85	5,439.28	3,855.29	24,398.61	25,253.90
Components (%)										47.1%	33.6%	19.3%	13.6%	86.4%	100.0%
Unit Rate										133.39	95.12	54.48	38.82	244.38	253.00

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
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L005	Carpenter	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	444.00	0.00	0.00	0.00	444.00	444.00
L020	Unskilled Labor	nd	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
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	13.50	256.50	270.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	17.86	11.91	14.88	14.88	29.76
Total										626.20	879.85	11.91	57.38	1,459.96	1,517.96
Components (%)										41.3%	56.0%	0.8%	3.8%	96.2%	100.0%
Unit Rate										62.70	88.10	1.19	5.81	146.19	152.00

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

W0244 Formwork for Bridge Superstructures											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	Total (PP)	
L002	Foreman	nd	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00</		

#0245 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)						Total (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%	566.00	328.28	0.00	0.00	0.00	328.28	328.28		
L005	Carpenter	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	1,829.28	0.00	0.00	0.00	1,829.28	1,829.28		
L020	Unskilled Labor	md	2.28	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	715.92	0.00	0.00	0.00	715.92	715.92		
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	29.00	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	256.50	270.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	6.9%	7.7%	35.4%	51.5%	48.5%	1,070.00	59.06	65.91	731.02	440.43	415.57	656.00		
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	55.0%	45.0%	0.00	0.00	82.65	9.18	50.51	41.32	91.83		
	Total								2,932.54	1,010.56	740.21	534.04	4,149.27	4,683.51			
	Components (%)								62.6%	21.6%	15.8%	11.4%	88.5%	100.0%			
	Unit Rate	m ²							293.25	101.06	74.02	53.40	414.93	468.35			

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

#0251 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)						Total (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%	566.00	396.20	0.00	0.00	0.00	396.20	396.20		
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80		
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80		
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80		
M02002	Reinforcing Bars, Grade 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	5.8%	6.8%	37.7%	52.0%	48.0%	1,330.00	41.70	51.55	684.85	393.92	384.16	758.10		
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	769.49	1,154.23	1,039.05	865.66	1,923.72		
	Total								3,538.30	17,941.04	1,819.09	12,519.97	10,718.45	23,298.42			
	Components (%)								15.2%	77.0%	7.8%	54.0%	46.0%	100.0%			
	Unit Rate	kg							3.54	17.94	1.82	12.52	10.72	23.30			

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

#0252 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)						Total (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%	566.00	396.20	0.00	0.00	0.00	396.20	396.20		
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80		
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80		
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80		
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00		
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.8%	6.8%	37.7%	52.0%	48.0%	1,330.00	41.70	51.55	393.92	384.16	758.10			
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	806.01	1,212.01	1,111.01	909.01	2,020.02		
	Total								3,538.30	19,049.56	1,876.37	13,328.43	11,336.50	24,464.72			
	Components (%)								14.8%	77.9%	7.4%	54.5%	45.5%	100.0%			
	Unit Rate	kg							3.54	19.05	1.88	13.33	11.15	24.50			

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

#0303 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication @ 480 (18")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.03	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	41.79	1,480.71	290.30	1,045.22	767.58	1,812.80		
W0232	Concrete Curium (reinforced concrete)	m ³	1.01	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	40.32	0.51	218.74	117.22	142.35	259.57		
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	92.20	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	326.70	1,758.90	173.30	1,230.65	1,028.25	2,258.90		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	8.85	5.41	43.94	27.38	30.82	58.20		
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.20	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	12.05	21.59	98.95	61.24	59.36	120.80		
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	514.23	3,511.23	1,301.32	2,847.96	2,478.14	5,326.30		
	Total								2,552.27	6,802.15	3,863.85	3,056.60	4,466.92	8,172.33			
	Components (%)								14.5%	65.9%	24.4%	53.5%	46.3%	100.0%			
	Unit Rate	m							255.23	680.22	386.39	305.66	446.69	817.23			

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

#0304 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)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.60	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	64.92	2,300.14	460.94	1,623.64	1,192.36	2,816.00		
W0232	Concrete Curium (reinforced concrete)	m ³	1.57	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	62.68	0.79	340.02	182.21	221.28	403.49		
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	160.70	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4.93	0.50	1.17	0.92	5.69	6.61		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	569.42	3,065.68	302.05	2,144.97	1,792.18	3,937.15		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	13.27	8.12	63.91	41.07	48.23	87.30		
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.31	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	18.69	33.46	134.78	94.92	92.01	186.93		
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	133.87	401.62	803.25	602.44	736.21	1,338.75		
	Total								2,657.30	5,810.51	2,066.12	4,650.18	4,086.06	8,773.23			
	Components (%)								9.9%	66.2%	23.9%	53.4%	46.6%	100.0%			
	Unit Rate	m							265.73	581.05	206.61	465.02	408.61	877.32			

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

#0305 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)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	2.30	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	50.32	3,306.45	648.23	2,333.98	1,714.02	4,048.00		
W0232	Concrete Curium (reinforced concrete)	m ³	2.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	89.83	1.13	467.29	261.14	317.11	578.25		
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	2.25	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4.21	0.72	1.68	1.32	8.15	9.47		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	875.22	4,712.03	464.25	3,296.87	2,754.63	6,051.50		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10		
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.44	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	26.53	47.49	191.30	134.72	130.60	266.32		
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	199.49	598.25	1,196.49	897.37	1,095.79	1,994.16		
	Total								2,955.55	8,677.79	3,084.45	6,994.72	6,088.08	13,072.50			
	Components (%)								10.0%	66.4%	23.6%	53.4%	46.6%	100.0%			
	Unit Rate	m							295.56	867.78	308.45	699.47	608.81	1,307.25			

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

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication @1070 (42°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	4.05	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	164.32	6,822.22	1,141.45	4,109.83	3,018.17	7,128.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	869.78	460.76	559.53	1,020.29	
W0237	Concrete Curing (reinforced concrete)	m3	3.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	12.47	1.27	2.97	2.33	14.38	16.71	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	545.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,934.34	10,414.15	1,026.06	7,286.48	6,088.07	13,374.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	34.65	21.20	172.10	107.23	120.72	227.95	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.78	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	47.03	94.19	359.12	238.83	231.51	470.34	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		400.28	1,200.84	2,401.69	1,801.27	2,201.55	4,002.81	18.0%
Total									2,751.60	17,545.66	5,943.17	14,006.73	12,233.93	26,240.65		
Components (%)									10.9%	66.9%	22.6%	53.4%	46.6%	100.0%		
Unit Rate									274.73	1,751.87	593.40	1,398.50	1,221.50	2,620.00		

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	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	5.13	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	208.14	7,374.81	1,445.84	5,205.78	3,823.02	9,028.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.53	1,089.35	583.78	708.93	1,292.71	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	15.31	1.61	3.76	2.96	18.22	21.18	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	684.40	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,425.10	13,056.32	1,286.38	9,135.13	7,632.67	16,787.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.59	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	43.49	26.61	216.04	134.61	151.54	286.15	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.98	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	59.09	105.78	426.07	300.07	290.87	590.94	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		303.78	1,511.33	3,022.66	2,266.99	2,770.77	5,037.76	18.0%
Total									3,456.24	22,079.00	7,490.10	17,629.32	15,396.02	33,025.34		
Components (%)									10.9%	66.9%	22.6%	53.4%	46.6%	100.0%		
Unit Rate									345.62	2,207.90	749.01	1,762.93	1,539.60	3,302.53		

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 @1380 (60°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	7.62	2.3%	81.7%	16.0%	57.7%	42.3%	1,760.00	309.17	10,954.40	2,147.82	7,732.56	5,678.64	13,411.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	23.47	2.39	5.59	4.39	27.06	31.45	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,635.17	19,571.12	1,928.25	13,630.77	11,441.19	25,134.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.85	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	64.87	39.69	322.23	200.77	226.03	426.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.46	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	98.04	157.59	634.75	447.04	433.34	880.38	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		752.48	2,257.43	4,514.85	3,388.14	4,138.61	7,524.75	18.0%
Total									5,171.45	32,986.39	11,171.08	26,331.23	22,977.69	49,328.92		
Components (%)									10.9%	66.9%	22.6%	53.4%	46.6%	100.0%		
Unit Rate									517.14	3,298.64	1,117.11	2,633.12	2,297.77	4,932.89		

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	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	0.80	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	32.56	1,358.36	225.09	938.32	617.68	1,616.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.78	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	31.14	0.39	168.92	90.53	109.90	200.46	
W0237	Concrete Curing (reinforced concrete)	m3	0.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	2.45	0.25	0.58	0.46	2.82	3.28	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	122.70	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	434.77	2,340.75	230.62	1,637.76	1,368.39	3,006.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	6.63	4.06	32.96	20.53	23.12	45.65	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.15	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	9.05	16.19	65.21	45.93	44.52	90.45	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		89.28	267.84	535.68	401.76	491.04	892.80	18.0%
Total									605.88	3,967.84	1,259.07	3,135.28	2,177.51	5,852.79		
Components (%)									10.4%	68.1%	21.5%	53.6%	46.4%	100.0%		
Unit Rate									60.59	396.78	125.91	313.53	217.75	585.28		

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 @610 (24°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.33	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	54.13	2,258.27	374.21	1,559.95	1,126.65	2,886.50	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.30	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	51.90	0.66	281.54	150.88	183.22	334.10	
W0237	Concrete Curing (reinforced concrete)	m3	1.30	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	4.08	0.42	0.97	0.76	4.71	5.47	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	199.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	706.91	3,805.87	374.97	2,662.86	2,224.89	4,887.75	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	11.06	6.77	54.93	34.22	38.53	72.75	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.25	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	15.08	26.98	108.69	75.55	74.20	150.75	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		146.47	439.47	878.94	659.13	805.60	1,464.74	18.0%
Total									989.63	6,588.37	2,074.15	5,144.35	4,457.80	9,902.16		
Components (%)									10.7%	68.1%	21.5%	53.6%	46.4%	100.0%		
Unit Rate									98.96	658.84	207.42	514.43	445.78	990.22		

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	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
				Amount						Amount						
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.93	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	104.60	4,363.72	723.09	3,014.35	2,177.05	5,191.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.89	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	75.46	0.95	409.32	219.35	266.38	485.73	
W0237	Concrete Curing (reinforced concrete)	m3	1.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	5.94	0.61	1.41	1.11	6.85	7.96	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	272.60	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	965.93	5,200.40	512.37	3,638.57	3,040.13	6,878.70	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.22	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	16.22	9.92	80.56	50.19	56.51	106.70	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.37	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	22.31	39.94	160.86	113.29	109.82	223.11	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		205.21	615.64	1,231.29	923.46	1,128.68	2,052.14	18.0%
Total									1,369.62	9,144.49	2,938.83	7,209.66	6,243.27	13,452.94		
Components (%)									10.2%	68.0%	21.8%	53.6%	46.4%	100.0%		
Unit Rate									136.96	914.45	293.88	720.97	624.33	1,345.29		

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

W0316 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication @910 (36°)											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.									

W0317 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1070 (42")											Unit: 10.00 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)
W0216	Concrete (for RCPC, 32MPa, max)	m3	3.32	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	136.12	5,637.17	934.11	3,894.02	2,812.36	6,706.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	129.76	1.64	703.85	377.20	458.05	835.25	
W0237	Concrete Curing (reinforced concrete)	m3	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	10.21	1.04	2.43	1.91	11.77	13.68	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	609.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,157.93	11,617.91	1,144.66	5,128.72	6,791.78	14,920.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.38	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	28.01	17.14	139.13	86.70	97.80	184.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.63	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	37.99	88.00	273.90	192.90	186.99	379.89	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		414.72	1,244.16	2,488.32	1,926.24	2,260.98	4,147.20	18.0%
Total									2,913.74	18,587.06	5,688.42	14,547.68	12,339.54	27,187.22		
Components (%)									10.7%	68.4%	20.9%	53.5%	46.5%	100.0%		
Unit Rate									291.37	1,858.71	568.84	1,454.77	1,233.95	2,718.72		

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					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	4.30	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	176.00	7,301.16	1,209.84	5,043.46	3,642.54	8,686.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.22	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	168.49	2.13	913.93	489.77	594.77	1,084.54	
W0237	Concrete Curing (reinforced concrete)	m3	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	13.26	1.35	3.16	2.48	15.29	17.77	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,739.97	15,042.24	1,482.04	10,524.62	8,780.63	19,318.25	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.50	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	36.86	22.35	189.09	114.07	124.50	242.50	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.82	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	49.45	88.51	356.51	251.08	243.38	494.46	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		537.18	1,611.55	3,223.10	2,413.33	2,954.51	5,371.83	18.0%
Total									3,774.21	24,069.49	7,371.66	18,842.81	16,372.54	36,213.35		
Components (%)									10.7%	68.4%	20.9%	53.5%	46.5%	100.0%		
Unit Rate									377.42	2,406.95	737.17	1,884.28	1,637.25	3,621.33		

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					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	6.27	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	255.18	10,646.11	1,764.11	7,354.07	5,311.33	12,665.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	6.15	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	245.54	3.10	1,331.91	713.77	866.78	1,580.55	
W0237	Concrete Curing (reinforced concrete)	m3	6.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	19.32	1.97	4.60	3.61	22.28	25.89	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,186.30	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4,203.53	22,631.08	2,229.74	15,834.32	13,230.03	29,084.35	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.72	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	53.08	32.48	263.65	164.27	184.93	349.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.20	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	72.36	129.52	521.72	367.43	356.17	723.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		799.36	2,388.09	4,796.17	3,597.13	4,393.49	7,993.62	18.0%
Total									5,648.38	33,842.34	10,911.89	28,034.60	24,368.01	52,402.61		
Components (%)									10.8%	68.4%	20.9%	53.5%	46.5%	100.0%		
Unit Rate									564.84	3,384.23	1,091.19	2,803.46	2,436.80	5,240.26		

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 #460 (18")											Unit: 10.00 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)
W0216	Concrete (for RCPC, 32MPa, max)	m3	1.03	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	41.92	1,748.88	289.80	1,208.08	872.52	2,080.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.01	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	40.32	0.51	218.74	117.22	142.35	259.57	
W0237	Concrete Curing (reinforced concrete)	m3	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.17	0.32	0.73	0.59	3.66	4.25	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	158.20	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	560.57	3,017.99	297.38	2,111.80	1,764.30	3,875.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	8.85	5.41	43.94	27.38	30.82	58.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.20	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	12.06	21.59	86.95	61.24	59.36	120.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		115.18	345.35	691.10	518.30	633.51	1,151.84	18.0%
Total									782.07	5,140.25	1,628.64	4,044.44	3,696.52	7,550.96		
Components (%)									10.4%	68.1%	21.8%	53.6%	46.4%	100.0%		
Unit Rate									78.21	514.03	162.86	404.44	369.65	755.10		

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					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	1.60	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	65.12	2,716.71	450.17	1,876.64	1,355.36	3,232.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.57	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	62.68	0.79	340.02	182.21	221.28	403.49	
W0237	Concrete Curing (reinforced concrete)	m3	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	4.95	0.50	1.17	0.92	5.69	6.61	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	228.40	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	809.31	4,357.19	429.29	3,048.80	2,547.20	5,595.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	13.27	8.12	65.91	41.07	46.23	87.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.31	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	18.69	33.46	134.78	94.92	92.01	186.93	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		171.22	513.66	1,027.31	770.48	941.70	1,712.18	18.0%
Total									1,143.23	7,830.43	2,488.68	6,014.55	5,209.47	11,224.31		
Components (%)									10.2%	68.0%	21.8%	53.6%	46.4%	100.0%		
Unit Rate									114.32	783.04	248.87	601.46	520.95	1,122.43		

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					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	2.30	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	93.61	3,905.27	647.12	2,697.66	1,948.34	4,646.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	89.83	1.13	487.28	261.14	317.11	578.25	
W0237	Concrete Curing (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	7.07	0.72	1.68	1.32	9.47		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	345.10	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,222.83	6,533.48	648.64	4,066.27	3,848.68	8,454.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.44	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	26.53	47.49	191.30	134.72	130.60	265.32	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		253.44	760.32	1,520.63	1,140.49	1,393.93	2,534.42	18.0%
Total									1,712.47	11,310.15	3,591.84	8,800.93	7,713.58	15,614.51		
Components (%)						</										

