

5. Summary of Basic Work Costs

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0001	Grass Cutting	m2	90.9%	0.9%	8.2%	4.5%	95.5%	1.11	
W0002	Tree Cutting	m2	92.6%	0.7%	6.7%	3.7%	96.3%	0.93	
W0003	Grubbing	m2	4.0%	7.9%	88.0%	53.0%	47.0%	24.90	
W0004	Burning	m2	100.0%	0.0%	0.0%	0.0%	100.0%	1.94	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	11.8%	6.3%	81.8%	48.6%	51.4%	625.00	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	12.7%	7.5%	79.8%	48.1%	51.9%	1,280.00	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	27.7%	14.6%	57.7%	40.7%	59.3%	896.00	
W0014	Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)	m3	46.7%	10.9%	42.4%	30.0%	70.0%	1,700.00	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	3.5%	6.5%	90.1%	53.2%	46.8%	56.50	
W0016	Excavation of Gravel Pavement	m3	4.5%	8.4%	87.1%	52.9%	47.1%	10.30	
W0025	Disposal of Demolished Debris	m3	16.5%	12.9%	70.6%	46.8%	53.2%	138.00	
W0101	Excavation, Bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	25.40	
W0102	Excavation, Backhoe 0.35m3	m3	6.5%	8.4%	85.1%	51.8%	48.2%	49.40	
W0105	Excavation, Backhoe 0.61m3	m3	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	
W0107	Excavation, Clamshell + Backhoe	m3	8.0%	8.1%	83.9%	52.8%	47.2%	91.60	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	3.5%	6.5%	90.1%	53.2%	46.8%	185.00	
W0109	Excavation, Manpower	m3	100.0%	0.0%	0.0%	0.0%	100.0%	134.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	
W0115	Disposal of Surplus Soil (manpower loading)	m3	46.1%	10.7%	43.1%	30.4%	69.6%	104.00	
W0121	Borrow Soil, transported	m3	5.9%	26.4%	67.8%	45.0%	55.0%	108.00	
W0122	Crushed Aggregate, transported	m3	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	
W0123	Excavated Soil, transported	m3	7.4%	13.3%	79.3%	51.8%	48.2%	63.70	
W0128	Selected Sand, transported	m3	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	
W0129	Gravel/Stone, transported	m3	11.8%	18.6%	69.5%	44.8%	55.2%	197.00	
W0131	Backfill A	m3	3.6%	8.0%	88.4%	53.3%	46.7%	88.80	
W0132	Backfill B	m3	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	
W0133	Backfill C	m3	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	
W0134	Backfill D	m3	13.5%	12.6%	73.8%	48.4%	51.6%	200.00	
W0135	Backfill, Manpower + Compactor	m3	78.4%	5.6%	16.0%	12.3%	87.7%	77.50	
W0141	Filling & Laying, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	
W0142	Filling & Laying, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	29.50	
W0145	Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	
W0146	Compaction, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	26.20	
W0147	Compaction, tire roller 8~20t	m3	4.4%	8.0%	87.6%	52.7%	47.3%	10.40	
W0148	Compaction, tamper	m3	12.6%	17.2%	70.2%	49.3%	50.7%	76.30	
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1.6%	8.1%	90.3%	54.3%	45.7%	56.20	
W0150	Filling, Laying & Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	51.60	
W0151	Slope Formation by Bulldozer	m2	7.5%	7.4%	85.0%	51.1%	48.9%	39.70	
W0152	Slope Formation by Backhoe	m2	10.1%	7.9%	82.0%	49.8%	50.2%	48.10	
W0161	Gravel Foundation Fill	m3	25.2%	13.0%	61.8%	38.8%	61.2%	391.00	
W0162	Selected Sand Fill	m3	34.5%	15.1%	50.4%	32.9%	67.1%	277.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	2.6%	80.0%	17.4%	56.5%	43.5%	1,470.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	2.9%	77.5%	19.6%	56.2%	43.8%	1,360.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.3%	82.6%	15.0%	57.0%	43.0%	1,660.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.3%	83.2%	14.5%	57.0%	43.0%	1,680.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	2.2%	83.1%	14.7%	57.8%	42.2%	1,740.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.1%	84.3%	13.6%	57.9%	42.1%	1,820.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.8%	86.4%	11.7%	58.4%	41.6%	2,110.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.7%	79.4%	17.9%	57.2%	42.8%	1,490.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	
W0221	Mortar (1:3)	m3	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	
W0222	Mortar (1:2)	m3	1.5%	94.0%	4.5%	58.2%	41.8%	2,340.00	
W0225	Grout (non-shrink)	m3	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.5%	0.2%	70.3%	37.7%	62.3%	511.00	
W0234	Concrete Pouring by Truck Crane	m3	31.0%	5.7%	63.3%	38.2%	61.8%	282.00	
W0235	Concrete Pouring by Manpower for small	m3	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	
W0240	Formwork (plain concrete H<4m)	m2	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	47.6%	33.4%	19.1%	13.5%	86.5%	285.00	
W0243	Formwork (lean concrete)	m2	41.6%	57.6%	0.8%	3.8%	96.2%	153.00	
W0244	Formwork for Bridge Superstructures	m2	58.1%	26.6%	15.3%	11.0%	89.0%	358.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	63.0%	21.4%	15.6%	11.3%	88.7%	473.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 460 (18")	m	9.8%	66.6%	23.6%	53.4%	46.6%	524.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 610 (24")	m	10.0%	66.8%	23.1%	53.4%	46.6%	865.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 760 (30")	m	10.2%	67.0%	22.9%	53.4%	46.6%	1,290.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 910 (36")	m	10.6%	67.4%	22.0%	53.3%	46.7%	1,980.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1070 (42")	m	10.6%	67.4%	22.0%	53.3%	46.7%	2,590.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1220 (48")	m	10.6%	67.3%	22.0%	53.3%	46.7%	3,260.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1520 (60")	m	10.6%	67.4%	22.0%	53.3%	46.7%	4,880.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 460 (18")	m	10.5%	68.6%	20.9%	53.5%	46.5%	579.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 610 (24")	m	10.5%	68.5%	21.0%	53.5%	46.5%	951.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 760 (30")	m	10.3%	68.4%	21.2%	53.5%	46.5%	1,330.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 910 (36")	m	11.0%	68.8%	20.3%	53.4%	46.6%	2,140.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1070 (42")	m	10.9%	68.7%	20.4%	53.5%	46.5%	2,690.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1220 (48")	m	10.9%	68.7%	20.4%	53.4%	46.6%	3,490.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1520 (60")	m	10.9%	68.8%	20.3%	53.4%	46.6%	5,190.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 460 (18")	m	10.5%	68.5%	20.9%	53.5%	46.5%	747.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 610 (24")	m	10.4%	68.5%	21.2%	53.5%	46.5%	1,110.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 760 (30")	m	10.5%	68.5%	21.0%	53.5%	46.5%	1,640.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication ϕ 910 (36")	m	10.9%	68.4%	20.6%	53.4%	46.6%	2,640.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1070 (42")	m	11.3%	68.7%	20.0%	53.4%	46.6%	3,960.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1220 (48")	m	10.9%	68.4%	20.7%	53.4%	46.6%	4,310.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1520 (60")	m	11.3%	68.5%	20.2%	53.4%	46.6%	7,480.00	
W0341	Precast Concrete Pipe Laying ϕ 460 (18")	m	47.4%	8.0%	44.6%	28.7%	71.3%	202.00	
W0342	Precast Concrete Pipe Laying ϕ 610 (24")	m	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	
W0343	Precast Concrete Pipe Laying ϕ 760 (30")	m	47.3%	8.1%	44.6%	28.7%	71.3%	303.00	
W0344	Precast Concrete Pipe Laying ϕ 910 (36")	m	31.3%	8.6%	60.1%	37.5%	62.5%	516.00	
W0345	Precast Concrete Pipe Laying ϕ 1070 (42")	m	31.8%	8.6%	59.7%	37.2%	62.8%	594.00	
W0346	Precast Concrete Pipe Laying ϕ 1220 (48")	m	31.5%	8.6%	59.9%	37.4%	62.6%	665.00	
W0347	Precast Concrete Pipe Laying ϕ 1520 (60")	m	27.1%	8.5%	64.4%	39.8%	60.2%	938.00	
W0351	Precast Concrete Pipe Removal ϕ 460 (18")	m	46.8%	5.9%	47.3%	29.1%	70.9%	62.00	
W0352	Precast Concrete Pipe Removal ϕ 610 (24")	m	45.3%	6.0%	48.6%	29.9%	70.1%	76.00	
W0353	Precast Concrete Pipe Removal ϕ 760 (30")	m	46.6%	5.9%	47.5%	29.2%	70.8%	93.60	
W0354	Precast Concrete Pipe Removal ϕ 910 (36")	m	31.0%	6.4%	62.5%	37.7%	62.3%	159.00	
W0355	Precast Concrete Pipe Removal ϕ 1070 (42")	m	31.5%	6.4%	62.1%	37.4%	62.6%	183.00	
W0356	Precast Concrete Pipe Removal ϕ 1220 (48")	m	31.2%	6.4%	62.4%	37.6%	62.4%	205.00	
W0357	Precast Concrete Pipe Removal ϕ 1520 (60")	m	27.0%	6.3%	66.7%	39.9%	60.1%	289.00	
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	10.4%	13.5%	76.1%	49.9%	50.1%	200.00	
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	10.4%	13.5%	76.1%	49.9%	50.1%	256.00	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	10.4%	13.5%	76.2%	49.9%	50.1%	169.00	
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	10.4%	13.5%	76.1%	49.8%	50.2%	117.00	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	10.3%	13.4%	76.2%	49.9%	50.1%	102.00	
W0411	Temporary Struts & Supports Installation	t	34.0%	9.4%	56.6%	36.7%	63.3%	1,400.00	
W0412	Temporary Struts & Supports Removal	t	35.7%	9.1%	55.2%	35.5%	64.5%	833.00	
W0413	Temporary Struts & Tie Rod Installation	t	31.3%	11.0%	57.7%	38.2%	61.8%	4,240.00	
W0414	Temporary Struts & Supports Removal	t	29.1%	9.4%	61.5%	39.1%	60.9%	2,130.00	
W0415	Temporary Deck Plate Installation	m2	35.7%	5.8%	58.5%	35.5%	64.5%	78.70	
W0416	Temporary Deck Plate Removal	m2	35.7%	5.8%	58.5%	35.5%	64.5%	43.00	
W0417	Temporary Deck Plate Support Beam Installation	t	37.1%	9.5%	53.5%	34.9%	65.1%	1,250.00	
W0418	Temporary Deck Plate Support Beam Removal	t	38.3%	8.2%	53.5%	34.0%	66.0%	746.00	
W0421	Temporary Access Bridge Superstructure Installation	t	21.9%	8.0%	70.1%	43.2%	56.8%	1,450.00	
W0422	Temporary Access Bridge Superstructure Removal	t	23.4%	8.2%	68.4%	42.4%	57.6%	1,010.00	
W0423	Temporary Access Bridge Railing Installation	m	36.5%	6.7%	56.7%	35.1%	64.9%	106.00	
W0424	Temporary Access Bridge Railing Removal	m	38.5%	5.4%	56.1%	34.0%	66.0%	57.30	
W0431	Temporary Drain Pump Installation & Removal	set	46.7%	7.1%	46.2%	29.7%	70.3%	2,900.00	
W0432	Temporary Drain Pump Operation	day	8.3%	20.7%	71.0%	51.3%	48.7%	1,190.00	
W0441	Temporary Frame Support Installation & Removal	m3	59.4%	3.9%	36.7%	22.3%	77.7%	53.10	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0442	Temporary Frame Support Depreciation	m3·d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	
W0501	Ground Assembly of Structural Steel Bridge	t	11.6%	3.1%	85.3%	48.2%	51.8%	1,270.00	
W0502	Erection of Structural Steel Bridge Members	t	11.0%	4.8%	84.2%	48.3%	51.7%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.5%	93.2%	2.3%	66.1%	33.9%	43.70	
W0504	Finish Painting of Structural Steel Bridge	m2	42.5%	48.4%	9.1%	36.1%	63.9%	133.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.6%	91.3%	4.1%	48.3%	51.7%	16,000.00	
W0506	Site Welding for Steel Bridge	m	23.7%	34.5%	41.9%	44.3%	55.7%	3,130.00	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	76.3%	11.8%	11.8%	13.0%	87.0%	4,650.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	452.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	6.0%	93.8%	0.2%	64.9%	35.1%	935.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.3%	91.5%	0.2%	62.7%	37.3%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	95.9%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.4%	1.7%	70.6%	29.4%	2,070.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m3	6.0%	75.2%	18.8%	55.3%	44.7%	2,100.00	
W0551	Precast PC Girder Erection (W < 12.5t)	t	25.5%	3.9%	70.6%	40.8%	59.2%	219.00	
W0552	Precast PC Girder Erection (12.5 ≤ W < 15.0t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	231.00	
W0553	Precast PC Girder Erection (15.0 ≤ W < 17.5t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	219.00	
W0554	Precast PC Girder Erection (17.5 ≤ W < 20t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	199.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	7.5%	1.8%	90.8%	50.6%	49.5%	378.00	
W0557	Precast PC Girder Erection (60.0 ≤ W < 75.0 t)	t	6.3%	1.8%	91.9%	51.1%	48.9%	424.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	5.8%	1.8%	92.4%	51.3%	48.7%	431.00	
W0601	Pier Protection Concrete Block Type A Production & Laying	each	14.5%	62.6%	22.9%	50.2%	49.8%	3,040.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.9%	62.2%	22.9%	49.9%	50.1%	2,900.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	14.9%	62.0%	23.1%	49.9%	50.1%	2,860.00	
W0611	Stone Laying	m3	10.0%	14.3%	75.7%	47.5%	52.5%	379.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m3	34.7%	17.7%	47.6%	35.2%	64.8%	428.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.7%	44.4%	30.9%	39.0%	61.0%	7,880.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m3	29.5%	29.9%	40.5%	37.3%	62.7%	173.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.9%	29.1%	46.0%	39.7%	60.3%	8,370.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m3	28.4%	28.6%	43.0%	37.8%	62.2%	180.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m3	21.7%	40.5%	37.9%	41.1%	58.9%	94.20	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m3	30.1%	28.7%	41.2%	37.1%	62.9%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.7%	17.7%	58.6%	40.9%	59.1%	337,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,120.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	5,070.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	116.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.7%	84.3%	4.1%	60.3%	39.7%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.0%	92.4%	6.7%	70.9%	29.1%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.4%	87.4%	6.2%	68.3%	31.7%	9,570.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.4%	84.5%	4.1%	60.5%	39.5%	153,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.1%	86.6%	8.3%	67.0%	33.0%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.5%	23.3%	36.3%	34.4%	65.6%	829.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0682	PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Transversal)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0683	PC Bar Tensioning, (ϕ 32mm) for PC Box Girder (Transversal)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0686	PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	
W0687	PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0688	PC Bar Tensioning, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	90.8%	7.9%	62.9%	37.1%	116.00	