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))	m3	4.05	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	154.83	6,876.67	1,139.50	4,730.24	3,430.76	8,181.00
W0232	Concrete Curving (reinforced concrete)	m3	3.97	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	859.78	460.76	559.83	1,020.29
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	967.00	14.3%	77.9%	7.7%	54.5%	45.5%	24.50	3,426.47	18,447.49	1,817.55	12,907.18	10,784.32	23,691.50
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.47	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	34.70	34.29	344.14	209.26	203.87	413.13
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.78	10.0%	17.3%	72.1%	50.8%	49.2%	603.00	47.03	84.19	339.12	238.83	231.51	470.34
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		608.27	1,824.82	3,649.64	2,737.23	3,345.50	6,062.73
Total									4,452.26	27,270.73	6,152.69	21,205.83	18,569.87	39,875.70	
Components (%)									11.2%	68.4%	20.4%	53.4%	46.6%	100.0%	
Unit Rate									445.23	2,727.07	615.27	2,120.58	1,856.99	3,987.57	

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))	m3	5.13	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	208.73	8,710.45	1,443.36	6,016.97	4,345.63	10,362.60
W0232	Concrete Curving (reinforced concrete)	m3	5.03	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.53	1,089.35	583.78	705.93	1,292.71
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	982.30	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,480.68	18,799.37	1,846.31	13,111.40	10,954.95	24,066.35
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.59	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	43.56	43.04	432.00	262.69	255.92	518.61
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.98	10.0%	17.3%	72.1%	50.8%	49.2%	603.00	59.09	105.78	426.07	300.07	290.87	590.94
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		662.34	1,990.03	3,980.06	2,985.04	3,643.29	6,633.43
Total									4,672.10	29,392.82	6,220.91	23,282.91	20,222.91	43,485.82	
Components (%)									10.7%	68.1%	21.2%	53.5%	46.6%	100.0%	
Unit Rate									467.21	2,939.28	622.10	2,328.29	2,022.91	4,348.58	

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))	m3	7.92	2.0%	84.1%	13.9%	58.1%	41.9%	2,020.00	310.12	12,938.33	2,143.94	8,937.48	6,454.92	15,392.40
W0232	Concrete Curving (reinforced concrete)	m3	7.47	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	1,824.80	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	6,465.99	34,811.76	3,429.85	24,336.80	20,350.80	44,707.60
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.88	8.4%	7.7%	85.4%	51.5%	48.5%	1,070.00	64.97	72.60	804.13	494.48	457.12	941.70
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.46	10.0%	17.3%	72.1%	50.8%	49.2%	603.00	88.04	157.99	634.75	447.04	433.34	860.38
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		1,149.72	3,449.15	6,898.31	5,173.73	6,323.45	11,497.18
Total									8,400.36	51,435.50	15,334.34	40,270.88	35,099.52	75,370.40	
Components (%)									11.1%	68.2%	20.8%	53.4%	46.6%	100.0%	
Unit Rate									840.04	5,143.55	1,533.43	4,027.09	3,509.95	7,537.04	

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

W0341 Precast Concrete Pipe Laying #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	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	168.08	102.84	834.88	520.18	585.62	1,105.80
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		6.55	58.91	65.46	56.91	72.60	139.91
Total									939.93	161.75	800.34	573.06	1,422.03	2,001.11	
Components (%)									46.9%	8.1%	43.0%	28.9%	71.1%	100.0%	
Unit Rate									93.99	16.17	80.03	57.31	142.20	200.11	

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	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	233.00	0.00	0.00	0.00	233.00	233.00
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.96	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	210.84	129.00	1,047.26	652.50	734.50	1,387.10
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		7.99	71.81	79.79	71.81	87.77	159.59
Total									1,111.52	200.81	1,127.05	724.32	1,439.39	2,439.39	
Components (%)									43.6%	8.2%	46.2%	29.7%	70.3%	100.0%	
Unit Rate									111.15	20.08	112.71	72.43	143.94	243.94	

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	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	239.60	0.00	0.00	0.00	239.60	239.60
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	252.86	154.71	1,255.98	782.55	881.00	1,663.55
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		9.81	88.52	98.36	88.52	105.19	196.71
Total									1,409.30	243.23	1,354.34	871.07	2,135.79	3,006.88	
Components (%)									46.9%	8.1%	45.0%	29.0%	71.0%	100.0%	
Unit Rate									140.93	24.32	135.43	87.11	213.58	300.69	

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	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20
L019	Skilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	282.10	0.00	0.00	0.00	282.10	282.10
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.00	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	295.34	291.83	2,928.83	1,780.97	1,735.03	3,516.00
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		16.77	150.91	167.68	150.91	184.45	335.36
Total									1,587.01	442.74	3,096.51	1,931.88	3,194.38	5,126.26	
Components (%)									31.0%	8.6%	60.0%	37.4%	62.6%	100.0%	
Unit Rate									158.70	44.27	309.65	193.19	319.44	512.63	

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	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	722.20	0.00	0.00	0.00	722.20	722.20
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.57	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	337.43	333.41	3,346.19	2,034.75	1,982.28	4,017.03
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		19.30	173.70	193.01	173.70	208.01	38

#0346 Precast Concrete Pipe Laying 48"

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%	566.00	569.40	0.00	0.00	0.00	569.40	569.40		
L019	Skilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	362.70	0.00	0.00	0.00	362.70	362.70		
L020	Unskilled Labor	md	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	783.00	0.00	0.00	0.00	783.00	783.00		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.14	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	319.52	375.00	3,163.54	2,288.54	2,229.52	4,518.06	7.0%	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.61	194.52	195.13	194.52	237.74	432.25		
	Total									2,058.23	569.39	3,973.67	2,483.06	4,124.36	6,507.42		
	Components (%)									31.2%	8.6%	60.2%	37.6%	62.4%	100.0%		
	Unit Rate	m								208.90	56.97	398.12	248.40	412.60	561.00		

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

#0347 Precast Concrete Pipe Laying 60"

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%	566.00	622.60	0.00	0.00	0.00	622.60	622.60		
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30		
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	463.65	517.41	5,738.54	3,457.40	3,262.20	6,719.60	7.0%	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		30.55	274.92	305.46	274.92	336.01	610.93		
	Total									2,502.10	792.33	6,044.00	3,732.31	5,636.11	9,338.43		
	Components (%)									26.8%	8.5%	54.7%	40.0%	60.0%	100.0%		
	Unit Rate	m								250.25	79.25	604.50	373.29	560.71	934.00		

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

#0351 Precast Concrete Pipe Removal 48"

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab	Mat	Equip	For	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	67.92	0.00	0.00	0.00	67.92	67.92		
L019	Skilled Labor	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	48.36	0.00	0.00	0.00	48.36	48.36		
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	113.04	0.00	0.00	0.00	113.04	113.04		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	50.13	30.87	249.00	155.14	174.66	329.50		
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.59	5.89	44.73	25.16	30.75	55.91	10.0%	
	Total									285.04	36.26	293.73	180.30	434.73	515.03		
	Components (%)									46.3%	5.9%	47.8%	29.3%	70.7%	100.0%		
	Unit Rate	m								28.50	3.63	29.37	18.03	43.74	51.50		

Miscellaneous covers the costs for demolition, disposal, etc.

#0352 Precast Concrete Pipe Removal 60"

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	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	84.90	0.00	0.00	0.00	84.90	84.90		
L019	Skilled Labor	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	60.45	0.00	0.00	0.00	60.45	60.45		
L020	Unskilled Labor	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	122.46	0.00	0.00	0.00	122.46	122.46		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	63.40	38.79	314.91	196.21	220.89	417.10		
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		6.85	6.85	54.79	30.82	37.67	68.49	10.0%	
	Total									338.06	45.84	369.70	227.03	526.37	753.40		
	Components (%)									44.9%	6.1%	49.1%	30.1%	69.9%	100.0%		
	Unit Rate	m								52.79	4.85	36.95	22.69	52.51	75.30		

Miscellaneous covers the costs for demolition, disposal, etc.

#0353 Precast Concrete Pipe Removal 72"

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	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	101.88	0.00	0.00	0.00	101.88	101.88		
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	72.54	0.00	0.00	0.00	72.54	72.54		
L020	Unskilled Labor	md	0.54	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	169.56	0.00	0.00	0.00	169.56	169.56		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.03	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	75.93	46.46	377.16	234.99	264.56	499.55		
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.44	8.44	67.48	37.96	46.39	84.35	10.0%	
	Total									428.35	54.89	444.64	272.95	654.93	927.88		
	Components (%)									46.2%	5.9%	47.9%	29.4%	70.6%	100.0%		
	Unit Rate	m								42.84	5.49	44.47	27.30	65.50	92.80		

Miscellaneous covers the costs for demolition, disposal, etc.

#0354 Precast Concrete Pipe Removal 90"

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	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	118.86	0.00	0.00	0.00	118.86	118.86		
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	84.63	0.00	0.00	0.00	84.63	84.63		
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	178.98	0.00	0.00	0.00	178.98	178.98		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	88.60	87.55	878.65	534.29	520.51	1,054.80		
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.37	14.37	114.95	64.68	79.05	142.73	10.0%	
	Total									485.43	101.32	993.63	598.37	982.03	1,381.00		
	Components (%)									30.7%	6.4%	62.8%	37.9%	62.1%	100.0%		
	Unit Rate	m								48.51	10.19	99.30	59.86	98.14	158.00		

Miscellaneous covers the costs for demolition, disposal, etc.

#0355 Precast Concrete Pipe Removal 120"

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	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	135.84	0.00	0.00	0.00	135.84	135.84		
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	96.72	0.00	0.00	0.00	96.72	96.72		
L020	Unskilled Labor	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	216.66	0.00	0.00	0.00	216.66	216.66		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.37	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	101.18	99.95	1,003.12	609.98	594.25	1,204.23		
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		16.53	16.53	132.28	74.41	90.94	165.35	10.0%	
	Total									566.91	116.49	1,135.40	684.39	1,118.80	1,818.80		
	Components (%)									31.2%	6.4%	62.4%	37.6%	62.4%	100.0%		
	Unit Rate	m								56.73	11.66	113.62	68.48	111.52	182.00		

Miscellaneous covers the costs for demolition, disposal, etc.

#0356 Precast Concrete Pipe Removal 120"

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	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	152.82	0.00	0.00	0.00	152.82	152.82		
L019	Skilled Labor	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	108.81	0.00	0.00	0.00	108.81	108.81		
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%											

#0401 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	401.86	0.00	0.00	0.00	401.86	401.86
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26
L020	Unskilled Labor	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	222.94	0.00	0.00	0.00	222.94	222.94
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	4.65	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	299.94	340.85	2,767.66	1,673.31	1,735.14	3,408.45
R0401-040	Crawler Crane, 36-40t	hr	4.65	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	335.50	761.67	7,970.33	4,820.66	4,246.84	9,067.50
R1001-150	Generator 101-150 kW	dav	0.71	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,337.84	1,235.16	1,536.56	1,026.54	2,563.10
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.79	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	204.09	252.33	3,254.28	1,928.14	1,182.56	3,710.70
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									2,936.59	2,692.78	18,217.44	9,958.66	9,988.15	19,946.81	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate									20.32	26.86	181.82	99.35	99.65	199.00	

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

T_c : Construction time per pile = 11.2 min/pile N_{max} : Maximum N-value = 10.00 T : Operation hour per day = 6.36 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

#0402 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	319.06	0.00	0.00	0.00	319.06	319.06
L019	Skilled Labor	md	1.82	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	733.46	0.00	0.00	0.00	733.46	733.46
L020	Unskilled Labor	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	285.74	0.00	0.00	0.00	285.74	285.74
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	5.95	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	383.80	436.14	3,541.42	2,141.11	2,220.24	4,361.35
R0401-040	Crawler Crane, 36-40t	hr	5.95	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	429.29	974.61	10,198.60	5,168.37	5,434.13	11,602.50
R1001-150	Generator 101-150 kW	dav	0.91	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,714.82	1,570.28	1,969.40	1,315.70	3,285.10
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	261.15	322.87	4,164.08	2,467.19	2,280.91	4,748.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									2,668.59	3,448.44	19,474.98	12,746.96	12,785.25	25,531.31	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate									26.05	34.44	194.50	127.30	127.70	255.00	

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

T_c : Construction time per pile = 14.3 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.56 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

#0403 Temporary Sheet Pile Removal for excavation, (Vibro Hammer)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.42	0.00	0.00	0.00	188.42	188.42
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.94	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	254.15	288.80	2,345.07	1,417.81	1,470.21	2,888.02
R0401-040	Crawler Crane, 36-40t	hr	3.94	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	284.27	645.37	6,733.35	4,084.80	3,988.40	7,683.00
R1001-150	Generator 101-150 kW	dav	0.60	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,108.65	1,035.35	1,298.50	867.50	2,166.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.36	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	172.63	213.44	2,752.73	1,630.97	1,507.83	3,138.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,722.65	2,278.26	12,886.50	8,431.89	8,455.53	16,937.42	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate									17.24	22.80	128.96	84.38	84.62	169.00	

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

T_c : Construction time per pile = 9.5 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.56 hr/day
 α : Coefficient = 3.60 K : Coefficient = 1.00 Sheet Pile width = 0.400 m
 γ : Coefficient = 0.00 F : Work factor = 1.00 Sheet Pile length = 10.000 m
 L : Pile pullout length = 7.80 m

#0406 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	Total (PP)	
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	237.72	0.00	0.00	0.00	237.72	237.72
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	338.52	0.00	0.00	0.00	338.52	338.52
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	131.88	0.00	0.00	0.00	131.88	131.88
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.73	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	176.10	200.11	1,624.89	982.39	1,018.70	2,001.09
R0401-040	Crawler Crane, 36-40t	hr	2.73	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	196.97	447.17	4,679.35	2,830.19	2,493.31	5,323.50
R1001-150	Generator 101-150 kW	dav	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	1,516.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.64	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	119.97	148.32	1,912.91	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									1,201.15	1,587.06	8,941.90	5,854.92	5,675.19	11,730.11	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate									11.98	15.83	89.19	58.40	58.60	117.00	

$T_c = (T_s + T_b) / F$

T_c : Construction time per pile = 19.6 min/pile L : Pile Driving length = 6.00 m
 T_s : Preparation time per pile = 10.00 min/pile K : Coefficient = 1.00
 T_b : Driving time per pile = γ · L · N = 5.70 min/pile N_{max} : Maximum N-value = 30.00
 γ : Driving time per unit meter = 0.01 · N_{max} + 0.65 = 0.95 min/m F : Work factor = 0.80
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 12.00 m

#0407 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	Total (PP)	
L002	Foreman	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	203.76	0.00	0.00	0.00	203.76	203.76
L019	Skilled Labor	md	0.72	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	290.16	0.00	0.00	0.00	290.16	290.16
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	113.04	0.00	0.00	0.00	113.04	113.04
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.38	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	153.52	174.45	1,416.57	856.45	888.09	1,744.54
R0401-040	Crawler Crane, 36-40t	hr	2.38	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	171.72	389.84	4,079.44	2,467.35	2,173.65	4,641.00
R1001-150	Generator 101-150 kW	dav	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	1,299.60
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,036.80	1,372.02	7,785.18	5,091.15	5,102.85	10,194.00	
Components (%)									10.2%	13.5%	76.4%	49.8%	50.1%	100.0%	
Unit Rate									10.37	13.73	77.90	50.94	51.06	102.00	

$T_c = (T_s + T_b) / F$

T_c : Construction time per pile = 14.3 min/pile L : Pile Length = 10.00 m
 T_s : Preparation time per pile = 6.00 min/pile K : Coefficient = 1.00
 T_b : Driving time per pile = γ · L · N = 6.83 min/pile N_{max} : Maximum N-value = 30.00
 γ : Driving time per unit meter = 0.01 · N_{max} + 0.65 = 0.65 min/m F : Work factor = 0.90
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 10.00 m