W0702	Precast Concrete Cover (580x480x70),	each	89.3%	1.1%	9.6%	5.4%	94.6%	10.50	
W0703	Precast Concrete Cover (680x580x75), furnish	each	4.3%	90.8%	5.0%	60.7%	39.3%	188.00	
W0704	Precast Concrete Cover (680x580x75),	each	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	8.7%	85.4%	5.9%	62.4%	37.6%	64.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	9.1%	89.9%	1.0%	63.1%	36.9%	1,140.00	
W0731	Rubble Concrete	m3	6.3%	51.1%	42.6%	52.5%	47.5%	931.00	
W0732	Granular Bedding for Rubble Concrete	m3	27.8%	12.4%	59.8%	37.3%	62.7%	400.00	
W0733	Washout Prevention Filter, furnish and laying	m2	2.1%	96.1%	1.8%	58.5%	41.5%	91.80	
W0741	Grouted Riprap Class A	m3	15.8%	63.6%	20.8%	47.9%	52.1%	736.00	
W0742	Stone Masonry, laid	m3	14.5%	69.9%	15.6%	49.2%	50.8%	1,010.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.7%	49.5%	1.8%	18.8%	81.2%	39.40	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	26.8%	12.6%	60.6%	38.5%	61.5%	54.20	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	17.0%	69.2%	6.4%	46.0%	46.6%	416.00	
W0871	Guardrail Type A, furnish	m	8.0%	78.8%	13.2%	59.1%	40.9%	903.00	
W0872	Guardrail Type B, furnish	m	9.3%	76.4%	14.3%	58.0%	42.0%	708.00	
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	7.1%	81.6%	11.3%	60.1%	39.9%	876.00	
W0911	Digging Out Tree, Low Tree H \leq 1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	18.90	
W0912	Digging Out Tree, Medium Tree 1.5m<H \leq 3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	36.30	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H \leq 3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	64.20	
W0921	Tree Haulage, Low Tree H \leq 1.5m	each	13.7%	19.2%	67.1%	48.9%	51.1%	24.50	
W0922	Tree Haulage, Medium Tree 1.5m<H \leq 3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	47.10	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H \leq 3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	81.40	
W0931	Tree Planting, Low Tree H \leq 1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	9.27	
W0932	Tree Planting, Medium Tree 1.5m<H \leq 3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	27.70	
W0933	Tree Planting, High Tree (young tree) 1.5m<H \leq 3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	115.00	
W0951	Precast Curbstone for Planter Square, Furnish	m	13.3%	69.1%	17.6%	49.8%	50.2%	46.40	
W0952	Precast Curbstone for Planter Square, Laying	m	96.2%	3.1%	0.8%	1.9%	98.1%	35.00	
W0956	Treading Prevention Board for Planter Square, Furnish	m2	13.7%	71.7%	14.5%	51.7%	48.3%	248.00	
W0957	Treading Prevention Board for Planter Square, Laying	m2	93.5%	4.6%	2.0%	3.3%	96.7%	32.80	
W1001	Underground Cable Duct	m	13.3%	67.9%	18.8%	47.0%	53.0%	363.00	
W1011	Electric Cable Laying	m	22.1%	75.9%	1.9%	42.6%	57.4%	84.20	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	6.9%	69.3%	23.8%	59.7%	40.3%	22,200.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.2%	68.5%	24.3%	59.4%	40.6%	21,200.00	
W1103	Traffic Signal Posts Type B ϕ 114.3mm x 4.2m, Furnished	each	12.4%	53.0%	34.6%	53.6%	46.4%	9,400.00	
W1104	Traffic Signal Posts Type C ϕ 114.3mm x 3.4m, Furnished	each	12.8%	51.7%	35.5%	53.1%	46.9%	9,060.00	
W1105	Pedestrian Signal Posts Type D ϕ 114.3mm x 3.0m, Furnished	each	13.0%	51.1%	35.8%	52.9%	47.1%	8,890.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.5%	60.5%	29.1%	56.5%	43.5%	16,600.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.2%	61.2%	28.6%	56.8%	43.2%	17,100.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	24.6%	8.0%	67.3%	41.7%	58.3%	40,500.00	
W2002	Transportation of Disassembled Equipment	LS	4.2%	9.9%	85.9%	53.1%	46.9%	64,100.00	
W2003	Other Equipment & Material Haulage	LS	9.1%	15.3%	75.6%	50.9%	49.1%	85,900.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	345,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.6%	8.1%	90.3%	54.3%	45.7%	2.54	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.7%	84.2%	3.0%	36.4%	63.6%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.8%	82.9%	3.4%	37.4%	62.6%	306.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.7%	67.0%	25.2%	60.2%	39.8%	39,000.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	8.4%	79.9%	11.8%	54.3%	45.7%	159.00	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	2.5%	92.9%	4.6%	62.1%	37.9%	629.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W3006	Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)	m2	2.5%	92.9%	4.6%	62.1%	37.9%	625.00	
W3007	Plain Cement Floor Finish	m2	7.7%	85.4%	6.8%	54.3%	45.7%	63.20	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.2%	85.0%	6.8%	54.0%	46.0%	63.60	
W3009	Unglazed Tile Finish (8" x 8")	m2	1.7%	97.8%	0.5%	60.2%	39.8%	589.00	
W3010	Gypsum Board Ceiling	m2	1.7%	97.8%	0.5%	60.2%	39.8%	351.00	
W3011	Plain Cement Mortar Wall Finish	m2	9.1%	84.1%	6.8%	53.4%	46.6%	64.20	
W3012	Steel Fixed Louver	each	15.1%	35.8%	49.1%	49.2%	50.8%	7,140.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L. S.	5.3%	90.6%	4.0%	41.3%	58.7%	355,000.00	
W3014	Lighting and Powers	L. S.	5.1%	93.4%	1.5%	56.6%	43.4%	139,000.00	
W3015	Sewer Water Line	L. S.	4.5%	94.8%	0.7%	49.7%	50.3%	115,000.00	
W3016	Septic Tank	each	14.6%	63.6%	21.8%	44.1%	55.9%	20,600.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.3%	93.2%	3.5%	49.1%	50.9%	1,840.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.5%	92.7%	1.7%	14.6%	85.4%	127.00	
W3019	Temporary Office Rental	month	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	0.0%	80.8%	19.2%	34.6%	65.4%	1,070.00	
W3102	Furniture and Fixtures for Field Office	L. S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L. S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L. S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L. S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L. S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll/ Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L. S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L. S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US\$1.50 million
W3501	Relocation of Existing Lighting Poles	each	27.3%	22.5%	50.2%	38.8%	61.2%	6,710.00	
W3502	Relocation of Underground Conduit	m	18.3%	24.6%	57.1%	44.6%	55.4%	444.00	
W3503	Relocation of Watermain	m	5.2%	77.0%	17.7%	55.7%	44.3%	1,460.00	
W3504	Relocation of Sewer Pipe	m	16.4%	47.0%	36.6%	48.1%	51.9%	3,310.00	
W3511	Repair & Maintenance of Existing Access Road	m2	21.1%	16.4%	62.5%	41.1%	58.9%	75.40	
W4001	Soil Investigation Boring	m	18.0%	8.0%	74.0%	50.0%	50.0%	2,950.00	
W4002	Soil Investigation Standard Penetration Test	each	25.0%	5.0%	70.0%	50.0%	50.0%	1,630.00	
W4003	Soil Investigation Laboratory Test	set	30.0%	15.0%	55.0%	50.0%	50.0%	18,900.00	
W4101	Environmental Compliance	km	50.2%	49.0%	0.8%	0.8%	99.2%	99,500.00	
W4111	Health and Safety Requirements	day	10.0%	55.0%	35.0%	40.0%	60.0%	686.00	
W4121	Overseas Development Assistance (ODA) Recognition Plate	each	1.8%	96.1%	2.1%	63.1%	36.9%	93,600.00	
W4201	Contingency	L. S.	15.0%	45.0%	40.0%	50.0%	50.0%	1,200,000.00	