#0411 Temporary Struts & Supports Installation

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													

R0412 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	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	366.00	0.00	0.00	0.00	366.00	566.00	
L019	Skilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	806.00	0.00	0.00	0.00	806.00	806.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	628.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	8.43	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	431.60	416.58	4,180.90	2,542.33	2,476.76	5,019.09	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.0%	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%	55.0%	45.0%		0.00	338.36	413.55	413.55	338.36	751.91	10.0%
	Total								2,921.60	754.94	4,594.43	2,955.88	5,313.12	8,271.00		
	Components (%)								35.3%	9.1%	65.5%	35.7%	64.3%	100.0%		
	Unit Rate								292.16	75.49	459.44	295.59	531.43	827.00		

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

R0413 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	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,830.00	0.00	0.00	0.00	2,830.00	2,830.00	
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,030.00	0.00	0.00	0.00	4,030.00	4,030.00	
L009	Welder	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	2,500.00	0.00	0.00	0.00	2,500.00	2,500.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	28.55	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	2,108.02	2,082.92	20,904.51	12,711.65	12,983.80	25,695.45	
R0901-025	Welding Machine 250A	day	5.00	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.58	2,940.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	1,402.76	1,714.48	1,714.48	1,402.76	3,117.24	8.0%
	Total								13,038.02	4,655.80	24,368.81	16,148.55	25,324.14	47,082.69		
	Components (%)								31.0%	11.1%	58.0%	38.4%	61.6%	100.0%		
	Unit Rate								1,303.80	465.77	2,436.88	1,614.85	2,532.41	4,708.27		

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

R0414 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	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,641.40	0.00	0.00	0.00	1,641.40	1,641.40	
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,337.40	0.00	0.00	0.00	2,337.40	2,337.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00		
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	910.60	0.00	0.00	0.00	910.60	910.60	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	1,222.72	1,208.17	12,125.35	7,373.20	7,183.04	14,556.24	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.0%	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%	55.0%	45.0%		0.00	787.55	962.56	962.56	787.55	1,750.11	9.0%
	Total								6,112.12	1,995.72	13,057.91	8,335.76	12,839.98	21,185.75		
	Components (%)								28.8%	9.4%	61.7%	39.3%	60.7%	100.0%		
	Unit Rate								611.34	199.51	1,305.65	833.74	1,283.26	2,120.00		

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

R0415 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	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	3.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,329.90	0.00	0.00	0.00	1,329.90	1,329.90	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00		
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	345.40	0.00	0.00	0.00	345.40	345.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	6.28	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	463.69	458.17	4,398.26	2,796.12	2,724.00	5,520.12	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.0%	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%	55.0%	45.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								2,761.59	458.17	4,598.26	2,796.12	5,021.90	7,818.02		
	Components (%)								35.3%	5.9%	58.8%	35.8%	64.2%	100.0%		
	Unit Rate								27.62	45.82	45.99	27.97	50.23	78.20		

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

R0416 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	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	725.40	0.00	0.00	0.00	725.40	725.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00		
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.43	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	293.26	230.24	2,511.47	1,527.18	1,487.79	3,014.97	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.03	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								1,506.66	250.24	2,511.47	1,527.18	2,741.19	4,268.37		
	Components (%)								35.3%	5.9%	58.8%	35.8%	64.2%	100.0%		
	Unit Rate								15.07	2.50	25.12	15.28	27.42	42.70		

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

R0417 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	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L019	Skilled Labor	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,571.70	0.00	0.00	0.00	1,571.70	1,571.70	
L009	Welder	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,300.00	0.00	0.00	0.00	1,300.00	1,300.00	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	7.42	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	647.86	541.34	5,432.98	3,303.69	3,218.49	6,522.18	
R0901-025	Welding Machine 250A	day	1.30	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	304.23	460.17	447.53	316.57	764.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	339.07	794.18	821.63	509.60	1,130.23	10.0%
	Total								4,587.56	1,184.64	6,684.30	4,373.15	8,059.36	12,432.51		
	Components (%)								36.7%	9.3%	53.8%	35.2%	64.8%	100.0%		
	Unit Rate								455.16	118.15	666.68	436.17	803.83	1,240.00		

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

R0418 Temporary Deck Plate Support Beam Removal

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

#0422 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%	566.00	569.40	0.00	0.00	0.00	569.40	569.40
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	411.00	0.00	0.00	0.00	411.00	
R0401-025	Crawler Crane, 21-25t	hr	4.66	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	314.40	591.57	6,353.53	3,833.41	3,456.19	7,269.50
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	35.0%	45.0%	0.00	250.17	383.74	458.65	375.26	823.91	
Total									2,330.50	821.74	6,937.37	4,292.06	5,807.55	10,099.61	
Components (%)									23.1%	8.2%	88.7%	42.5%	57.5%	100.0%	
Unit Rate									238.06	83.18	693.76	429.22	580.78	1,010.00	

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

#0423 Temporary Access Bridge Railing 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%	566.00	622.60	0.00	0.00	0.00	622.60	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	886.60	0.00	0.00	0.00	886.60	
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,450.00	0.00	0.00	0.00	1,450.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	
R0401-025	Crawler Crane, 21-25t	hr	4.07	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	292.06	507.94	5,549.20	3,348.06	3,001.14	6,349.20
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	35.0%	45.0%	0.00	207.35	483.81	380.13	311.02	691.15	
Total									3,816.46	715.28	6,353.01	3,728.20	6,836.56	10,564.75	
Components (%)									30.1%	6.8%	57.1%	35.3%	64.7%	100.0%	
Unit Rate									38.29	7.18	60.53	37.41	68.59	106.00	

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

#0424 Temporary Access Bridge Railing 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	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	803.00	0.00	0.00	0.00	803.00	
L009	Welder	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,000.00	0.00	0.00	0.00	1,000.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	
R0401-025	Crawler Crane, 21-25t	hr	2.33	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	167.20	290.78	3,176.82	1,916.70	1,718.10	3,634.90
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	35.0%	45.0%	0.00	15.90	39.44	30.99	25.36	56.35	
Total									2,167.20	307.69	3,216.26	1,947.70	3,743.43	5,691.15	
Components (%)									38.1%	5.4%	56.3%	34.2%	65.8%	100.0%	
Unit Rate									21.67	3.08	32.16	19.47	37.43	56.90	

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

#0431 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%	566.00	113.20	0.00	0.00	0.00	113.20	
L020	Unskilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	879.20	0.00	0.00	0.00	879.20	
R0402-005	Truck Crane, Hydraulic 2-5t	hr	4.57	17.9%	10.9%	71.2%	45.7%	54.3%	412.00	317.03	205.23	1,340.59	860.85	1,021.99	1,882.84
	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									1,339.43	205.23	1,340.59	860.85	2,014.39	2,875.24	
Components (%)									48.2%	7.1%	45.8%	29.9%	70.1%	100.0%	
Unit Rate									1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	

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

#0432 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%	403.00	96.72	0.00	0.00	0.00	96.72	
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%	193.00	0.00	54.02	140.99	103.62	91.38	193.00
R1001-015	Generator 11-15 kW	md	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	0.00	5.87	5.87	5.87	11.75	
Total									96.72	246.20	843.55	609.15	377.32	1,166.47	
Components (%)									8.2%	20.8%	71.1%	31.3%	46.7%	100.0%	
Unit Rate									97.01	246.93	846.06	610.96	379.94	1,190.00	

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

#0441 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%	566.00	532.04	0.00	0.00	0.00	532.04	
L019	Skilled Labor	md	3.74	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,507.22	0.00	0.00	0.00	1,507.22	
L020	Unskilled Labor	md	2.97	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	932.58	0.00	0.00	0.00	932.58	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.80	5.3%	6.8%	87.7%	52.0%	48.0%	1,330.00	117.04	144.70	1,966.26	1,105.74	1,023.26	2,128.26
	Miscellaneous	LS	1.00	0.0%	3.0%	40.0%	55.0%	50.0%	0.00	7.65	61.20	84.13	76.50	153.00	
Total									3,096.57	205.92	1,940.49	1,182.24	4,070.60	5,252.84	
Components (%)									59.9%	3.9%	37.1%	22.5%	77.5%	100.0%	
Unit Rate									30.95	2.06	19.49	11.82	40.68	52.50	

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

#0442 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)	
M05062	Temporary Frame Support (Portal 1219x1700)	day	17.58	0.0%	100.0%	0.0%	50.0%	50.0%	1.65	0.00	29.01	0.00	14.51	14.51	29.01
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.59	0.00	41.50	0.00	20.75	20.75	41.50
	Miscellaneous	LS	1.00	0.0%	0.0%	50.0%	50.0%	50.0%	0.00	0.00	2.82	2.82	2.82	5.64	
Total									0.00	73.33	2.82	38.08	38.08	76.15	
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.

#0451 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%	566.00	237.72	0.00	0.00	0.00	237.72	
L019	Skilled Labor	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	358.52	0.00	0.00	0.00	358.52	
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	131.88	0.00	0.00	0.00	131.88	
R0303-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.78	8.0%	10.0%	81.2%	49.1%	50.9%	733.00	179.32	203.77	1,634.64	1,000.39	1,037.35	2,037.74
R0401-040	Crawler Crane, 36-40t	hr	2.78	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	200.58	455.36	4,765.06	2,882.03	2,538.97	4,421.00
R1001-200	Generator 151-200 kW	day	0.42	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,055.58	1,162			

#0452 Temporary Sheet Pile Removal for Cofferdam (Vibro Hammer)

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	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	147.16	0.00	0.00	0.00	147.16	147.16	
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	209.56	0.00	0.00	0.00	209.56	209.56	
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	81.64	0.00	0.00	0.00	81.64	81.64	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.71	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	110.30	125.34	1,017.79	615.35	639.08	1,253.43	
R0401-040	Crawler Crane, 36-40t	hr	1.71	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	123.38	280.10	2,931.03	1,772.76	1,561.74	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	719.35	815.73	557.07	1,372.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	75.34	93.15	1,201.40	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										747.48	1,152.03	5,869.56	3,915.65	3,853.34	7,768.99	
Components (%)										9.2%	14.8%	75.6%	50.4%	49.6%	100.0%	
Unit Rate										7.47	11.52	59.70	39.16	38.54	77.70	

Tc = (0.75 + y * Nmax) / L + a) / K/P
 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
 P : Work factor = 1.00
 T : Operation hour per day = 6.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 15.000 m

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.27	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	210.93	239.69	1,946.29	1,176.71	1,220.20	2,396.91	
R0401-040	Crawler Crane, 36-40t	hr	3.27	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	235.93	535.63	5,604.94	3,390.01	2,986.49	6,376.50	
R1001-200	Generator 151-200 kW	day	0.50	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,256.64	1,383.36	1,568.71	1,071.29	2,640.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.96	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	143.37	177.26	2,286.16	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										1,433.23	2,209.22	11,270.76	7,489.97	7,373.24	14,863.21	
Components (%)										2.6%	14.9%	75.5%	50.4%	49.6%	100.0%	
Unit Rate										14.37	22.15	112.49	75.05	73.91	149.08	

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 = 6.56 hr/day
 Pile Length = 15.00 m

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

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	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	164.14	0.00	0.00	0.00	164.14	164.14	
L019	Skilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	233.74	0.00	0.00	0.00	233.74	233.74	
L020	Unskilled Labor	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	91.06	0.00	0.00	0.00	91.06	91.06	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.88	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	121.27	137.80	1,118.97	676.52	701.52	1,378.04	
R0401-040	Crawler Crane, 36-40t	hr	1.88	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	135.64	307.94	3,222.41	1,949.00	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	621.35	1,531.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.13	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	82.66	102.20	1,218.04	780.93	721.97	1,502.90	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
Total										828.51	1,276.80	6,461.77	4,316.30	4,250.78	8,567.08	
Components (%)										9.7%	14.9%	75.4%	50.4%	49.6%	100.0%	
Unit Rate										8.29	12.77	64.64	45.18	42.32	85.70	

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 = 0.90
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 15.00 m

#0501 Ground Assembly of Structural Steel Bridge Members

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	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	22.64	0.00	0.00	0.00	22.64	22.64	
L019	Skilled Labor	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	92.69	0.00	0.00	0.00	92.69	92.69	
L020	Unskilled Labor	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	12.56	0.00	0.00	0.00	12.56	12.56	
R0402-100	Truck Crane, Hydraulic 91-100t	hr	0.22	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	16.67	28.89	1,065.45	597.26	513.74	1,111.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	9.91	14.87	12.39	12.39	24.78	
Total										144.56	38.80	1,080.32	609.65	644.01	1,263.87	
Components (%)										11.4%	3.1%	85.5%	48.2%	51.8%	100.0%	
Unit Rate										144.14	38.88	1,071.18	607.88	652.12	1,260.00	

Miscellaneous covers the cost for generator, fuel, etc.
 y = G / [0.038 * a * (G+23)]
 y : Work capacity = 25.82 t/day
 G : Assembled weight = 1196.0 t
 a : coefficient = 1.00

#0502 Erection of Structural Steel Bridge Members

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	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	209.42	0.00	0.00	0.00	209.42	209.42	
L019	Skilled Labor	md	2.25	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	906.75	0.00	0.00	0.00	906.75	906.75	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	162.11	280.98	10,363.91	5,809.76	4,997.24	10,807.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	337.10	505.65	421.38	421.38	842.75	
Total										1,394.46	618.08	10,869.57	6,231.33	6,530.97	12,882.10	
Components (%)										10.8%	4.8%	84.4%	48.4%	51.6%	100.0%	
Unit Rate										139.64	61.89	1,083.47	623.98	656.02	1,290.00	

Miscellaneous covers the cost for generator, fuel, etc.
 y = W / [0.47 * a1 * (n+4)] ≥ 9.0 t/day
 y : Work capacity = 26.7 t/day
 a1 : Coefficient = 0.4 * √(0.75 * W/n)
 W : Total weight of steel members = 1708 t
 n : number of members to be erected = 81

#0503 Bolting of Structural Steel Bridge Members

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%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L019	Skilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	141.05	0.00	0.00	0.00	141.05	141.05	
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84	
M02071	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	
M02072	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	
M02073	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	
M02074	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	67.15	100.72	83.94	83.94	167.87	
Total										193.85	4,070.15	100.72	2,866.04	1,476.69	4,354.72	
Components (%)										4.4%	93.0%	2.3%	86.1%	13.9%	100.0%	
Unit Rate										19.38	406.66	10.07	286.60	147.67	435.47	

Miscellaneous covers the cost for generator, fuel, etc.
 Q = 0.02 * N * 1420 ≤ 1700
 Q : Work capacity = 1700.0 each/day
 N : Total number of bolts = 27326

W0504 Finish Painting of Structural Steel Bridge Members

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	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L010	Painter	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	4,224.00	0.00	0.00	0.00	4,224.00	4,224.00	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70	765.70	
M0620	Silicon Alkvd Resin Paint for Steel	kg	12.35	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%
M0620	Silicon Alkvd Resin Paint for Steel	kg	11.33	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	2,832.50	0.00	1,841.13	991.37	2,832.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		5,555.70	6,432.00	1,205.21	4,795.53	8,403.33	11,999.93	15.0%
Total																
Components (%)																
Unit Rate																

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

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80	62.80	
M05041	Temporary Steel Shapes Depreciation	t-d	444.00	0.0%	100.0%	0.0%	30.0%	50.0%	31.30	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	9.51	11.76	151.63	89.84	83.06	172.90	
W0202	Concrete (Class B, 17MPa, max szx 50mm)	m3	0.53	3.0%	75.5%	21.5%	56.1%	45.9%	1,400.00	22.39	960.34	159.27	416.20	325.80	742.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.52	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	0.22	89.72	48.09	62.67	110.76		
W0236	Concrete Curbing (plain concrete)	m3	0.52	70.9%	8.7%	20.4%	16.0%	34.0%	8.65	3.26	0.40	0.94	0.74	3.85	4.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		45.64	139.92	279.84	233.20	233.20	466.40	3.0%
Total																
Components (%)																
Unit Rate																

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

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	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,500.00	0.00	0.00	0.00	1,500.00	1,500.00	
L019	Skilled Labor	md	11.98	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,827.94	0.00	0.00	0.00	4,827.94	4,827.94	
R0901-050	Welding Machine 500A	day	2.00	0.0%	80.4%	39.6%	60.6%	59.4%	1,470.00	0.00	1,864.55	1,222.45	1,871.85	1,215.15	3,087.00	
R1001-150	Generator 101-150 kW	day	3.00	0.0%	52.2%	47.6%	59.9%	40.1%	3,610.00	0.00	5,653.26	5,176.74	6,492.52	4,337.48	10,830.00	
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m ³ /min)	day	3.00	0.0%	27.6%	72.2%	57.2%	42.8%	2,090.00	0.00	1,743.06	4,526.94	3,588.45	2,681.55	6,270.00	
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	50.0%	50.0%		114.93	1,532.38	2,183.64	1,915.49	1,915.48	3,830.95	14.0%
Total																
Components (%)																
Unit Rate																

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

W0521 Precast PC Girder Fabrication Base Construction & Removal

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	3.23	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,856.48	0.00	0.00	0.00	1,856.48	1,856.48	
L019	Skilled Labor	md	9.84	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,965.52	0.00	0.00	0.00	3,965.52	3,965.52	
L020	Unskilled Labor	md	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,609.20	0.00	0.00	0.00	5,609.20	5,609.20	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	314.00	12,874.00	0.00	0.00	0.00	12,874.00	12,874.00	
Total																
Components (%)																
Unit Rate																

Miscellaneous covers the cost for lumber, plywood, nail, etc.
 Total number of girders = 88 Maximum Girder Length = 40,000 m Number of bases = 4

W0522 Precast PC Girder Fabrication Base Maintenance

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)
L005	Carpenter	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	364.08	0.00	0.00	0.00	364.08	364.08	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	128.74	0.00	0.00	0.00	128.74	128.74	
	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																
Components (%)																
Unit Rate																

Base Length = 41,000 m

W0535 PC Strand (8-T12.7, 150t) Installation for Precast PC Girder

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%	566.00	905.60	0.00	0.00	0.00	905.60	905.60	
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,780.70	0.00	0.00	0.00	2,780.70	2,780.70	
L020	Unskilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,821.20	0.00	0.00	0.00	1,821.20	1,821.20	
M09306	PC Strand, T12.7	kg	655.35	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	74,167.55	0.00	51,917.29	22,250.27	74,167.55	Loss 6.0%
M09331	PC Sheath, ø60	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	115.00	0.00	12,075.00	0.00	7,848.75	4,226.25	12,075.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.23	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	6.71	676.65	15.14	429.51	271.69	701.50	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	739.67	184.90	508.48	416.03	924.52	1.0%
Total																
Components (%)																
Unit Rate																

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

W0536 PC Strand (10-T12.7, 190t) Installation for Precast PC Girder

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	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	962.20	962.20	
L019	Skilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,022.50	0.00	0.00	0.00	3,022.50	3,022.50	
L020	Unskilled Labor	md	6.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,978.20	0.00	0.00	0.00	1,978.20	1,978.20	
M09306	PC Strand, T12.7	kg	820.44	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	92,709.72	0.00	64,896.80	27,812.92	92,709.72	Loss 5.0%
M09332	PC Sheath, ø65	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	123.00	0.00	12,915.00	0.00	8,594.75	4,320.25	12,915.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.27	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	7.88	794.32	21.30	504.56	318.94	823.50	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	899.29	224.82	618.26	505.85	1,124.11	1.0%
Total																
Components (%)																
Unit Rate																

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

W0537 PC Strand (12-T12.7, 225t) Installation for Precast PC Girder

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	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,018.80	0.00	0.00	0.00	1,018.80	1,018.80	
L019	Skilled Labor	md	8.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,264.30	0.00	0.00	0.00	3,264.30	3,264.30	
L020	Unskilled Labor	md	6.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,155.20	0.00	0.00	0.00	2,155.20	2,155.20	
M09306	PC Strand, T12.7	kg	984.55	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	111,251.89	0.00	77,676.32	33,575.57	111,251.89	Loss 5.0%
M09333	PC Sheath, ø70															

#0538 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%	366.00	509.40	0.00	0.00	0.00	509.40	509.40	
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	846.30	0.00	0.00	0.00	846.30	846.30	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
M09307	PC Strand, T15.2	kg	116.71	0.0%	100.0%	0.0%	0.0%	0.0%	119.00	0.00	13,988.49	0.00	9,721.94	4,156.35	13,988.49	
M09322	PC Sheath, 4.28	m	106.00	0.0%	100.0%	0.0%	0.0%	65.0%	33.00	0.00	5,533.20	0.00	3,596.58	5,533.20	Loss 6.0%	
#0225	Grout (non-shrink)	m3	0.05	1.0%	96.5%	2.6%	81.5%	38.7%	3,050.00	1.46	147.10	3.94	93.44	59.06	152.50	
#0225	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	170.70	42.68	117.36	96.02	213.38	1.0%
Total									1,765.36	19,739.49	46.82	13,529.32	8,022.15	21,551.47		
Components (%)									8.2%	97.6%	0.2%	62.8%	37.2%	100.0%		
Unit Rate									17.69	197.84	0.47	135.60	80.40	216.00		

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

#0546 PC Strand (8-T12.7, 150t) 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%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,095.60	0.00	0.00	0.00	2,095.60	2,095.60	
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,381.60	0.00	0.00	0.00	1,381.60	1,381.60	
M09345	PC Anchorage, 130, 150t 8T13H (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00	0.00	57,900.00	0.00	43,425.00	14,475.00	57,900.00	
M09365	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 cab. 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	
#0225	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	2,263.96	570.84	1,569.81	1,284.39	2,854.20	2.0%
Total									4,326.20	139,683.36	1,554.84	105,153.97	40,410.44	145,364.40		
Components (%)									3.0%	96.0%	1.1%	72.2%	27.8%	100.0%		
Unit Rate									433.91	14,010.14	155.95	10,546.86	4,053.14	14,600.00		

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

#0546 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%	566.00	905.60	0.00	0.00	0.00	905.60	905.60	
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,256.80	0.00	0.00	0.00	2,256.80	2,256.80	
L020	Unskilled Labor	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,507.20	0.00	0.00	0.00	1,507.20	1,507.20	
M09346	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	
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	106,000.00	0.00	79,500.00	26,500.00	106,000.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cab. 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	
#0225	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,073.91	769.48	2,113.31	1,728.07	3,842.38	2.0%
Total									1,669.60	189,473.91	1,819.08	142,483.08	53,478.51	195,961.53		
Components (%)									2.4%	96.7%	0.9%	72.7%	27.3%	100.0%		
Unit Rate									166.96	18,951.11	181.91	14,251.10	5,348.90	19,600.00		

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

#0547 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%	566.00	962.20	0.00	0.00	0.00	962.20	962.20	
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,256.80	0.00	0.00	0.00	2,256.80	2,256.80	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
M09346	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	
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	106,000.00	0.00	79,500.00	26,500.00	106,000.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cab. 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	509.82	1,115.20	
#0225	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,077.87	769.47	2,116.04	1,731.20	3,847.34	2.0%
Total									4,351.80	189,477.87	1,884.67	142,521.41	53,662.93	196,214.34		
Components (%)									2.3%	96.6%	1.0%	72.6%	27.4%	100.0%		
Unit Rate									435.18	18,951.09	188.25	14,251.09	5,363.43	19,600.00		

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

#0548 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%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	523.90	0.00	0.00	0.00	523.90	523.90	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	231.20	0.00	0.00	0.00	231.20	231.20	
M09348	PC Anchorage 30t (T15.2 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	828.00	0.00	8,280.00	0.00	6,210.00	2,070.00	8,280.00	
M09368	PC Anchorage 30t (T15.2 (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 cab. 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	
#0225	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	323.90	80.98	222.68	182.20	404.88	2.0%
Total									1,001.50	19,303.90	34.38	14,600.12	6,048.65	20,648.78		
Components (%)									4.9%	95.5%	1.7%	70.7%	29.3%	100.0%		
Unit Rate									99.91	1,925.83	34.26	1,456.56	602.44	2,060.00		

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

#0549 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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M0206	Concrete (Class A42, 28MPa, max agg. 20mm)	m3	10.20	2.2%	82.7%	15.1%	57.8%	42.2%	1,860.00	414.16	15,685.93	2,871.91	10,970.58	8,001.42	18,972.00	Loss 2.0%
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.54	5.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	113.70	126.88	1,407.22	847.83	799.97	1,847.80	
#0225	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									1,277.46	15,812.81	4,279.13	11,818.11	9,550.99	21,369.40		
Components (%)									5.0%	74.0%	20.0%	55.3%	44.7%	100.0%		
Unit Rate									127.93	1,583.35	428.33	1,183.33	956.47	2,140.00		

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

#0551 Precast PC Girder Erection (W < 12.5)

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	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	5

#0553 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	nd	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00	
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	16,426.07	9,409.51	12,417.29	17,586.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.80		
Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%		
Unit Rate									46.56	7.38	164.06	93.99	124.02	218.00		

Work Capacity = 100 t/day

#0554 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	nd	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00	
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	16,426.07	9,409.51	17,586.80		
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.80		
Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%		
Unit Rate									42.29	6.70	149.01	85.36	112.64	198.00		

Work Capacity = 110 t/day

#0555 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
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	16,351.57	35,175.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									6,204.17	1,477.29	32,852.14	18,819.03	21,714.57	40,535.60		
Components (%)									15.3%	3.6%	81.0%	46.4%	53.6%	100.0%		
Unit Rate									32.60	7.76	172.63	98.89	114.11	213.00		

Work Capacity = 190 t/day

#0556 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-120	Truck Crane, Hydraulic 101-120t	hr	11.42	1.1%	1.9%	97.0%	53.9%	46.1%	6,960.00	874.32	1,510.18	77,098.70	42,853.75	36,629.45	79,483.20	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									6,234.32	1,510.18	77,098.70	42,853.75	41,989.45	84,943.20		
Components (%)									7.3%	1.8%	90.9%	50.3%	49.5%	100.0%		
Unit Rate									27.70	6.71	342.59	190.42	186.58	377.00		

Work Capacity = 225 t/day

#0557 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-140	Truck Crane, Hydraulic 121-140t	hr	11.42	0.9%	1.9%	97.2%	54.0%	46.0%	8,240.00	845.91	1,767.92	91,465.98	50,842.72	43,258.09	94,100.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									6,206.91	1,767.92	91,465.98	50,842.72	48,616.08	99,460.80		
Components (%)									6.2%	1.6%	92.0%	51.1%	49.9%	100.0%		
Unit Rate									26.40	7.60	389.00	216.23	206.77	423.00		

Work Capacity = 235 t/day

#0558 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	nd	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-160	Truck Crane, Hydraulic 141-160t	hr	11.42	0.8%	1.9%	97.3%	54.1%	45.9%	8,950.00	817.67	1,941.97	99,449.36	55,294.14	46,914.85	102,209.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									6,177.67	1,941.97	99,449.36	55,294.14	52,274.86	107,559.00		
Components (%)									5.7%	1.8%	92.5%	51.4%	49.8%	100.0%		
Unit Rate									24.69	7.76	397.54	221.03	208.97	430.00		

Work Capacity = 250 t/day

#0601 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max size 30mm)	m3	10.73	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	444.48	13,943.64	3,101.78	9,915.75	7,574.15	17,489.90	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.52	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	420.02	5.30	2,278.32	1,220.95	1,482.69	2,703.64	
W0237	Concrete Curing (reinforced concrete)	m3	10.52	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	33.65	3.37	7.87	6.18	38.11	44.29	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	262.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	929.22	4,711.64	477.72	3,303.72	2,814.86	6,118.58	
R0402-013	Truck Crane, Hydraulic 11-15t	hr	1.80	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	118.14	116.73	1,171.53	712.39	694.01	1,406.40	
L002	Foreman	nd	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40		
L020	Unskilled Labor	nd	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80		
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	2.0%	
Total									4,370.11	19,082.36	301.88	7,339.10	15,491.06	15,300.77	30,791.77	
Components (%)									14.2%	62.0%	23.8%	50.3%	49.7%	100.0%		
Unit Rate									437.13	1,908.77	794.11	1,549.52	1,530.48	3,080.00		

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

Concrete = 1.052 m3/each

#0602 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	Labor		Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa,															

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)	
W0203	Concrete (Class A, 21MPa, max axz. 35mm)	m3	10.09	2.5%	79.7%	17.7%	36.7%	43.3%	1,630.00	417.97	13,111.96	2,916.77	9,324.32	7,122.38	16,446.70
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.89	15.8%	0.2%	84.3%	45.2%	54.8%	257.00	394.86	4.98	2,141.88	1,147.64	1,939.89	2,541.73
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.07	3.17	7.40	5.81	35.63	41.64
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	838.28	4,250.52	430.97	2,980.40	2,539.37	5,519.77
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	118.14	116.73	1,171.53	712.39	699.01	1,406.40
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80
L020	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	283.81	283.81	312.20	255.43	567.63	2.0%
Total									4,225.52	17,771.16	6,850.37	14,482.94	14,466.13	28,949.07	
Components (%)									14.6%	61.4%	24.0%	50.0%	50.0%	100.0%	
Unit Rate									421.84	1,774.11	694.06	1,445.84	1,444.16	2,890.00	
Miscellaneous covers the cost for mould forms, cart, minor tools, etc.											Concrete = 0.989 m3/each				

W0611 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%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L019	Skilled Labor	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	
R0129	Gravel/Stone, transported	m3	113.00	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	2,384.81	4,132.37	15,430.83	9,944.24	12,203.75	22,148.00
R0102-051	Backhoe, hydraulic, crawler, 0.61m3	hr	8.70	4.4%	8.4%	87.2%	52.8%	47.1%	1,740.00	656.07	1,271.59	13,209.34	8,004.77	7,131.23	15,138.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	
L020	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									3,722.00	5,404.15	28,691.16	17,949.01	19,808.39	37,757.40	
Components (%)									9.9%	14.3%	75.8%	47.9%	52.5%	100.0%	
Unit Rate									37.26	54.10	286.63	179.69	198.31	378.00	
Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.											Provided days = 74.0 days				

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%	566.00	226.40	0.00	0.00	0.00	226.40	226.40
L005	Carpenter	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	177.60	0.00	0.00	0.00	177.60	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	523.90	0.00	0.00	0.00	523.90	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	
W0442	Temporary Frame Support Depreciation	m3-d	740.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	543.00	20.88	281.94	281.94	563.88
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.8%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	1,181.76	1,092.34	2,274.30
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	52.44	52.44	61.74	41.74	83.49	
Total									1,461.19	758.09	2,040.49	1,505.44	2,732.32	4,257.77	
Components (%)									34.3%	17.3%	47.9%	35.4%	64.6%	100.0%	
Unit Rate									146.20	75.85	204.16	150.62	275.38	426.00	
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%	566.00	226.40	0.00	0.00	0.00	226.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	88.80	0.00	0.00	0.00	88.80	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	
W05041	Temporary Steel Shales Depreciation	t-d	74.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	2,316.20	0.00	1,158.10	1,158.10	2,316.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.8%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	1,181.76	1,092.34	2,274.30
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	1,909.80	3,497.28	2,434.34	3,073.32	4,768.80	7,841.52
Total									1,909.80	3,497.28	2,434.34	3,073.32	4,768.80	7,841.52	
Components (%)									24.4%	44.5%	51.0%	35.2%	60.9%	100.0%	
Unit Rate									1,909.80	3,497.28	2,434.34	3,073.32	4,768.80	7,841.52	
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%	566.00	56.60	0.00	0.00	0.00	56.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	
W0442	Temporary Frame Support Depreciation	m3-d	570.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	418.25	18.09	217.17	217.17	434.34
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.3%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	758.10
L020	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	48.25	48.25	56.82	33.04	66.08	
Total									301.20	518.08	700.76	644.13	1,073.89	1,718.02	
Components (%)									29.2%	30.9%	40.8%	37.3%	52.2%	100.0%	
Unit Rate									301.20	518.08	700.76	644.13	1,073.89	1,718.02	
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%	566.00	226.40	0.00	0.00	0.00	226.40	
L005	Carpenter	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	0.00	0.00	0.00	0.00	0.00	
L019	Skilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,047.80	0.00	0.00	0.00	1,047.80	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	
W05041	Temporary Steel Shales 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	3.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	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	1,203.66	516.85	859.76	859.76	1,719.51	
Total									2,049.61	2,432.62	3,851.79	3,321.42	5,011.59	9,353.01	
Components (%)									24.0%	29.2%	46.2%	46.1%	60.1%	100.0%	
Unit Rate									2,049.61	2,432.62	3,851.79	3,321.42	5,011.59	9,353.01	
Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.											Provided days = 31.0 days				