6. Breakdown of Basic Work Cost

Currency Exchange Rate : 1 US\$ = 52.26 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	Total (PP)		
L002	Foreman	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	218.88	0.00	0.00	0.00	0.00	218.88	218.88	
L019	Skilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	597.00	0.00	0.00	0.00	0.00	597.00	597.00	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	0.00	96.00	96.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	10.12	91.07	50.59	50.59	101.19	101.19	10.0%
	Total									1,011.88	10.12	91.07	50.59	50.59	1,113.67	1,113.67	
	Components (%)									90.9%	0.9%	8.2%	4.5%	95.5%	100.0%		
	Unit Rate	m2								1.01	0.01	0.09	0.05	1.06	1.1		

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	Total (PP)				
L002	Foreman	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	184.32	0.00	0.00	0.00	0.00	184.32	184.32			
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	471.50	0.00	0.00	0.00	0.00	471.50	471.50			
L020	Unskilled Labor	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	204.80	0.00	0.00	0.00	0.00	204.80	204.80			
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	6.88	61.96	34.42	34.42	68.85	8.0%			
	Total									869.62	6.88	61.96	34.42	34.42	929.47				
	Components (%)									92.4%	0.7%	6.7%	3.7%	96.3%	100.0%				
	Unit Rate	m2								0.86	0.01	0.06	0.03	0.89	0.93				

Miscellaneous covers the cost for chain saw, etc.

W0003 Grubbing			Unit: 1,000.00 m2												
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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%	576.00	97.92	0.00	0.00	0.00	97.92	97.92
L020	Unskilled Labor	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	54.40	0.00	0.00	0.00	54.40	54.40
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	6.40	3.0%	7.8%	89.2%	53.6%	45.4%	2,700.00	518.40	1,347.84	15,413.76	9,258.46	8,021.64	17,280.00
R0102-081	Backhoe, hydraulic, crawler, 0.6[m3	hr	4.30	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	335.69	628.49	6,516.82	3,956.38	3,625.62	7,482.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,007.41	1,976.33	21,930.58	13,214.84	11,699.48	24,914.32
	Components (%)									4.0%	7.9%	88.0%	53.0%	47.0%	100.0%
	Unit Rate	m2								1.01	1.98	21.92	13.21	11.69	24.90

W0004 Burning				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	Total (PP)	
L002	Foreman	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	374.40	0.00	0.00	0.00	374.40	374.40	
L020	Unskilled Labor	md	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,161.60	0.00	0.00	0.00	1,161.60	1,161.60	
L020	Unskilled Labor	md	1.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	403.20	0.00	0.00	0.00	403.20	403.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,939.20	0.00	0.00	0.00	1,939.20	1,939.20	0.0%
	Component (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	m2								1.94	0.00	0.00	0.00	1.94	1.94	

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 (Pv)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (Pv)		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	0.00	288.00	288.00	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	0.00	256.00	256.00	
R0202-000	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	1,295.00	703.04	591.96	1,295.00		
R0102-081	Backhoe, hydraulic, crawler, 0.61m3	hr	2.50	4.6%	8.4%	87.1%	52.9%	47.1%	1,740.00	195.75	365.40	3,786.86	2,300.22	2,049.78	4,350.00		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	30.95	30.95	34.04	27.65	61.89		1.0%
	Total									739.75	396.35	5,114.80	3,037.30	3,213.59	6,250.89		
	Components (%)									11.8%	5.3%	81.8%	48.6%	61.4%	100.0%		
	Unit Rate	m3								73.96	39.63	511.41	303.69	321.31	625.00		

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

W0012 Demolition by Crawler Drill (Heavily Reinforced Structures)										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	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	0.00	345.60	345.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	809.00	356.30	0.00	0.00	0.00	0.00	356.30	356.30	
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	544.00	0.00	0.00	0.00	0.00	544.00	544.00	
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	2,838.20	1,377.95	1,160.25	2,538.20		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	4.90	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	383.67	716.18	4,508.43	4,017.57	8,526.00			
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	246.20	270.82	270.82	221.58	492.40	4.0%	
	Total									1,829.67	962.39	10,210.55	6,157.21	5,645.30	12,802.00		
	Component (%)									12.7%	7.5%	79.8%	49.1%	51.9%	100.0%		
	Unit Rate	m3								182.93	96.22	1,020.86	615.60	564.40	1,280.00		

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

W0013 Demolition by Pneumatic Handhold 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	Total (PP)		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60		
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00		
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,312.00	0.00	0.00	0.00	1,312.00	1,312.00		
R0204-020	Pneumatic Breaker, Handhold	dev	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 120-160 cfm (3.6-4.6m3/min)	day	2.10	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,220.14	3,188.86	2,511.92	1,877.08	4,389.00		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	87.88	87.88	98.67	79.09	175.76		2.0%
	Total									2,479.60	1,308.02	5,176.14	3,650.69	5,313.07	6,963.76		
	Components (%)									27.7%	14.6%	57.7%	40.7%	59.3%	100.0%		
	Unit Rate	m3								247.85	130.75	517.40	365.02	531.08	896.00		

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

W0014 Demolition by Pneumatic Handhold 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	Total (PP)	
L002	Foreman	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,497.60	0.00	0.00	0.00	1,497.60	1,497.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	358.30	0.00	0.00	0.00	358.30	358.30	
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,854.00	0.00	0.00	0.00	3,854.00	3,854.00	
L020	Unskilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,208.00	0.00	0.00	0.00	2,208.00	2,208.00	
R0204-020	Pneumatic Breaker, Handhold	day	5.80	0.0%	0.0%	100.0%	84.3%	45.7%	457.00	0.00	0.00	2,650.80	1,439.10	1,211.60	2,650.60	
R1002-160	Air Compressor 128-160 cfm (3.6-4.5m3/min)	day	2.90	0.0%	27.8%	72.2%	62.4%	42.8%	2,090.00	0.00	1,684.96	4,376.04	3,468.84	2,692.16	6,061.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	166.28	166.28	182.90	149.85	332.55	2.0%
Total										7,915.90	1,851.23	7,192.32	5,090.84	11,869.21	16,960.05	
Components (%)										46.7%	10.9%	42.4%	30.0%	70.0%	100.0%	
Unit Rate									m3	793.45	185.56	720.90	510.28	1,189.72	1,700.00	

W0016 Excavation of Gravel Pavement

Excavation of Gravel Pavement										Unit	100 cu. m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.59	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	46.20	86.23	894.17	642.85	483.76	1,026.80	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									46.20	86.23	894.17	642.85	483.76	1,026.80	
	Components (%)									4.5%	8.4%	87.1%	52.9%	47.1%	100.0%	
	Unit Rate	m	0							0.45	0.57	8.97	5.45	4.85	10.30	
Q = 3600-q-f-E/Cm										Gravel Pavement Thickness = 0.250 m						
Q : Excavation capacity per hour = 42.48 m3/hr										E : Efficiency = 0.60						
q : Standard capacity per cycle = 0.59 m3/cycle										Cm: Cycle Time = 30.00 sec						
f : Volume coefficient = 1.00																

W0026 Disposal of Demolished Debris

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	m3	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	0.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.28	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	21.92	40.92	424.35	257.62	229.88	487.20	
R0501-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.26	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	76.87	136.23	647.95	385.80	375.24	761.04	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									226.79	177.15	972.30	643.43	732.81	1,376.24	
	Components (%)									16.5%	12.9%	70.6%	46.8%	53.2%	100.0%	
	Unit Rate	m3								22.74	17.76	97.50	64.52	73.48	138.00	
Q = 3600-q-f-E/Cm (Backhoe)																
Q : Excavation Volume per hour			=	35.4	m3/h	Q = q-f-E/Cm (Dump Truck)										
q : Excavation Volume per Cycle			=	0.59	m3	Q : Transportation Volume per hour										
f : Volume Coefficient			=	1.00		= 7.91 m3/hr										
E : Efficiency			=	0.50		q : Loading Capacity of a Truck										
Cm: Cycle Time			=	30	sec	= 1.00										
V : Vehicle speed																
= 30.00 km/hr																
a : Loading time																
= 0.27 hr																
L : Average Distance to Disposal Point																
= 5.00 km																

W0101 Excavation, Bulldozer 21t

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		
R0101-021	Tractor, crawler w/dzer (Bulldozer, 21t)	hr	0.61	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	40.60	206.55	2,291.45	1,377.19	1,160.41	2,537.60	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									40.60	206.55	2,291.45	1,377.19	1,160.41	2,537.60	
	Components (%)									1.6%	8.1%	90.3%	54.3%	45.7%	100.0%	
	Unit Rate	m3								0.41	2.06	22.91	13.78	11.62	25.40	
Q = 60-q-f-E/Cm																
Q : Excavation capacity per hour		=	164.04 m3/hr	E : Efficiency					=	0.90						
q : Standard capacity per cycle		=	2.91 m3/cycle	Cm: Cycle Time = 0.027-L + 0.79					=	0.93 min						
f : Volume coefficient		=	1.00	L : Average pushing distance					=	5.00 m						

W0102 Excavation, Backhoe 0.35m3

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			
R0102-035	Backhoe, hydraulic, crawler, 0.35m3	hr	4.08	6.5%	8.4%	85.1%	51.8%	48.2%	1,210.00	320.89	414.69	4,201.22	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									320.89	414.69	4,201.22	2,557.58	2,379.22	4,936.80		
	Components (%)									6.5%	8.4%	85.1%	51.8%	48.2%	100.0%		
	Unit Rate	m3								0.21	4.15	42.04	25.59	23.81	49.40		
Q = 3600-q-f-E/Cm																	
Q : Excavation capacity per hour = 24.48 m3/hr E : Efficiency = 0.60																	
q : Standard capacity per cycle = 0.34 m3/cycle Cm: Cycle Time = 30.00 sec																	
f : Volume coefficient = 1.00																	

W0105 Excavation, Backhoe 0.61m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.35	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	184.01	343.48	3,561.62	2,162.21	1,926.79	4,089.05	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									184.01	343.48	3,561.62	2,162.21	1,926.79	4,089.05	
	Components (%)									4.5%	8.4%	87.1%	52.9%	47.1%	100.0%	
	Unit Rate	m3								1.84	3.44	35.62	21.63	19.27	40.90	
Q = 3600-q-f-E/Cm																
Q : Excavation capacity per hour		=	42.48 m3/hr	E : Efficiency		= 0.60										
q : Standard capacity per cycle		=	0.59 m3/cycle	Cm: Cycle Time		= 30.00 sec										
f : Volume coefficient		=	1.00													

W0106 Excavation, Backhoe 0.61m3 + Manpower

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	0.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.27	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	21.14	39.46	409.20	248.42	221.36	459.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									149.14	39.46	409.20	248.42	221.36	587.80	
	Components (%)									24.9%	6.6%	68.5%	41.6%	58.4%	100.0%	
	Unit Rate	m3								14.92	3.95	40.93	24.85	22.14	58.80	

W0107 Excavation, Clamshell + Backhoe

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	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	0.00	320.00	0.0%
Q0106-006	Clamshell, crawler, 0.6m3	hr	2.90	2.9%	6.3%	88.8%	56.2%	43.8%	2,330.00	198.88	560.90	5,997.23	3,799.69	2,957.31	6,757.00	
R0102-010	Backhoe, hydraulic, crawler, 0.11m3	day	0.50	10.3%	8.8%	81.2%	49.6%	50.4%	4,170.00	214.76	177.23	1,693.02	1,033.75	1,051.25	2,085.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									733.62	738.13	7,690.25	4,833.44	4,328.56	9,162.00	
	Components (%)									8.0%	8.1%	83.9%	52.8%	47.2%	100.0%	
	Unit Rate	m3	0							7.33	7.38	76.89	48.32	43.28	91.60	

W0108 Excavation, Backhoe 0.61m3 + Crawler Drill

Item No.	Description	Unit	Quantity	Unit Rate					Amount							Remarks
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	64.21	119.85	1,242.74	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	424.76	230.60	194.16	424.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									64.21	119.85	1,667.50	985.07	866.49	1,851.56	
	Components (%)									2.5%	6.5%	90.1%	53.2%	46.8%	100.0%	
	Unit Rate	m3								6.42	11.98	166.61	98.42	86.65	185.00	

W0109 Excavation, Manpower

Description		Unit		Unit Rate						Amount						Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	4.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									1,344.00	0.00	0.00	0.00	1,344.00	1,344.00	
	Component (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	md								34.00	0.00	0.00	0.00	34.00	34.00	

W0111 Disposal of Surplus Soil (backhoe loading)

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	138.69	258.70	2,082.51	1,628.66	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.31	10.1%	17.9%	72.0%	50.7%	49.3%	628.95	1,114.88	4,483.61	3,166.83	3,070.41	6,227.24	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								767.64	1,373.58	7,166.12	4,795.49	4,521.65	9,307.04	
	Components (%)								8.2%	14.3%	77.0%	51.4%	48.6%	100.0%	
	Unit Rate	m3							7.68	13.74	71.68	47.87	45.23	93.10	

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 56.64 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm : Cycle Time = 30 sec

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

W0115 Disposal of Surplus Soil (manpower loading)

				Unit: 10.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	416.00	0.00	0.00	0.00	0.00	416.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.1%	17.9%	72.0%	50.7%	49.3%	62.89	111.36	447.83	316.68	306.74	622.12	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								478.89	111.36	447.83	316.68	306.74	1,038.12	
	Components (%)								46.1%	10.1%	43.1%	30.4%	29.5%	100.0%	
	Unit Rate	m3							47.97	11.16	44.87	31.69	30.67	103.81	

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

W0121 Borrow Soil, transported

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
M03001	Quarry Royalty (Borrow Soil)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	0.00	1,500.00	0.00	0.00	0.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.88	4.5%	8.4%	87.1%	52.9%	47.1%	147.20	274.78	2,849.22	1,729.77	1,541.43	3,271.20	
R0601-006	Dump Truck, 9.0-12.0 cu-yds (6.9-9.2m3)	hr	7.99	8.1%	17.8%	74.1%	51.8%	48.2%	489.92	1,076.62	4,481.89	3,135.34	2,913.08	6,048.43	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								637.13	2,851.40	7,331.10	4,865.11	5,954.52	10,819.63	
	Components (%)								5.9%	28.4%	57.8%	35.0%	65.0%	100.0%	
	Unit Rate	m3							6.35	28.46	73.18	48.65	59.44	108.00	

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

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 12.52 m3/hr
 q : Loading Capacity of a Truck = 9.00 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.70 km