W0655 Temporary External & Internal Support at Center Connection 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%	566.00	56.60	0.00	0.00	0.00	56.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	
W0442	Temporary Frame Support Depreciation	m3-d	310.00	0.0%	96.3%	3.7%	50.0%								

W0657 Temporary External & Internal Support at Side Span for Cantilever Construction											Unit: 10.00 v-m3		Remarks		
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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L005	Carpeniter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	44.40
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00
W0442	Temporary Frame Support Deterioration	m3-d	550.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.75	0.00	388.90	14.96	201.93	201.93	403.86
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	31.35	664.85	393.92	664.18	758.10
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	45.40	19.46	32.43	32.43	64.86
Total									501.20	485.85	999.27	628.28	1,058.04	1,686.32	
Components (%)									29.7%	28.8%	41.5%	37.3%	62.7%	100.0%	
Unit Rate				v-m3					50.12	48.59	99.93	62.83	105.80	168.63	

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

W0661 Assembly & Dismassembly of Form Traveler											Unit: 1.00 set		Remarks		
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%	566.00	8,376.80	0.00	0.00	0.00	8,376.80	8,376.80
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	36,673.00	0.00	0.00	0.00	36,673.00	36,673.00
L020	Unskilled Labor	md	85.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	26,941.20	0.00	0.00	0.00	26,941.20	26,941.20
R0402-045	Truck Crane, Hydraulic 41-45t	hr	85.65	3.3%	5.0%	91.7%	53.1%	46.9%	2,240.00	6,331.25	9,592.80	175,951.95	101,824.89	90,001.11	191,856.00
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	49,867.05	21,371.61	35,819.35	35,819.35	71,238.69
Total									78,322.25	59,459.85	197,303.56	137,444.24	137,841.45	335,083.69	
Components (%)									23.4%	17.7%	35.2%	41.0%	55.0%	100.0%	
Unit Rate				set					78,302.22	59,444.68	197,253.10	137,409.99	137,800.91	335,000.00	

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

W0662 Form Traveler Shifting											Unit: 1.00 time		Remarks		
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%	566.00	509.40	0.00	0.00	0.00	509.40	509.40
L019	Skilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	564.20	0.00	0.00	0.00	564.20	564.20
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	176.99	221.24	221.24	442.48	442.48
Total									1,638.80	265.49	176.99	221.24	221.24	2,087.28	
Components (%)									78.7%	12.8%	8.5%	10.6%	89.4%	100.0%	
Unit Rate				time					1,637.80	265.32	176.99	221.10	221.00	2,086.00	

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

W0663 Form Traveler Lifting											Unit: 1.00 time		Remarks		
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%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	md	5.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,216.50	0.00	0.00	0.00	2,216.50	2,216.50
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00
	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									4,980.50	0.00	0.00	0.00	0.00	4,980.50	
Components (%)									100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Unit Rate				time					4,980.00	0.00	0.00	0.00	0.00	4,980.00	

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

W0664 Form Traveler Pulling Back											Unit: 10.00 m		Remarks		
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%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	564.20	0.00	0.00	0.00	564.20	564.20
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80
	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	
Total									1,443.40	0.00	0.00	0.00	0.00	1,443.40	
Components (%)									100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Unit Rate				m					144.34	0.00	0.00	0.00	0.00	144.34	

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

W0671 PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)											Unit: 1.00 t		Remarks		
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%	566.00	2,490.40	0.00	0.00	0.00	2,490.40	2,490.40
L019	Skilled Labor	md	23.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	9,389.90	0.00	0.00	0.00	9,389.90	9,389.90
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	5,432.20	0.00	0.00	0.00	5,432.20	5,432.20
W09306	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
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	250.90	310.21	4,000.79	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	9,065.98	2,286.47	6,232.79	5,999.56	11,332.35
Total									17,553.40	129,156.09	6,232.79	92,449.23	60,537.53	152,988.75	
Components (%)									100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Unit Rate				t					17,584.91	129,167.28	6,267.80	92,457.23	60,542.77	153,000.00	

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)											Unit: 10.00 each		Remarks		
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%	403.00	1,209.00	0.00	0.00	0.00	1,209.00	1,209.00
W09366	PC Anchorage 195.225t 12T13E (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	12,865.08	8,576.72	11,992.99	21,441.80	20.0%
Total									1,209.00	118,865.08	8,576.72	91,292.99	37,357.81	128,650.60	
Components (%)									0.9%	92.4%	6.7%	71.0%	29.0%	100.0%	
Unit Rate				each					121.23	11,918.77	860.00	9,154.08	3,745.92	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)											Unit: 10.00 each		Remarks		
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%	566.00	849.00	0.00	0.00	0.00	849.00	849.00
L019	Skilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,506.10	0.00	0.00	0.00	3,506.10	3,506.10
L020	Unskilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,664.20	0.00	0.00	0.00	1,664.20	1,664.20
W09346	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%	656.00	0.00	0.00	984.00	534.15	449.85	984.00
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.173)/min	day	1.50	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	27.26	824.74	465.02	385.98	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%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	3,246.31	2,164.21	2,975.78	2,434.73	5,410.52
Total									6,019.30	83,673.57	3,892.94	65,318.76	30,267.06	95,585.82	
Components (%)									6.2%	87.3%	6.2%	68.3%	31.7%	100.0%	
Unit Rate				each					602.02	8,368					

W0677 PC Cable Anchorage, (5-T12.7, 90t) 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	Total (PP)	
L002	Skilled Labor	nd	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	846.30	0.00	0.00	0.00	846.30	846.30
M09363	PC Anchorage ϕ 32 (T)	nd	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
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	55.0%	45.0%	0.00	0.00	2,082.02	1,389.02	1,908.52	1,561.52	3,470.04
	Total									846.30	14,582.02	1,389.02	11,283.52	5,532.82	18,816.34
	Components (%)									5.0%	86.7%	3.2%	67.1%	32.9%	100.0%
	Unit Rate	each								84.55	1,458.19	138.67	1,127.26	552.74	1,680.00

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

W0678 PC Cable Tensioning, (5-T12.7, 90t) 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	Total (PP)	
L002	Foreman	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	622.60	0.00	0.00	0.00	622.60	
L019	Skilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,015.00	0.00	0.00	0.00	2,015.00	
L020	Unskilled Labor	nd	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	659.40	0.00	0.00	0.00	659.40	
M09343	PC Sheath, ϕ 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	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	391.51	329.89	721.60
R0711-006	Concrete Mixer 4-6 ft ³ /min (0.11-0.17m ³ /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	764.72	643.28	1,408.00
	Miscellaneous	LS	1.80	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	407.78	271.85	305.83	305.83	9.0%
	Total									3,297.00	1,927.77	3,008.28	2,845.98	5,384.53	8,231.02
	Components (%)									40.1%	23.4%	38.5%	34.6%	65.4%	100.0%
	Unit Rate	each								329.66	192.78	300.83	284.66	538.34	823.00

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

W0681 PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Transversal) 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	nd	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	905.80	0.00	0.00	0.00	905.80	
L019	Skilled Labor	nd	13.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,480.80	0.00	0.00	0.00	5,480.80	
L020	Unskilled Labor	nd	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,355.00	0.00	0.00	0.00	2,355.00	
M09313	PC Tendon, ϕ 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	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,912.71
	Total									8,950.61	143,388.83	5,118.48	102,078.51	55,379.41	157,457.91
	Components (%)									5.7%	91.1%	3.2%	64.8%	35.2%	100.0%
	Unit Rate	t								8,924.58	142,971.83	5,103.59	101,781.63	55,218.35	157,000.00

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

W0682 PC Bar Anchorage, (1- ϕ 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	Total (PP)	
L019	Skilled Labor	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	
M09374	PC Anchorage ϕ 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	55.0%	45.0%	0.00	0.00	1,501.76	1,001.17	1,376.61	1,126.32	2,502.93
	Total									443.30	16,701.76	1,001.17	12,776.61	5,399.62	19,145.23
	Components (%)									2.4%	92.0%	3.5%	70.4%	29.6%	100.0%
	Unit Rate	each								44.22	1,665.92	99.86	1,274.41	535.59	1,810.00

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

W0683 PC Bar Tensioning, (ϕ 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	Total (PP)	
L002	Foreman	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	452.80	0.00	0.00	0.00	452.80	
L019	Skilled Labor	nd	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	
L020	Unskilled Labor	nd	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	
M09354	PC Anchorage ϕ 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	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 ft ³ /min (0.11-0.17m ³ /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	556.15	467.84	1,024.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	313.88	209.25	287.72	235.41	3.0%
	Total									2,934.60	12,828.42	2,197.91	10,752.31	7,208.62	17,960.93
	Components (%)									16.3%	71.4%	12.2%	59.9%	40.1%	100.0%
	Unit Rate	each								294.10	1,285.63	220.27	1,077.57	722.43	1,800.00

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

W0686 PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Vertical in Web) 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	nd	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	905.80	0.00	0.00	0.00	905.80	
L019	Skilled Labor	nd	13.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,480.80	0.00	0.00	0.00	5,480.80	
L020	Unskilled Labor	nd	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,355.00	0.00	0.00	0.00	2,355.00	
M09313	PC Tendon, ϕ 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	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,912.71
	Total									8,950.61	143,388.83	5,118.48	102,078.51	55,379.41	157,457.91
	Components (%)									5.7%	91.1%	3.2%	64.8%	35.2%	100.0%
	Unit Rate	t								8,924.58	142,971.83	5,103.59	101,781.63	55,218.35	157,000.00

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

W0687 PC Bar Anchorage, (1- ϕ 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	Total (PP)	
L019	Skilled Labor	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	
M09374	PC Anchorage ϕ 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	55.0%	45.0%	0.00	0.00	1,501.76	1,001.17	1,376.61	1,126.32	2,502.93
	Total									443.30	16,701.76	1,001.17	12,776.61	5,399.62	18,146.23
	Components (%)									2.4%	92.0%	3.5%	70.4%	29.6%	100.0%
	Unit Rate	each								44.22	1,665.92	99.86	1,274.41	535.59	1,810.00

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

W0688 PC Bar Tensioning, (1- ϕ 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				

W0701 Precast Concrete Cover (580x480x70), furnish											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	1.76	2.4%	51.5%	16.1%	56.9%	43.1%	1,720.00	71.19	2,467.12	438.28	1,723.38	1,303.82	3,027.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.73	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	69.07	0.87	374.67	200.78	243.83	444.61	
W0237	Concrete Curbing (reinforced concrete)	m3	1.73	74.6%	7.6%	17.8%	14.0%	88.0%	4.21	5.43	0.55	1.29	1.02	6.25	7.28	
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	3,176.15	1,710.24	4,886.40	
W02011	Structural Steel (Round Bar, SS400)	kg	194.20	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 (Shapes, SS400)	kg	35.40	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	Pump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.20	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	12.04	17.22	59.94	43.70	45.50	89.20	
	Miscellaneous	LS	1.00	0.0%	0.0%	20.0%	50.0%	50.0%		0.00	273.65	68.41	171.03	171.03	342.06	3.0%
	Total								157.74	10,593.21	993.20	7,379.25	4,364.90	11,744.15		
	Components (%)								1.3%	90.2%	8.5%	62.6%	37.2%	100.0%		
	Unit Rate	each							1.57	105.53	9.89	73.59	43.48	117.00		

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

W0702 Precast Concrete Cover (580x480x70), installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	753.60	0.00	0.00	0.00	753.60	169.80	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	11.08	99.73	55.40	55.40	110.81	12.0%
	Total								923.40	11.08	99.73	55.40	978.80	1,034.21		
	Components (%)								89.3%	1.1%	9.6%	5.4%	94.6%	100.0%		
	Unit Rate	each							9.20	0.11	0.99	0.55	9.75	10.30		

Miscellaneous covers the cost for cart, etc.

W0703 Precast Concrete Cover (680x580x75), furnish											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	3.02	2.4%	81.5%	16.1%	56.9%	43.1%	1,720.00	122.16	4,233.36	838.88	2,957.18	2,237.24	5,194.40	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.96	98.0%	0.2%	1.9%	1.1%	98.9%	224.00	650.04	1.30	11.70	7.15	655.89	663.04	
W0237	Concrete Curbing (reinforced concrete)	m3	2.96	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	9.30	0.95	2.21	1.74	10.72	12.46	
W0201	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	9,716.00	0.00	6,315.92	3,400.88	9,716.00	
W02011	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	251.14	837.12	
W02014	Structural Steel (Shapes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	1,833.92	0.00	1,283.74	550.18	1,833.92	
R0601-003	Pump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.34	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	20.47	29.27	101.90	74.29	77.35	151.64	
	Miscellaneous	LS	1.00	0.0%	0.0%	20.0%	50.0%	50.0%		0.00	441.83	116.46	276.14	276.14	552.28	3.0%
	Total								801.97	17,094.51	1,065.15	11,502.13	7,459.54	18,961.68		
	Components (%)								8.0%	90.2%	8.5%	62.6%	37.2%	100.0%		
	Unit Rate	each							8.04	171.29	10.67	115.25	74.75	190.00		

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

W0704 Precast Concrete Cover (680x580x75), installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	753.60	0.00	0.00	0.00	753.60	169.80	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	110.81	55.40	55.40	110.81	12.0%
	Total								923.40	0.00	0.00	110.81	55.40	978.80	1,034.21	
	Components (%)								89.3%	0.0%	10.7%	5.4%	94.6%	100.0%		
	Unit Rate	each							9.20	0.00	1.10	0.55	9.75	10.30		

Miscellaneous covers the cost for cart, etc.

W0711 Iron Step for Drop Inlet Manholes, furnish & installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W02011	Structural Steel (Round Bar, SS400)	kg	226.90	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,946.42	0.00	3,462.49	1,483.93	4,946.42	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	86.38	346.32	216.45	216.45	432.90	8.0%
	Total								464.90	3,033.00	346.32	3,678.94	2,165.17	5,844.12		
	Components (%)								8.0%	86.1%	5.9%	63.0%	37.0%	100.0%		
	Unit Rate	each							4.64	30.29	3.46	36.76	21.64	58.40		

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

W0712 Iron Step for Special Function Box Manholes, furnish & installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W02011	Structural Steel (Round Bar, SS400)	kg	209.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,589.28	0.00	3,159.58	1,370.78	4,589.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	80.55	322.18	201.36	201.36	402.72	8.0%
	Total								464.80	4,649.83	322.18	3,359.56	2,036.95	5,436.81		
	Components (%)								8.5%	85.5%	5.9%	62.5%	37.5%	100.0%		
	Unit Rate	each							4.65	46.53	3.22	34.02	20.38	54.40		

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

W0716 Steel Grate for Manhole Inlet, furnish & installation											Unit: 40.00 kg					
Item No.	Description	Unit	Quantity	Component (%)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W02001	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	8.99	40.93	44.96	44.96	89.92	8.0%
	Total								464.80	669.19	80.93	473.44	740.48	1,213.92		
	Components (%)								38.3%	35.0%	6.7%	39.0%	61.0%	100.0%		
	Unit Rate	kg							11.60	16.68	2.02	11.82	18.48	30.30		

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

W0721 Grating Cover for U-Ditch (#=300mm), furnish & installation											Unit: 10.00 m2					
Item No.	Description	Unit	Quantity	Component (%)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L009	Welder	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	550.00	0.00	0.00	0.00	550.00	550.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
W02014	Structural Steel (Flat Bar, SS400)	kg	265.50	0.0%	100.0%	0.0%	70.0%	30.0%	17.80	0.00	3,634.40	0.00	2,544.08	1,090.32	3,634.40	
W02012	Structural Steel (Flat Bar, SS400)	kg	265.20	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	6,110.84	0.00	4,277.59			

#0732 Granular Bedding for Rubble Concrete

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	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	405.00	120.90	0.00	0.00	0.00	120.90	120.90
L020	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	280.90	480.85	2,334.25	1,456.21	1,639.79	3,096.00
	Miscellaneous	LS	1.00	0.0%	0.0%	60.0%	50.0%	50.0%	0.00	0.00	15.63	82.32	39.08	39.08	78.15
	Total								1,092.80	1,092.80	498.48	2,396.77	1,495.28	2,438.87	3,995.35
	Components (%)								27.4%	12.7%	60.1%	37.5%	62.5%	100.0%	
	Unit Rate	m3							109.28	49.70	239.93	149.68	248.32	399.00	

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

#0733 Washout Prevention Filter, furnish and laying

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84
M0202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	880.61	0.00	528.37	352.24	859.61
	Miscellaneous	LS	1.00	0.0%	0.0%	90.0%	50.0%	50.0%	0.00	0.00	1.80	16.19	8.99	8.99	17.99
	Total								314.00	882.41	16.19	537.36	350.08	917.44	
	Components (%)								2.1%	96.2%	1.8%	58.6%	41.4%	100.0%	
	Unit Rate	m2							1.83	88.20	1.62	51.71	37.99	91.70	

Miscellaneous covers the costs for minor tools, etc.

#0741 Grouted Riprap Class A

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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	168.80	0.00	0.00	0.00	168.80	168.80
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	
W0129	Gravel/Stone, transported	m3	9.00	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	205.85	329.14	1,239.00	792.02	971.98	1,764.00
W0221	Mortar (1:3)	m3	2.55	1.6%	93.8%	4.6%	38.1%	41.8%	1,820.00	75.91	4,353.52	211.57	2,695.20	1,945.80	4,641.00
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	12.66	36.33	36.33	72.66
	Total								1,142.37	4,682.66	1,513.23	3,529.55	3,814.70	7,338.26	
	Components (%)								15.6%	63.8%	20.6%	48.0%	52.0%	100.0%	
	Unit Rate	m3							114.24	468.38	151.35	352.44	381.56	734.00	

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

#0742 Stone Masonry, laid

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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	168.80	0.00	0.00	0.00	168.80	168.80
L007	Masonry	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	277.80	0.00	0.00	0.00	277.80	277.80
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	
W0129	Gravel/Stone, transported	m3	8.40	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	192.13	307.20	1,147.07	739.22	907.18	1,648.40
W0222	Mortar (1:2)	m3	3.06	1.5%	94.1%	4.5%	38.2%	41.8%	2,340.00	104.18	6,734.53	321.89	4,166.13	2,994.27	7,160.40
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	99.45	49.73	49.73	99.45
	Total								1,434.71	7,041.73	1,568.21	4,955.08	5,089.58	10,044.55	
	Components (%)								14.3%	70.1%	15.6%	49.3%	50.7%	100.0%	
	Unit Rate	m3							142.83	701.04	156.12	493.30	506.70	1,000.00	

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

#0751 Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill

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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80
L007	Masonry	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	505.30	0.00	0.00	0.00	505.30	505.30
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	910.60	0.00	0.00	0.00	910.60	
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	110.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,320.00	0.00	339.00	990.00	1,320.00
W0221	Mortar (1:3)	m3	0.37	1.6%	93.8%	4.6%	38.1%	41.8%	1,820.00	11.01	631.69	30.70	391.07	282.33	673.40
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	35.66	19.33	35.66	71.33
	Total								1,883.71	1,951.69	69.36	740.40	3,164.36	3,904.76	
	Components (%)								48.2%	50.0%	1.8%	19.0%	81.0%	100.0%	
	Unit Rate	each							18.81	19.49	0.63	7.38	31.51	39.05	

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00
R0305-D07	Vibratory Single Smooth Drum 3.75t (Vibration Roller, combined, 3-4t)	hr	1.93	20.4%	9.1%	70.5%	44.2%	55.8%	429.00	168.91	75.35	583.72	366.00	461.97	827.97
R0306-D08	Vibration Remover, 6in	day	0.85	0.0%	48.4%	50.5%	59.7%	40.3%	158.00	0.00	86.34	67.96	80.14	54.16	134.30
W0122	Crushed Aggregate, transported	m3	13.56	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	0.00	543.66	2,637.70	1,645.51	1,832.97	3,488.48
	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	
	Total								1,428.32	685.05	3,269.38	2,091.66	3,111.02	6,402.75	
	Components (%)								26.4%	12.7%	60.9%	38.7%	61.3%	100.0%	
	Unit Rate	m2							14.28	6.85	32.88	20.91	31.09	54.00	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	509.40	0.00	0.00	0.00	509.40	509.40
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	
L020	Unskilled Labor	md	11.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,611.00	0.00	0.00	0.00	3,611.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.40	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	430.81	13,514.81	3,005.39	9,610.79	7,341.21	16,952.00
M07101	Joint Filler (bituminous t=10mm)	m2	2.50	0.0%	100.0%	0.0%	60.0%	40.0%	296.00	0.00	715.00	0.00	429.00	296.00	715.00
M07111	Joint Sealant (10x10mm)	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
M02011	Structural Steel (Round Bar, S5400)	kg	246.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	5,375.68	0.00	3,783.12	1,612.78	5,375.68
M08701	Steel Gas Pipe, ø25	m	52.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	6,084.00	0.00	3,850.40	2,431.60	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	
	Total								6,969.21	28,824.69	3,005.39	19,334.31	19,465.97	41,904.30	
	Components (%)								15.6%	68.8%	7.2%	46.1%	46.5%	100.0%	
	Unit Rate	m2							69.68	288.22	30.05	193.32	194.64	419.00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, dowels, etc.
Thickness = 0.100 m

#0871 Guardrail Type A, furnish

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	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	45.28	0.00	0.00	0.00	45.28	45.28
L009	Welder	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	500.00						

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%	566.00	45.28	0.00	0.00	0.00	45.28	45.28
L009	Welder	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	80.00	0.00	0.00	0.00	80.00	80.00
L010	Painter	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	70.40	0.00	0.00	0.00	70.40	70.40
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	128.96
M02015	Structural Steel (Plates, SS400)	kg	93.64	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,891.53	0.00	1,324.07	567.46	1,891.53
M02031	Steel Pipe	kg	55.30	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,321.57	0.00	925.17	396.50	1,321.57
M02351	Bolt M16x50	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	7.80	0.00	234.90	0.00	164.43	70.47	234.90
M02359	Bolt M16x50	each	3.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.70	0.00	56.10	0.00	39.27	16.83	56.10
R0901-025	Welding Machine 250A	day	0.16	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	56.54	55.12	38.96	94.08
R1001-100	Generator 51-100 kW	day	0.16	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	200.57	239.83	235.10	175.50	430.40
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		195.90	587.70	522.40	522.40	783.60	1,306.00
	Total								320.54	4,329.91	808.87	3,285.56	2,373.76	5,662.32	
	Components (%)								9.2%	76.3%	14.3%	58.1%	41.9%	100.0%	
	Unit Rate								65.03	540.92	101.05	410.45	296.55	707.00	

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%	566.00	266.02	0.00	0.00	0.00	266.02	266.02
L009	Welder	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	235.00	0.00	0.00	0.00	235.00	235.00
L010	Painter	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	418.00	0.00	0.00	0.00	418.00	418.00
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26
M02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,586.43	0.00	3,509.80	1,675.63	5,586.43
M02014	Structural Steel (Shanes, SS400)	kg	419.80	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,388.45	0.00	5,171.94	2,216.54	7,388.45
M02015	Structural Steel (Plates, SS400)	kg	32.70	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	660.54	0.00	462.38	198.16	660.54
M02011	Structural Steel (Round Bar, SS400)	kg	29.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	639.74	0.00	447.12	191.62	639.74
M02061	Chain Link Wire Net	m2	98.49	0.0%	100.0%	0.0%	70.0%	30.0%	168.50	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32
R0901-025	Welding Machine 250A	day	0.47	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	109.99	166.37	161.91	114.45	276.36
R1001-100	Generator 51-100 kW	day	0.47	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%		1,432.60	4,297.79	3,320.25	3,820.33	5,730.38	9,550.84
	Total								2,943.83	33,800.45	4,691.70	24,893.68	16,492.10	41,385.09	
	Components (%)								8.1%	81.7%	11.3%	60.2%	39.8%	100.0%	
	Unit Rate								61.89	715.44	98.67	526.32	349.08	875.00	

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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	967.20
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	722.20	0.00	0.00	0.00	722.20	722.20
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								1,852.20	0.00	0.00	0.00	0.00	1,852.20	
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate								18.60	0.00	0.00	0.00	0.00	18.60	

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%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,813.50	0.00	0.00	0.00	1,813.50	1,813.50
L020	Unskilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,413.00	0.00	0.00	0.00	1,413.00	1,413.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								3,566.10	0.00	0.00	0.00	0.00	3,566.10	
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate								35.70	0.00	0.00	0.00	0.00	35.70	

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%	566.00	962.20	0.00	0.00	0.00	962.20	962.20
L019	Skilled Labor	md	8.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,425.50	0.00	0.00	0.00	3,425.50	3,425.50
L020	Unskilled Labor	md	6.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,915.40	0.00	0.00	0.00	1,915.40	1,915.40
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								6,303.10	0.00	0.00	0.00	0.00	6,303.10	
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate								63.00	0.00	0.00	0.00	0.00	63.00	

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 (2.3-4.6m3)	hr	5.06	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	364.87	521.63	1,816.25	1,324.13	1,378.63	2,732.76
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								364.87	521.63	1,816.25	1,324.13	1,378.63	2,732.76	
	Components (%)								13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
	Unit Rate								3.65	5.21	18.14	13.23	13.77	27.00	

$T = (A+N*2L/V)/N$
 N: Loading capacity = 50.00 each
 L: Haulage Distance = 6.60 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 (2.3-4.6m3)	hr	11.17	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	672.55	961.49	3,347.78	2,440.68	2,541.14	4,981.82
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								672.55	961.49	3,347.78	2,440.68	2,541.14	4,981.82	
	Components (%)								13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
	Unit Rate								6.72	9.61	33.47	24.40	25.40	49.80	

$T = (A+N*2L/V)/N$
 N: Loading capacity = 45.00 each
 L: Haulage Distance = 6.60 km
 A: Loading Time = 0.10 hr/each
 V: Traveling Speed = 25.00 km/hr

W0923 Tree Haulage, 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)	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	19.64	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	1,182.52	1,690.57	5,886.34	4,291.40	4,468.04	8,750.44
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total														

W0932 Tree Planting, Medium Tree 1.5m<H≤3.0m

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%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L019	Skilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	103.00	1,491.10	0.00	0.00	0.00	1,491.10	1,491.10
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								2,716.10	0.00	0.00	0.00	0.00	2,716.10	2,716.10
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	Unit Rate	each							27.20	0.00	0.00	0.00	0.00	27.20	27.20

W0933 Tree Planting, High Tree (young tree) 1.5m<H≤3.0m

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	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20
L019	Skilled Labor	md	16.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,488.30	0.00	0.00	0.00	6,488.30	6,488.30
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,014.40	0.00	0.00	0.00	3,014.40	3,014.40
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								11,313.90	0.00	0.00	0.00	0.00	11,313.90	11,313.90
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	Unit Rate	each							113.00	0.00	0.00	0.00	0.00	113.00	113.00

W0951 Precast Curbstone for Planter Square, Furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
W0203	Concrete (Class A, 21MPa, max size 38mm)	m3	2.30	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	95.27	2,988.95	664.87	2,128.48	1,623.54	3,749.00
W0235	Concrete Pouring by Manpower for small structures	m3	2.25	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	494.12	0.99	8.89	5.44	498.56	504.00
W0236	Concrete Curing (plain concrete)	m3	2.25	70.9%	8.7%	20.4%	16.0%	54.0%	8.85	14.12	1.74	4.05	3.18	16.73	18.91
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.25	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	15.88	28.06	113.04	79.61	77.17	156.78
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	212.63	141.75	177.19	177.19	354.38
	Total								619.19	3,232.27	932.61	2,390.85	2,393.18	4,784.07	
	Components (%)								12.9%	67.6%	18.5%	50.0%	50.0%	100.0%	
	Unit Rate	m							6.19	52.30	9.32	29.59	23.91	47.85	

W0952 Precast Curbstone for Planter Square, Laying

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	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40
L007	Masonry	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	879.70	0.00	0.00	0.00	879.70	879.70
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	105.78	26.44	66.10	132.20	132.20
	Total								3,304.90	105.78	26.44	66.10	3,371.00	3,437.10	
	Components (%)								96.2%	3.1%	0.8%	1.9%	98.1%	100.0%	
	Unit Rate	m							33.08	1.06	0.26	0.66	33.74	34.40	

W0956 Treading Prevention Board for Planter Square, Furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
W0203	Concrete (Class A, 21MPa, max size 38mm)	m3	6.12	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	253.51	7,952.94	1,769.14	8,655.58	4,320.02	9,975.60
W0235	Concrete Pouring by Manpower for small structures	m3	6.00	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	1,317.65	2.64	23.72	14.49	1,329.51	1,344.00
W0236	Concrete Curing (plain concrete)	m3	6.00	70.9%	8.7%	20.4%	16.0%	54.0%	8.85	37.66	4.63	10.81	8.49	44.61	53.10
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	480.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	1,698.50	8,612.28	873.22	6,038.79	5,145.21	11,184.00
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.90	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	54.27	97.14	391.29	275.57	267.13	542.70
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	1,108.77	739.18	923.99	923.99	1,847.95
	Total								3,361.59	17,778.41	3,807.26	12,918.91	12,010.44	24,947.35	
	Components (%)								13.5%	71.3%	15.3%	51.6%	48.2%	100.0%	
	Unit Rate	m2							33.55	177.45	38.00	128.92	120.08	249.00	

W0957 Treading Prevention Board for Planter Square, Laying

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%	566.00	452.80	0.00	0.00	0.00	452.80	452.80
L007	Masonry	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	1,203.80	0.00	0.00	0.00	1,203.80	1,203.80
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,550.20	0.00	0.00	0.00	1,550.20	1,550.20
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	147.33	63.14	105.24	105.24	210.48
	Total								3,006.80	147.33	63.14	105.24	3,117.28	3,217.28	
	Components (%)								93.5%	4.6%	2.0%	3.3%	96.7%	100.0%	
	Unit Rate	m2							30.09	1.47	0.63	1.03	31.15	32.20	

W1001 Underground Cable Duct

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
W0102	Excavation, Backhoe 0.35m3	m3	3.00	8.4%	8.4%	85.2%	51.6%	48.2%	49.40	9.48	12.45	126.27	76.78	71.42	148.20
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.90	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	6.82	12.35	64.53	45.08	40.62	83.70
W0133	Backfill C	m3	2.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	34.77	36.03	233.70	150.43	154.07	304.50
W0201	Lean Concrete (17MPa, max size 38mm)	m3	0.92	2.7%	78.1%	19.1%	56.4%	43.6%	1,510.00	38.01	1,065.35	265.83	183.99	605.21	1,389.20
W0235	Concrete Pouring by Manpower for small structures	m3	0.90	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	197.65	0.40	3.36	2.17	199.43	201.60
W0236	Concrete Curing (plain concrete)	m3	0.90	70.9%	8.7%	20.4%	16.0%	54.0%	8.85	5.65	0.70	1.82	1.27	6.70	7.97
N13052	Electric Conduit	m	10.00	0.0%	100.0%	0.0%	45.0%	55.0%	67.90	0.00	679.00	0.00	393.55	373.45	679.00
N13051	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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	126.30	0.00	0.00	0.00	126.30	126.30
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	18.10	18.10	18.10	36.20	
	Total								475.29	2,467.37	713.61	1,724.03	1,932.24	3,656.27	
	Components (%)								13.0%	67.5%	19.5%	42.8%	52.8%	100.0%	
	Unit Rate	m							47.58	246.99	71.43	172.58	193.42	366.00	

W1011 Electric Cable Laying

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
N13051	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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	126.30	0.00	0.00	0.00	126.30	126.30
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	16.12	16.12			