W0122 Crushed Aggregate, transported

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
M03003	Quarry Royalty (Aggregate)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	0.00	1,500.00	0.00	0.00	0.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.62	4.5%	8.4%	87.1%	52.9%	47.1%	174.00	320.81	4,123.82	2,594.65	2,312.15	4,908.80	
L020	Unskilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	1,120.00	0.00	0.00	0.00	0.00	1,120.00	
R0716-010	Aggregate Crusher, 100t/hr	hr	2.24	0.0%	5.5%	94.5%	54.1%	45.9%	2,709.00	0.00	5,715.36	3,272.89	2,776.11	6,048.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	220.81	412.17	4,273.82	2,594.65	2,312.15	4,908.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.36	10.1%	17.9%	72.0%	50.7%	49.3%	693.01	1,228.20	4,940.24	3,478.33	3,383.11	6,861.44	
	Miscellaneous	LS	1.00						126.72	126.72	253.43	202.74	304.12	606.86	2.0%
	Total								2,381.33	4,011.90	19,456.67	12,143.27	13,706.64	25,819.90	
	Components (%)								9.2%	15.5%	75.3%	47.0%	53.0%	100.0%	
	Unit Rate	m3							23.77	40.12	194.19	121.20	136.80	258.00	

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 35.40 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.50
 Cm : Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 8.80 m3/hr
 q : Loading Capacity of a Truck = 6.90 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 a : Loading time = 0.27 hr
 L : Average Distance from Quarry = 6.00 km

W0123 Excavated Soil, transported

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	138.69	258.70	2,082.51	1,628.66	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	5.44	10.1%	17.9%	72.0%	50.7%	49.3%	331.66	589.15	2,365.75	1,665.89	1,620.08	3,285.75	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								470.35	847.85	5,048.26	3,294.54	3,071.32	6,365.55	
	Components (%)								7.4%	13.3%	79.3%	51.8%	48.2%	100.0%	
	Unit Rate	m3							4.71	8.47	50.52	32.97	30.73	63.70	

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 56.64 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm : Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 18.37 m3/hr
 q : Loading Capacity of a Truck = 6.80 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 = 0.80 km

W0126 Selected Sand, transported

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
M03002	Quarry Royalty (Sand, Pebbles)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	0.00	1,500.00	0.00	0.00	0.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	169.91	317.17	3,288.72	1,996.59	1,779.21	3,775.80	
L020	Unskilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	1,120.00	0.00	0.00	0.00	0.00	1,120.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	169.91	317.17	3,288.72	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	10.1%	17.9%	72.0%	50.7%	49.3%	619.80	1,098.46	4,418.38	3,110.90	3,025.74	6,136.64	
	Miscellaneous	LS	1.00						85.23	85.23	163.08	130.47	195.70	398.10	2.0%
	Total								2,144.86	3,330.61	11,158.91	7,234.55	6,595.85	16,534.40	
	Components (%)								12.9%	20.0%	67.1%	43.5%	56.5%	100.0%	
	Unit Rate	m3							21.40	33.24	111.36	72.20	65.90	166.00	

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 46.02 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.65
 Cm : Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 9.85 m3/hr
 q : Loading Capacity of a Truck = 6.80 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

#0120 Gravel/Stone, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0102-061	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	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,594.65	2,312.16	4,908.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	1,120.00	1,120.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,594.65	2,312.16	4,908.80
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	LS	11.36	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	693.01	1,228.20	4,940.24	3,478.33	3,383.11	6,861.44
	Miscellaneous	LS	1.00	20.0%	39.0%	50.0%	49.0%	50.0%		77.18	115.17	122.95	154.36	231.51	385.90
	Total									2,331.89	3,668.51	13,690.83	8,822.99	10,858.94	19,680.94
	Components (%)									11.8%	16.6%	69.5%	44.5%	55.2%	100.0%
	Unit Rate	m3								23.34	36.72	136.94	88.31	108.69	197.00

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

Q = 3600 q · f · E / Cn (Backhoe)
 Q : Excavation Volume per hour = 35.4 m3/hr
 q : Loading Capacity of a Truck = 5.90 m3
 f : Volume Coefficient = 1.90
 E : Efficiency = 0.50
 Cn : Cycle Time = 30 sec

Q = q · f · E / Cn (Dump Truck)
 Q : Transportation Volume per hour = 8.80 m3/hr
 q : Loading Capacity of a Truck = 5.90 m3
 f : Volume Coefficient = 1.90
 E : Efficiency = 0.50
 Cn : Cycle Time = A + 2 · L / V
 V : Vehicle speed = 30.00 km/hr
 L : Average Distance from Quarry = 5.00 km

#0131 Backfill A

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	158.60	292.32	3,031.08	1,840.18	1,639.82	3,480.00
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	2.00	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	162.00	421.20	4,816.80	2,893.27	2,506.73	5,400.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									318.60	713.52	7,847.88	4,733.44	4,146.55	8,880.00
	Components (%)									3.6%	8.0%	86.4%	53.3%	45.7%	100.0%
	Unit Rate	m3								3.19	7.14	79.48	47.33	41.47	88.80

#0132 Backfill B

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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%	320.00	550.40	0.00	0.00	0.00	550.40	550.40
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.80	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	219.24	409.25	4,243.51	2,576.25	2,295.75	4,872.00
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	1.20	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	97.20	252.72	2,890.08	1,735.96	1,504.04	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	2,002.65	1,357.75	1,065.85	4,433.60
R0309-006	Vibration Rammer, 6in	day	0.28	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.85	22.39	26.40	17.84	44.24
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									866.64	1,114.57	9,158.83	5,706.36	5,433.89	11,145.24
	Components (%)									7.8%	10.0%	82.2%	51.2%	48.8%	100.0%
	Unit Rate	m3								8.64	11.11	91.26	56.86	54.14	111.00

#0133 Backfill C

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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%	320.00	1,376.00	0.00	0.00	0.00	1,376.00	1,376.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	4.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	313.20	584.64	6,082.16	3,680.35	3,279.65	8,960.00
R0307-000	Plate Compactor	day	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,078.87	5,007.13	3,419.36	2,664.64	8,084.00
R0309-006	Vibration Rammer, 6in	day	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	54.64	55.96	65.00	44.60	110.60
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,689.20	1,116.14	11,125.26	7,165.72	7,364.88	14,550.60
	Components (%)									14.6%	11.8%	76.6%	49.2%	50.7%	100.0%
	Unit Rate	m3								16.86	12.13	111.02	71.51	73.49	145.00

#0134 Backfill D

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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%	320.00	2,240.00	0.00	0.00	0.00	2,240.00	2,240.00
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	8.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	469.80	876.96	9,093.24	5,520.33	4,819.47	10,440.00
R0307-000	Plate Compactor	day	8.00	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,164.48	5,135.82	3,507.04	2,732.96	8,240.00
R0309-006	Vibration Rammer, 6in	day	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	646.36	559.64	660.02	445.98	1,106.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									2,709.80	2,527.80	14,788.40	8,887.59	10,338.41	20,026.00
	Components (%)									13.5%	12.6%	73.8%	48.4%	51.6%	100.0%
	Unit Rate	m3								27.06	25.25	147.69	96.75	103.25	200.00

#0135 Backfill, Manpower + Compactor

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	608.00	0.00	0.00	0.00	608.00	608.00
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	54.86	124.80
R0309-006	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	42.88
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									608.00	23.09	124.30	95.60	875.86	775.46
	Components (%)									78.4%	2.6%	16.2%	12.3%	87.2%	100.0%
	Unit Rate	m3								60.76	4.31	12.42	9.55	87.95	77.50

#0141 Filling & Laying, bulldozer 15t

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	1.02	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	82.82	214.81	2,456.57	1,475.57	1,278.43	2,754.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									82.82	214.81	2,456.57	1,475.57	1,278.43	2,754.00
	Components (%)									3.0%	7.8%	89.2%	53.6%	46.4%	100.0%
	Unit Rate	m3								0.83	2.15	24.53	14.73	12.77	27.50

Q = 10 · E · (13 · D + 9)