W102 Traffic Signal Post Type A (West Arms) H=6.0m, Furnished

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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	352.49	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	8,424.51	0.00	5,997.18	2,527.35	8,424.51	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,160.29	0.00	812.00	348.09	1,160.29	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	129.66	55.86	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	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.30	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	8.25	13.31	64.34	43.63	42.27	85.90	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	859.00	98.96	2,226.71	2,622.57	2,721.53	2,226.71	4,948.24	30.0%
Total									1,514.50	14,558.93	5,368.93	12,720.41	9,721.96	21,442.36		
Components (%)									7.1%	67.9%	25.0%	59.3%	40.7%	100.0%		
Unit Rate									1,511.51	14,530.17	5,358.33	12,695.28	9,704.72	21,400.00		

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

W103 Traffic Signal Posts Type B #114.3mm x 4.2m, Furnished

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	70.0%	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%	70.0%	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%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	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	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.10	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	0.82	13.31	64.34	43.63	42.27	85.90	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	859.00	43.56	980.02	1,154.25	1,197.91	890.02	2,177.83	30.0%
Total									1,148.60	4,990.51	3,298.14	5,065.21	4,372.05	9,437.26		
Components (%)									12.2%	52.9%	34.9%	33.7%	46.3%	100.0%		
Unit Rate									1,148.94	4,991.96	3,299.10	5,066.68	4,373.32	9,440.00		

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

W104 Traffic Signal Posts Type C #114.3mm x 3.4m, Furnished

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	45.26	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,091.71	0.00	757.20	324.51	1,091.71	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	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%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	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	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.09	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	0.74	10.65	51.47	34.91	33.81	69.72	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	859.00	41.92	943.15	1,110.82	1,152.74	943.15	2,095.88	30.0%
Total									1,148.60	4,695.00	3,241.85	4,832.23	4,249.59	9,082.16		
Components (%)									12.6%	51.7%	35.7%	35.2%	46.8%	100.0%		
Unit Rate									1,148.04	4,691.69	3,241.07	4,831.08	4,248.92	9,080.00		

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

W105 Pedestrian Signal Posts Type D #114.3mm x 3.0m, Furnished

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	40.01	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	956.24	0.00	669.37	286.87	956.24	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	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%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	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	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.08	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	0.69	10.65	51.47	34.91	33.81	69.72	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	859.00	41.16	926.21	1,090.87	1,129.63	926.21	2,056.24	30.0%
Total									1,148.60	4,116.50	3,221.90	4,722.70	4,195.20	8,919.05		
Components (%)									12.8%	51.0%	36.1%	35.0%	47.0%	100.0%		
Unit Rate									1,144.68	4,553.03	3,222.24	4,724.20	4,195.80	8,920.00		

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

W1201 Street Lighting Pole (single lamp), furnished

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	231.21	0.0%	100.0%	0.0%	70.0%	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	8.51	0.0%	100.0%	0.0%	70.0%	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%	70.0%	30.0%	21.80	0.00	183.52	0.00	136.56	55.66	183.52	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	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.32	9.6%	15.5%	74.9%	50.8%	49.2%	859.							

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		Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	471.00	0.00	0.00	0.00	471.00	471.00	
M2014	Structural Steel (Shapes, SS400)	kg	425.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,392.00	0.00	5,174.40	2,217.60	7,392.00	Loss 5.0%
M2015	Structural Steel (Plates, SS400)	kg	630.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	12,735.00	0.00	8,908.20	3,826.80	12,735.00	Loss 5.0%
M2071	High Tension Bolt M16	each	8.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	148.00	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%	589.00	0.00	234.02	353.98	344.48	243.52	589.00	
R1001-100	Generator 51-100 kW	dav	1.00	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,253.54	1,436.46	1,594.40	1,095.60	2,690.00	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	2.86	5.0%	7.3%	87.7%	52.2%	47.8%	1,470.00	210.21	306.91	3,687.08	2,195.28	2,008.92	4,204.20	
R0604-020	Trailer 20t	hr	0.51	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	32.36	91.13	728.20	454.01	397.69	851.70	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	55.0%	45.0%	913.75	4,111.88	4,111.88	5,025.64	4,111.88	9,137.52	30.0%	
Total									3,014.83	26,263.49	10,317.61	23,800.01	15,795.91	39,595.92		
Components (%)									7.5%	65.3%	26.1%	60.1%	39.9%	100.0%		
Unit Rate									3,015.14	26,266.19	10,319.67	23,802.46	15,797.54	39,600.00		

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		Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	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	7,466.40	4,977.60	12,444.00	Loss 2.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
R0604-020	Trailer 20t	hr	0.09	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	5.71	16.08	128.51	80.12	70.18	150.30	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	156.98	156.98	172.67	141.28	313.95	2.0%	
Total									1,311.82	12,746.39	1,933.45	8,707.45	7,304.20	16,011.85		
Components (%)									8.2%	79.6%	12.2%	54.4%	45.6%	100.0%		
Unit Rate									13.11	127.37	19.52	87.01	72.99	160.00		

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		Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	250.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	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	7,466.40	4,977.60	12,444.00	Loss 2.0%
M12111	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	Loss 2.0%
M2014	Structural Steel (Shapes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
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	Loss 2.0%
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	589.00	0.00	117.01	176.99	172.24	294.00		
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.6%	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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	311.07	311.07	342.19	279.96	622.14	1.0%	
Total									1,558.10	58,406.18	2,874.22	39,035.15	23,801.37	62,836.54		
Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%		
Unit Rate									15.55	583.72	28.71	390.12	237.88	628.00		

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		Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	250.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12111	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	Loss 2.0%
M12112	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	Loss 2.0%
M2014	Structural Steel (Shapes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
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	Loss 2.0%
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	589.00	0.00	117.01	176.99	172.24	294.00		
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.6%	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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	309.03	309.03	339.94	278.13	618.06	1.0%	
Total									1,558.10	57,996.14	2,874.22	38,788.13	23,836.33	62,424.46		
Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%		
Unit Rate									15.55	579.73	28.71	387.73	256.27	624.00		

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		Total (PP)
L007	Masonry	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	453.00	231.50	0.00	0.00	0.00	231.50	231.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	0.00	0.00	0.00	0.00	157.00	157.00	
W0221	Mortar (1:3)	m3	3.06	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	91.10	5,224.22	253.88	3,234.25	2,334.95	5,569.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	475.60	5,402.82	432.62	3,420.52	2,894.11	6,315.15	6.0%
Total									511.00	5,402.82	432.62	3,420.52	2,894.11	6,315.15		

#3011 Plain Cement Mortar Wall 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%	463.00	231.50	0.00	0.00	0.00	231.50	231.50
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20
M0221	Mortar (1:3)	m ³	3.06	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	91.10	5,224.22	253.89	3,234.25	2,334.95	5,569.20
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	181.66	181.59	186.71	163.40	363.11
	Total									573.60	5,405.78	423.44	3,433.96	2,981.26	6,415.01
	Components (%)									8.9%	94.3%	6.8%	53.5%	46.5%	100.0%
	Unit Rate									5.74	54.10	4.36	34.37	29.83	64.20

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

#3012 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	
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	400.00	0.00	0.00	0.00	400.00	400.00
L015	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00
M02015	Structural Steel (Plates, SS400)	kg	21.42	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	432.68	0.00	302.88	129.80	432.68
R0901-025	Welding Machine 250A	day	0.80	0.0%	39.8%	60.2%	58.6%	41.4%	398.00	0.00	187.22	283.19	275.59	194.81	470.40
R1001-100	Generator 51-100 kW	day	0.80	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,002.83	1,149.17	1,275.52	876.48	2,152.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.27	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	101.15	112.87	1,251.88	754.24	711.66	1,465.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	821.32	821.52	903.87	739.37	1,643.01
	Total									1,056.95	2,557.12	3,505.74	3,511.59	7,119.81	
	Components (%)									14.8%	35.9%	49.2%	49.3%	50.7%	100.0%
	Unit Rate									1,056.95	2,557.12	3,505.74	3,511.59	7,120.00	

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

#3013 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	
L002	Foreman	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,999.80	0.00	0.00	0.00	2,999.80	2,999.80
L019	Skilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,407.70	0.00	0.00	0.00	6,407.70	6,407.70
L020	Unskilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,992.60	0.00	0.00	0.00	4,992.60	4,992.60
M12251	Steel Door with Steel Panels 900x2100mm	each	7.00	0.0%	100.0%	0.0%	45.0%	55.0%	5,530.00	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 600x2100mm	each	6.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,870.00	0.00	11,220.00	0.00	2,244.00	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 3900x1500mm	each	16.00	0.0%	100.0%	0.0%	45.0%	55.0%	12,500.00	0.00	200,000.00	0.00	90,000.00	110,000.00	200,000.00
M12263	Jalousie Window with Steel Blades 1400x900	each	2.00	0.0%	100.0%	0.0%	45.0%	55.0%	2,640.00	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
#3012	Steel Fixed Louver	each	4.00	14.8%	35.9%	49.2%	49.3%	50.7%	7,120.00	4,227.90	10,228.76	14,023.34	14,047.93	14,432.07	28,480.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	354.13	354.13	389.54	318.72	708.26
	Total									18,428.00	321,832.88	14,277.47	146,694.97	208,143.28	354,838.38
	Components (%)									5.2%	90.7%	4.1%	41.3%	40.0%	100.0%
	Unit Rate									18,428.00	321,832.88	14,277.47	146,694.97	208,143.28	354,838.38

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

#3014 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	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L012	Electrician	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	3,368.00	0.00	0.00	0.00	3,368.00	3,368.00
L019	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,612.00	0.00	0.00	0.00	1,612.00	1,612.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	40.00	0.0%	100.0%	0.0%	60.0%	40.0%	496.00	0.00	19,840.00	0.00	11,904.00	7,936.00	19,840.00
M13141	Ceiling Lamp, SL-18 with Hexalex Type, Medium Base Porcelain Receramic	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	109.80	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	467.03	308.48	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	168.95	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	1,593.90	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	516.00	0.00	283.80	232.20	516.00
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	1.00	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	2.00	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	3,610.00	0.00	2,346.50	1,263.50	3,610.00
M13161	Concealed or Embedded Conduit Run Underground or Underfloor 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	Perimeter Lighting, 150W 220V Mercury Lamp	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	Luminaire	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 Lightline Post H=3.5m	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	4,670.00	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	10,220.00	0.00	6,132.00	4,088.00	10,220.00
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	50.0%	50.0%		135.77	543.09	2,006.59	1,357.73	1,357.73	2,715.46
	Total									6,937.77	129,519.99	2,006.59	78,435.50	60,052.85	138,488.36
	Components (%)									5.0%	93.3%	1.5%	56.6%	43.4%	100.0%
	Unit Rate									6,937.77	129,519.99	2,006.59	78,435.50	60,052.85	138,488.36

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

#3015 Sewer 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	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00
L															

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	
W0105	Excavation, Backhoe 0.81m3	m3	24.37	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	44.22	84.41	876.28	531.38	473.93	1,004.91
W0111	Dispose of Surplus Soil (backhoe loading)	m3	12.32	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	93.32	169.03	883.41	589.77	555.99	1,145.76
W0132	Backfill B	m3	12.25	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	104.05	136.17	1,119.54	697.15	682.80	1,359.75
W0161	Gravel Foundation Fill	m3	0.82	24.8%	15.1%	62.1%	39.0%	61.0%	390.00	79.38	41.80	198.81	124.67	185.13	219.90
W0201	Concrete (Class A, 21MPa, max agr. 38mm)	m3	1.67	2.5%	79.7%	17.7%	66.7%	43.3%	1,630.00	69.18	2,170.17	482.76	1,543.27	1,178.83	2,722.10
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.64	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	65.48	0.83	355.18	190.34	231.14	421.48
W0237	Concrete Curbing (reinforced concrete)	m3	1.64	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	5.15	0.33	1.23	0.96	5.94	6.90
W0241	Formwork (reinforced concrete M4m)	m2	6.93	39.3%	39.9%	0.9%	2.9%	97.1%	224.00	920.31	619.84	12.18	45.30	1,507.02	1,352.32
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	182.10	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	644.37	3,267.28	331.28	2,290.97	1,951.96	4,242.93
W3002	150mm Thick Concrete Hollow Block Wall	m2	19.62	12.5%	84.4%	3.0%	36.5%	63.5%	331.00	813.23	5,483.46	197.32	2,369.84	4,124.38	6,494.22
W3011	Plain Cement Mortar Wall Finish	m2	21.78	8.9%	84.3%	6.8%	33.5%	46.5%	64.20	125.07	1,178.30	94.91	748.50	649.78	1,398.28
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								2,963.75	13,151.82	4,552.38	9,132.15	11,536.30	20,668.45	
	Components (%)								14.3%	63.6%	22.0%	44.2%	55.9%	100.0%	
	Unit Rate	each							2,968.28	13,171.89	4,559.83	9,148.09	11,553.91	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	
W0102	Excavation, Backhoe 0.35m3	m3	15.58	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	49.26	64.65	655.74	398.73	370.92	769.65
W0111	Dispose of Surplus Soil (backhoe loading)	m3	1.12	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	8.48	15.37	80.31	53.62	50.54	104.16
W0132	Backfill B	m3	14.46	7.7%	10.0%	82.2%	51.3%	48.7%	111.00	122.82	160.73	1,321.51	822.92	782.14	1,605.06
W0201	Concrete (Class A, 21MPa, max agr. 38mm)	m3	1.14	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	47.22	1,481.43	329.55	1,053.49	804.71	1,858.20
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	44.72	0.56	242.36	129.99	155.87	287.84
W0237	Concrete Curbing (reinforced concrete)	m3	1.12	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.52	0.36	0.94	0.65	4.06	4.72
W0241	Formwork (reinforced concrete M4m)	m2	13.60	39.3%	39.9%	0.9%	2.9%	97.1%	224.00	1,806.09	1,216.42	23.89	88.90	2,957.30	3,045.40
W08706	Steel Gas Pipe, 400	m	10.60	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	3,175.20	0.00	1,905.12	1,270.08	4,175.20
W08704	Steel Gas Pipe, 450	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	4,949.40
W02001	Reinforcing Bars, Grade 40	kg	19.50	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	312.00	0.00	202.60	109.20	312.00
M12101	Chain Link Fence Fabric	m	40.00	0.0%	100.0%	0.0%	50.0%	50.0%	1,460.00	0.00	58,400.00	0.00	29,200.00	29,200.00	58,400.00
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	43.28	0.00	0.00	0.00	43.28	566.00
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	403.00
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	100.48	0.00	0.00	0.00	100.48	314.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								2,356.33	68,758.12	2,654.40	36,225.86	37,361.49	73,767.35	
	Components (%)								3.2%	93.2%	3.6%	49.1%	50.9%	100.0%	
	Unit Rate	m							58.77	1,715.04	66.19	903.35	938.65	1,840.00	

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	
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	147.16	0.00	0.00	0.00	147.16	566.00
L019	Skilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	419.12	0.00	0.00	0.00	419.12	403.00
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	326.56	0.00	0.00	0.00	326.56	314.00
M04001	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	11,888.00	12,432.00
M02062	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
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	30.0%	30.0%	0.00	191.72	287.58	239.65	239.65	479.31	
	Total								892.84	15,275.72	287.58	2,411.05	14,045.09	16,456.15	
	Components (%)								5.4%	92.8%	1.7%	14.7%	85.3%	100.0%	
	Unit Rate	m							6.89	117.89	2.22	18.61	108.39	127.00	