Q : Filling Volume per hour = 98 m3/hr

E : Efficiency = 0.80

D : Layer thickness = 0.250 m

#0142 Filling & Laying, bulldozer 21t

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0101-021	Tractor, crawler w/doser (Bulldozer, 21t)	hr	0.71	1.6%	8.1%	90.3%	54.3%	45.7%	4,180.00	47.26	239.24	2,667.10	1,602.96	1,350.64	2,953.60
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									47.26	239.24	2,667.10	1,602.96	1,350.64	2,953.60
	Components (%)									1.1%	8.1%	90.3%	54.3%	45.7%	100.0%
	Unit Rate	m3								0.47	2.39	26.64	16.01	13.49	29.50

Q = 10 · E · (18 · D + 13)

Q : Filling Volume per hour = 140 m3/hr

E : Efficiency = 0.80

D : Layer thickness = 0.250 m

#0145 Compaction, bulldozer 15t

W0146 Compaction, bulldozer 2lt										Unit: 100.00 m3						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Locs.		Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/doser (Bulldozer, 2lt)	hr	0.83	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	41.93	212.28	2,366.58	1,422.35	1,198.45	2,820.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									41.93	212.28	2,366.58	1,422.35	1,198.45	2,820.80	
	Components (%)									1.6%	8.1%	90.3%	54.3%	45.7%	100.0%	
	Unit Rate	m3								0.42	2.12	23.66	14.22	11.98	28.20	
Q = V-W-D-E/N																
Q : Compaction Volume per hour		=	157.5 m3/hr		D : Layer thickness		0.250 m									
V : Compaction speed		=	3500 m/hr		E : Efficiency		= 0.80									
W : Effective compaction width		=	0.900 m		N : Number of Compaction		= 4 times									

W0147 Compaction, tire roller 8~20t										Unit: 100.00 m3						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.63	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	45.94	83.53	914.63	550.84	493.56	1,044.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									45.94	83.53	914.63	550.84	493.56	1,044.10	
	Components (%)									4.4%	8.0%	87.6%	52.7%	47.3%	100.0%	
	Unit Rate	m3								0.46	0.83	9.11	5.49	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 = 8 times																

W0148 Compaction, tamper										Unit: 10.00 m3						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)				Local		Component (PP)				Total (PP)		
				Lab.	Mat.	Equip.	For.			Labor	Material	Equipment	Foreign		Local	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	95.00	0.00	0.00	0.00	95.00	95.00	
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	168.00	0.00	21.07	21.59	28.46	17.20	42.66	
R0307-000	Plate Compactor	day	0.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	110.45	513.55	350.70	273.30	624.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									95.00	131.52	535.14	379.16	386.50	762.66	
	Components (%)									12.6%	17.2%	70.2%	49.3%	50.7%	100.0%	
	Unit Rate	m3								9.50	13.15	53.51	37.93	38.67	76.30	

W0149 Filling, Laying & Compaction, bulldozer 2lt										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/doser (Bulldozer, 2lt)	hr	1.35	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	89.86	454.90	5,071.25	3,047.89	2,568.11	5,616.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									89.86	454.90	5,071.25	3,047.89	2,568.11	5,616.00	
	Components (%)									1.6%	8.1%	90.3%	54.3%	45.7%	100.0%	
	Unit Rate	m3								0.90	4.55	50.75	30.50	25.70	86.20	
Q = Q1xQ2/(Q1+Q2) Q1 = V-W-D-E/N Q1 : Compaction Volume per hour = 157.5 m3/hr V : Compaction speed = 3,500 m/hr W : Effective compaction width = 0.900 m D : Layer thickness = 0.250 m E : Efficiency = 0.80 N : Number of Compaction = 4 times Q2 = 10-E*(18-D+13) Q2 : Filling Volume per hour = 140.00 m3/hr E : Efficiency = 0.80 D : Layer thickness = 0.250 m																

W0150 Filling, Laying & Compaction, bulldozer 15t										Unit: 100.00 m3						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment (PP)	Foreign	Local		Total (PP)
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	1.91	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	154.71	402.25	4,600.04	2,763.07	2,393.93	6,157.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									154.71	402.25	4,600.04	2,763.07	2,393.93	6,157.00	
	Components (%)									3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3								1.55	4.02	46.03	27.65	23.95	61.60	
Q = Q1xQ2/(Q1+Q2)																
Q1 = V-W-D-E/N			82.27 m3/hr			Q2 = 10-E*(13-D+9)										
Q1 : Compaction Volume per hour			112 m3/hr			Q2 : Filling Volume per hour = 98.00 m3/hr										
V : Compaction speed			3,800 m/hr			E : Efficiency = 0.80										
W : Effective compaction width			0.800 m			D : Layer thickness = 0.250 m										
D : Layer thickness			0.250 m													
E : Efficiency			0.800													
N : Number of Compaction			5 times													

W0151 Slope Formation by Bulldozer										Unit: 100.00 m2						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Labor	Material	Equipment	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
R0101-015	Tractor, crawler w/doser (Bulldozer, 15t)	hr	1.40	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	113.40	294.84	3,371.78	2,025.29	1,754.71	3,780.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									299.00	294.84	3,371.78	2,025.29	1,940.31	3,965.60	
	Components (%)									7.5%	7.8%	85.0%	51.1%	48.9%	100.0%	
	Unit Rate	m2								2.99	2.95	32.76	20.25	19.42	39.70	

W0152 Slope Formation by Backhoe										Unit: 100.00 m2									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab	Mat	Equip	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)				
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	67.50	0.00	0.00	0.00	57.60	57.60				
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	224.00	0.00	0.00	0.00	224.00	224.00				
R0102-001	Backhoe, hydraulic, crawler, 0.61m3	hr	2.60	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	203.88	380.02	3,940.40	2,392.23	2,131.77	4,524.00				
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
	Total									485.18	380.02	3,940.40	2,392.23	2,143.37	4,805.60				
	Components (%)									10.1%	7.9%	82.0%	49.8%	50.2%	100.0%				
	Unit Rate	m2								4.85	3.80	39.44	23.94	24.15	48.10				

W01B1 Gravel Foundation Fill										Unit: 10.00 m3							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	15.8%	76.3%	47.0%	55.0%	268.00	285.21	480.50	2,330.20	1,454.38	1,841.62	3,096.00	3,096.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	28.0%	75.0%	55.0%	45.0%		0.00	28.46	88.39	62.62	81.23	113.85	113.85	3.0%
	Total									984.21	508.96	2,418.68	1,517.00	2,391.85	3,909.85		
	Components (%)									25.2%	13.0%	61.8%	38.6%	61.2%	100.0%		
	Unit Rate	m3								98.42	50.91	241.84	151.74	239.26	391.00		
Miscellaneous covers the cost for depreciation of compaction equipment, fuel, etc.																	

W0102 Selected Sand Fill												Unit: 10.00 m3				
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)					Total (PP)		Component (PP)				Total (PP)	
				Lab	Mat	Equip	Fov	Local			Labor	Material	Equipment	Foreign		Local
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
W0128	Selected Sand, transported	m3	12.00	12.9%	20.0%	67.1%	43.5%	58.5%	166.00	258.85	398.85	1,338.30	868.36	1,125.65	1,992.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	85.0%	45.0%	0.00	0.00	20.18	0.00	80.73	44.75	3.0%	
	Total									955.85	419.03	1,398.85	910.75	1,860.98	2,771.73	
	Component (%)									34.5%	15.1%	60.4%	32.8%	67.1%	100.0%	
	Unit Rate	m3								95.53	41.88	139.60	91.02	185.98	277.00	
Miscellaneous covers the cost for depreciation of compaction equipment, fuel, etc.																