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

W3101 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	
	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	368.00	56.80	511.20	568.00
	Mojo Rod with rake	each	4.00	0.0%	0.0%	100.0%	30.0%	70.0%	360.00	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
	Best Fan	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	115.00	0.00	0.00	460.00	115.00	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	
	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
	Mojo Rake	each	144.00	0.0%	100.0%	0.0%	15.0%	85.0%	85.00	0.00	9,360.00	0.00	1,404.00	7,956.00	9,360.00
	Laundry Detergent, 1.6kg	pack	61.20	0.0%	100.0%	0.0%	25.0%	75.0%	148.00	0.00	9,057.60	0.00	2,264.40	6,793.20	9,057.60
	Bathroom Cleaner, 500ml	bottle	21.60	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	1,188.00	0.00	356.40	831.60	1,188.00
	Power Cleanser, 350g	bottle	32.40	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	745.20	0.00	223.56	521.64	745.20
	Electric Bulb, 50-100W	each	144.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	3,312.00	0.00	1,821.60	1,490.40	3,312.00
	Fluorescent Tube, 20W	each	108.00	0.0%	100.0%	0.0%	65.0%	35.0%	64.00	0.00	6,912.00	0.00	4,147.20	2,764.80	6,912.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	327.07	327.07	327.07	327.07	
	Total								0.00	51,101.87	5,090.07	12,449.03	23,742.91	36,191.93	
	Components (%)								0.0%	85.9%	14.1%	34.4%	65.6%	100.0%	
	Unit Rate	month							0.00	867.95	142.05	347.41	662.59	1,010.00	

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

W3102 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	
	Executive Desk	each	2.00	0.0%	0.0%	100.0%	0.0%	15.0%	85.0%	4,300.00	0.00	8,600.00	0.00	1,290.00	7,310.00
	Office Desk	each	10.00	0.0%	0.0%	100.0%	0.0%	15.0%	85.0%	4,000.00	0.00	40,000.00	0.00	6,000.00	34,000.00
	Drafting Table	each	1.00	0.0%	0.0%	100.0%	0.0%	15.0%	85.0%	2,200.00	0.00	2,200.00	0.00	330.00	1,870.00
	TV Unit	each	1.00	0.0%	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	2,700.00	0.00	405.00	2,295.00
	Computer Table														

#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	940.00	0.00	6,820.00	2,820.00	9,400.00	
	Desk Tote Calculator	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	570.00	0.00	570.00	0.00	395.00	171.00	570.00	
	Drafting Instrument	set	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	7,700.00	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%	48,000.00	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	940.00	460.00	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%	450.00	0.00	900.00	0.00	294.00	606.00	900.00	
	Waste Paper Bin	each	9.00	0.0%	100.0%	0.0%	30.0%	70.0%	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%	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	60,699.50	224,725.00		
	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	223,000.00		

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%	2,600.00	0.00	7,800.00	0.00	1,560.00	6,240.00	7,800.00	
	Double Deck Bed	each	5.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,500.00	0.00	22,500.00	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	4,290.00	17,160.00	21,450.00	
	Wardrobe Cabinet	each	8.00	0.0%	100.0%	0.0%	15.0%	85.0%	3,600.00	0.00	28,800.00	0.00	4,320.00	24,480.00	28,800.00	
	Dining Table Set with 6 chairs	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	10,500.00	0.00	4,320.00	0.00	3,180.00	18,000.00	21,200.00	
	Lounge Sofa Set with 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	
	Countertop	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	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	37.68	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%	50.0%		321.67	107.22	1,715.59	1,072.24	1,072.24	2,144.49	1.0%
	Total								321.67	214,556.00	1,715.59	69,171.31	147,421.78	216,593.27		
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%		
	Unit Rate								322.26	214,858.91	1,718.61	69,301.41	147,698.99	217,000.00		

Miscellaneous covers the cost for delivery, installation, etc.

#3106 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%	1,060.00	0.00	13,780.00	0.00	2,087.00	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	289.00	2,691.00	2,990.00	
	Bed Sheets	each	32.00	0.0%	100.0%	0.0%	10.0%	90.0%	250.00	0.00	13,600.00	0.00	1,500.00	11,700.00	13,600.00	
	Pillow Cover	each	26.00	0.0%	100.0%	0.0%	10.0%	90.0%	130.00	0.00	3,380.00	0.00	338.00	3,042.00	3,380.00	
	Refrigerator, 10 cuft	Unit	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,900.00	0.00	14,900.00	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%	55.0%	45.0%	320.00	0.00	4,160.00	0.00	2,268.00	1,892.00	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%	60.0%	40.0%	2,100.00	0.00	4,200.00	0.00	2,520.00	1,680.00	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	940.00	460.00	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%	30.0%	70.0%	450.00	0.00	900.00	0.00	245.00	655.00	900.00	
	Waste Paper Bin	each	10.00	0.0%	100.0%	0.0%	30.0%	70.0%	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%	50.0%		130.11	43.37	693.92	433.70	667.40	1,000.00	1.0%
	Total								130.11	86,783.37	693.92	34,695.70	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	693.86	34,692.73	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%	50.0%	50.0%	700.00	0.00	700.00	0.00	350.00	350.00	700.00	
	Stapler, No. 10	each	6.00	0.0%	100.0%	0.0%	50.0%	50.0%	300.00	0.00	1,800.00	0.00	900.00	900.00	1,800.00	
	Staple Remover	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	15.00	0.00	15.00	0.00	9.00	6.00	15.00	
	Two-Hole Puncher	each	6.00	0.0%	100.0%	0.0%	60.0%	40.0%	130.00	0.00	780.00	0.00	468.00	312.00	780.00	
	Tap 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%	38.00	0.00	988.00	0.00	494.00	494.00	988.00	
	Color Pencils, 12 colors	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	88.50	0.00	88.50	0.00	22.13	66.38	88.50	
	Pencil Sharpener, manually operated	each	1.00	0.0%	100.0%	0.0%	50.0%	50.0%	400.00	0.00	400.00	0.00	200.00	200.00	400.00	
	Triangle 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%	50.0									

W312 Office & Living Quarter Consumables

Unit: 1.00 month

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)
	Staple, No. 55	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	
	Cello Tape, 18mm x 50m	roll	1.40	0.0%	100.0%	0.0%	30.0%	65.0%	8.00	0.00	11.20	0.00	3.92	7.28	11.20	
	Welding Tape, 18mm x 25m	roll	4.00	0.0%	100.0%	0.0%	40.0%	60.0%	64.50	0.00	258.00	0.00	103.20	154.80	258.00	
	Masking Tape, 18mm x 20m	roll	0.50	0.0%	100.0%	0.0%	55.0%	65.0%	15.00	0.00	7.50	0.00	2.63	4.88	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%	26.00	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 5cm	each	11.00	0.0%	100.0%	0.0%	25.0%	75.0%	300.00	0.00	3,300.00	0.00	828.00	2,472.00	3,300.00	
	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, A6 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	356.40	396.00	
	Conv Paper, A4 size, 300 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%	330.00	0.00	330.00	0.00	49.50	280.50	330.00	
	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	
	Two-writer 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, 10x 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	
	Drv 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	57.60	134.40	192.00	
	Pager Clip, 50z	box	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	6.25	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	
	Glove, Tube 30z	each	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	2.50	0.00	5.00	0.00	0.50	4.50	5.00	
	Fluor 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	49.20	73.80	123.00	
	Printer Cartridge	each	0.35	0.0%	100.0%	0.0%	65.0%	35.0%	7,500.00	0.00	2,475.00	0.00	1,608.75	686.25	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	
	Toilet Paper, 9 rolls	pack	5.00	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	
	Sopp, 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	254.64	5.76	143.24	175.00	318.30	2.0%
	Total								47.75	15.92	254.64	5.76	143.24	175.00	318.30	
	Components (%)								0.3%	98.1%	1.6%	35.6%	64.4%	100.0%		
	Unit Rate								47.85	15,998.12	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.

W351 Relocation of Existing Lighting Poles

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.54	37.3%	14.7%	38.0%	40.9%	59.1%	892.00	131.51	70.62	279.55	197.15	284.53	481.68	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	2.39	24.6%	6.6%	68.8%	41.7%	58.2%	59.50	34.94	9.43	97.85	49.74	89.37	142.21	
W0025	Disposal of Demolished Debris	m3	0.54	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	12.02	9.54	52.42	34.68	39.30	73.98	
W0133	Backfill C	m3	2.93	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	48.52	50.27	326.07	209.89	214.96	424.85	
W0105	Excavation, Backhoe 0.61m3	m3	3.15	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	5.67	10.82	112.35	68.13	60.71	128.84	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.52	6.1%	14.8%	77.1%	51.5%	48.5%	93.00	3.94	7.13	37.29	21.59	23.47	48.36	
W0133	Backfill C	m3	2.63	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	43.55	45.12	292.68	188.40	192.95	381.35	
W0161	Gravel Foundation Fill	m3	0.05	24.8%	13.1%	62.1%	39.0%	61.0%	390.00	4.84	2.53	12.11	7.60	11.90	19.60	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.55	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	22.78	714.73	158.99	508.25	388.24	396.50	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	118.59	0.24	2.13	1.30	119.66	120.96	
W0236	Concrete Curing (obtain concrete)	m3	0.54	70.9%	8.7%	20.4%	84.0%	84.0%	8.85	3.39	0.42	0.97	0.76	4.02	4.78	
W0240	Formwork (obtain concrete H4m)	m2	3.60	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	470.41	322.53	6.27	23.49	775.71	799.20	
L002	Foreman	nd	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	215.98	0.00	0.00	0.00	215.98	215.98	
L012	Electrician	nd	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	185.24	0.00	0.00	0.00	185.24	185.24	
L020	Unskilled Labor	nd	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	235.50	0.00	0.00	0.00	235.50	235.50	
W0402-010	Truck Crane, Hydraulic 6-10t	hr	1.91	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	140.87	86.15	699.39	435.76	490.59	926.35	
W0405-013	Lift Car, 12~15m	hr	0.95	6.6%	3.0%	90.2%	54.1%	45.9%	1,180.00	76.31	33.46	1,011.22	607.02	513.99	1,121.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	49.54	148.93	287.86	248.22	248.22	496.43	496.43	8.0%
	Total								1,802.72	1,511.94	3,387.15	2,614.90	4,086.92	6,701.81		
	Components (%)								26.9%	22.6%	50.3%	39.0%	61.0%	100.0%		
	Unit Rate								1,802.24	1,511.53	3,386.23	2,614.19	4,085.81	6,700.00		

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	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	72.00	24.6%	6.6%	68.8%	41.7%	58.2%	59.50	1,052.45	283.94	2,947.81	1,787.45	2,496.35	4,284.00	
W0133	Backfill C	m3	72.00	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	1,192.24	1,235.22	8,012.54	5,157.61	5,282.39	10,440.00	
W0105	Excavation, Backhoe 0.61m3	m3	72.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	1,293.57	247.38	2,567.87	1,357.17	1,387.53	2,944.80	
W0162	Selected Sand Fill	m3	36.00	34.0%	15.2%	50.7%	33.1%	66.9%	276.00	3,382.82	1,510.91	3,042.27	3,285.86	6,650.34	9,936.00	
W0133	Backfill C	m3	36.00	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	596.12	617.51	4,006.27	2,378.81	2,641.19	5,220.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	36.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	272.69	493.93	2,581.38	1,723.35	1,624.65	3,348.00	
W03051	Electric Cable	m	103.00	0.0%	100.0%	0.0%	5									

#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)
W0108	Excavation, Backhoe 0.61m3 + Manpower	m3	22.87	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	334.30	90.19	936.28	567.77	793.00	1,360.77	
W0133	Backfill C	m3	22.87	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	378.70	392.33	2,545.10	1,638.26	1,677.89	3,316.15	
W0105	Excavation, Backhoe 0.61m3	m3	22.87	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	41.18	78.57	815.85	494.82	440.76	935.38	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.02	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	207.95	6,523.49	1,451.16	4,639.06	3,543.54	8,182.60	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	1,080.47	2.16	19.45	11.89	1,090.19	1,102.08	
W0236	Concrete Curbing (plain concrete)	m3	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	30.88	3.80	8.86	6.96	36.58	43.54	
W0162	Selected Sand Fill	m3	8.86	34.0%	15.2%	50.7%	33.1%	66.9%	278.00	822.53	371.85	1,240.96	808.64	1,636.72	2,445.36	
W0133	Backfill C	m3	4.63	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	75.01	77.72	504.12	324.50	332.35	656.85	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	18.34	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	138.92	251.63	1,315.07	877.95	827.67	1,705.62	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication Ø810	m	10.00	10.2%	68.0%	21.8%	53.6%	46.4%	1,120.00	1,142.75	7,613.90	2,443.35	6,001.82	5,198.18	11,200.00	
W0342	Precast Concrete Pipe Lavina Ø610	m	10.00	45.6%	8.7%	46.2%	28.7%	70.3%	244.00	1,111.80	200.85	1,127.34	724.50	1,715.50	2,440.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									3,374.48	15,606.53	12,407.34	16,095.95	17,292.40	33,988.35	
	Components (%)									16.1%	46.7%	37.2%	48.2%	51.8%	100.0%	
	Unit Rate	m								537.64	1,561.20	1,241.17	1,610.16	1,729.84	3,340.00	

#3512 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%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
W0122	Crushed Aggregate, transported	m3	19.80	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	463.48	793.40	3,851.52	2,402.74	2,705.66	5,108.40	Loss 32.0%
R0907-090	Plate Compactor	day	0.85	0.0%	17.7%	82.2%	56.2%	43.8%	780.00	0.00	117.35	545.65	372.62	290.38	663.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		161.12	322.24	322.24	322.24	805.51	805.51	12.0%
	Total									1,566.61	1,233.00	4,719.41	3,097.61	4,421.40	7,519.01	
	Components (%)									20.8%	16.4%	62.3%	41.2%	58.8%	100.0%	
	Unit Rate	m2								15.67	12.33	47.20	30.98	44.22	75.20	

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)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
	Compensation	LS	1.00	50.0%	50.0%	0.0%	0.0%	100.0%	94,290.00	47,145.00	47,145.00	0.00	0.00	94,290.00	94,290.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		383.19	766.38	766.38	766.38	1,149.56	1,149.56	2.0%
	Total									49,028.12	47,911.38	766.38	766.38	96,947.58	97,713.96	
	Components (%)									50.2%	49.0%	0.8%	0.8%	99.2%	100.0%	
	Unit Rate	km								49,029.19	47,904.54	766.21	766.27	96,933.73	97,700.00	

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 households = 20 households
Number of person per household = 3 persons/household
Minimum wage = 224.50 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	day	1.00	10.0%	55.0%	33.0%	40.0%	60.0%	874.00	87.40	370.70	235.90	269.60	404.40	874.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									87.40	370.70	235.90	269.60	404.40	874.00	
	Components (%)									10.0%	55.0%	33.0%	40.0%	60.0%	100.0%	
	Unit Rate	day								87.40	370.70	235.90	269.60	404.40	874.00	

Health and Safety Requirements = Minimum wage x a
Minimum wage = 224.50 PP/day
a: Coefficient

#4121 Overseas Development Assistance (ODA) Recognition Platte

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 0.61m3 + Manpower	m3	4.70	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	68.70	18.54	192.41	116.66	162.97	379.65	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.60	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	4.56	8.23	43.02	28.72	27.08	55.80	
W0133	Backfill C	m3	4.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	67.89	70.34	458.27	293.70	300.80	594.50	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	0.61	2.5%	79.7%	17.7%	56.7%	43.3%	1,630.00	25.27	792.70	176.34	563.71	430.59	994.90	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.60	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	131.76	0.26	2.37	1.45	132.95	134.40	
W0236	Concrete Curbing (plain concrete)	m3	0.60	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	3.77	0.46	1.08	0.85	4.46	5.31	
W0240	Formwork (plain concrete H4m)	m2	4.80	58.0%	40.4%	0.8%	2.9%	97.1%	222.00	627.21	430.03	3.36	31.32	1,034.28	1,065.60	
W07201	Traffic Sign Board (aluminum)	m2	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,280.80	28,690.20	81,972.00	
W08708	Steel Gas Pipe, Ø125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	5,633.60	0.00	3,380.16	2,253.44	5,633.60	
L002	Foreman	md	0.11	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	62.26	0.00	0.00	0.00	62.26	62.26	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	60.0%		545.48	1,090.96	1,090.96	1,363.70	1,363.70	2,727.41	3.0%
	Total									1,653.07	90,017.13	1,970.82	59,062.10	34,578.91	93,641.01	
	Components (%)									1.8%	98.1%	2.1%	63.1%	36.9%	100.0%	
	Unit Rate	each								1,652.94	89,977.70	1,968.95	59,036.20	34,563.77	93,600.00	

Miscellaneous covers the costs for fixtures, paints, etc.