W0201 Lean Concrete (17MPa, max agg. 38mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	
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	6,882.50	4,455.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.89	8.2%	15.5%	75.3%	47.0%	53.0%	258.00	108.09	183.79	891.34	556.50	627.92	Loss 10.0%
W0128	Selected Sand, transported	m3	3.19	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	65.26	106.03	355.22	230.30	299.24	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.69	104.27	Loss 2.0%
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	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.63	317.58	296.22	Loss 2.0%
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		28.88	129.96	129.96	144.40	144.40	2.0%
Total										390.19	11,780.99	2,657.49	8,329.06	6,399.61	14,728.67
Components (%)										2.6%	80.0%	17.4%	55.5%	43.5%	100.0%
Unit Rate			m3							39.02	1,178.10	265.75	832.91	639.96	1,472.87

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 = 0.28 hr

Water = 175.00 kg/m3 L : Transportation Distance = 1.50 km

Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0202 Concrete (Class B, 17MPa, max agg. 50mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	
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	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.48	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	130.25	219.43	1,064.17	664.17	749.67	Loss 10.0%
W0128	Selected Sand, transported	m3	2.70	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	57.79	89.74	300.87	194.93	253.27	Loss 10.0%
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	Loss 2.0%
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	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.63	317.58	296.22	Loss 2.0%
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		26.65	119.94	119.94	133.26	133.26	2.0%
Total										398.63	10,528.33	2,665.73	7,639.84	6,592.85	13,592.85
Components (%)										2.9%	77.5%	19.6%	56.2%	43.8%	100.0%
Unit Rate			m3							39.86	1,052.83	266.57	763.98	659.29	1,359.29

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 = 0.28 hr

Water = 155.00 kg/m3 L : Transportation Distance = 1.50 km

Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0203 Concrete (Class A, 21MPa, max agg. 38mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	
M03011	Portland Cement, ordinary	t	3.64	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	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.52	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	107.43	180.99	877.74	547.82	618.34	Loss 10.0%
W0128	Selected Sand, transported	m3	3.14	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	67.21	104.37	349.66	226.70	294.64	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.69	104.27	Loss 2.0%
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	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.63	317.58	296.22	Loss 2.0%
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		31.12	140.05	140.05	155.81	155.81	2.0%
Total										389.70	12,834.12	2,648.41	9,015.69	6,855.55	15,872.23
Components (%)										2.6%	81.5%	16.1%	56.8%	43.2%	100.0%
Unit Rate			m3							38.97	1,283.41	264.84	901.57	685.56	1,587.22

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 = 0.28 hr

Water = 175.00 kg/m3 L : Transportation Distance = 1.50 km

Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0203a Concrete (Class A1, 21MPa, max agg. 20mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	
M03011	Portland Cement, ordinary	t	3.86	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,027.80	0.00	7,616.50	5,211.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.08	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	96.97	163.37	792.30	494.49	558.15	Loss 10.0%
W0128	Selected Sand, transported	m3	3.34	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	71.49	111.01	371.94	241.13	313.31	Loss 10.0%
M01010	Water Supply	m3	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	122.47	0.00	12.25	110.22	Loss 2.0%
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	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.63	317.58	296.22	Loss 2.0%
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		32.46	146.07	146.07	162.30	162.30	2.0%
Total										394.86	13,678.28	2,491.25	9,430.64	7,123.77	16,554.41
Components (%)										2.3%	82.6%	15.0%	57.0%	43.0%	100.0%
Unit Rate			m3							39.49	1,367.83	249.12	943.06	712.38	1,655.44

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) = 994.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3

Sand = 793.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.28 hr

Water = 185.00 kg/m3 L : Transportation Distance = 1.50 km

Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0204 Concrete (Class C, 21MPa, max agg. 20mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40		
M03011	Portland Cement, ordinary	t	3.96	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,365.00	0.00	8,019.00	5,348.00	13,365.00	Loss 2.0%	
W0122	Crushed Aggregate, transported	m3	3.71	8.2%	15.5%	75.3%	47.0%	53.0%	258.00	68.18	148.55	720.45	449.65	507.63	957.18	Loss 10.0%	
W0128	Selected Sand, transported	m3	3.57	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	76.41	118.66	397.65	257.74	334.66	692.62	Loss 10.0%	
M01010	Water Supply	m3	1.90	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	125.78	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	Loss 2.0%	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.63	317.58	296.22	613.80		
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	754.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		33.03	148.62	148.62	165.13	165.13	330.27	2.0%	
	Total									381.56	14,014.48	2,427.57	9,608.07	7,235.54	16,843.61		
	Components (%)									2.3%	83.2%	14.5%	57.0%	43.0%	100.0%		
	Unit Rate	m3								38.06	1,397.82	244.12	958.32	721.68	1,690.00		
	Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
	Cement	=										5.53 hr					
	Aggregate (max 20mm)	=										4.30 m3					
	Sand	=										0.29 hr					
	Water	=										1.50 km					
	Admixture	=										25.00 km/hr					
												Plant Daily Operation					
												Concrete Mixer Truck Capacity					
												Transportation Time = 2*L/V * .16					
												L : Transportation Distance					
												V : Transportation Velocity					

W0205 Concrete (Class AA1, 28MPa, max agg. 25mm)

Unit: 10.00 m3

0205 Concrete (Class A1), 28MPa, max agg. 25mm																
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,376.00	0.00	12,690.00	0.00	7,614.00	8,076.00	12,690.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.70	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	111.71	188.20	912.70	569.83	642.97	1,212.60	Loss 10.0%
W0128	Selected Sand, transported	m3	2.75	12.0%	20.0%	67.1%	43.5%	56.5%	166.00	59.08	91.74	307.35	199.26	258.90	458.16	Loss 10.0%
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	86.20	0.00	102.61	0.00	10.26	92.35	102.61	
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	61.7%	48.3%	1,980.00	23.94	46.01	543.83	317.68	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	61.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	754.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		34.09	153.39	153.39	170.43	170.43	340.86	2.0%
	Total									388.81	14,440.63	2,854.39	10,614.34	7,341.43	17,383.83	
	Components (%)									2.2%	83.4%	14.7%	57.8%	42.2%	100.0%	
	Unit Rate	m3								38.92	1,444.01	285.68	1,065.17	734.83	1,740.00	
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement	=		399.00 kg/m3									5.53 hr				
Aggregate (max 25mm)	=		1,132.00 kg/m3									4.30 m3				
Sand	=		655.00 kg/m3									0.28 hr				
Water	=		155.00 kg/m3									1.50 km				
Admixture	=		0.92 kg/m3									25.00 km/hr				
Plant Daily Operation																
Concrete Mixer Truck Capacity																
Transportation Time = 2-L/V + .16																
L : Transportation Distance																
V : Transportation Velocity																

W0206 Concrete (Class AA2, 28MPa, max agg. 20mm)

Unit: 10.00 m3

R0206 Concrete (Class AA2, 28MPa, max agg. 20mm)														Unit Rate		Amount		Remarks	
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks				
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56				
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40				
M03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,376.00	0.00	13,533.75	0.00	8,120.25	5,413.50	13,533.75	Loss 2.0%			
W0122	Crushed Aggregate, transported	m3	4.16	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	98.83	166.17	808.89	502.97	567.73	1,070.70	Loss 10.0%			
W0128	Selected Sand, transported	m3	3.00	12.0%	20.0%	67.1%	43.5%	56.5%	166.00	64.21	99.71	334.07	216.59	281.41	498.00	Loss 10.0%			
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	86.20	0.00	109.23	0.00	10.92	98.31	109.23				
M03401	Admixture	kg	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,180.00	0.00	826.00	354.00	1,180.00	Loss 2.0%			
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	61.7%	48.3%	1,980.00	23.94	46.04	543.83	317.68	296.22	613.80				
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	61.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	754.00				
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		35.73	160.78	160.78	178.84	178.84	357.59	2.0%			
Total										392.52	15,367.61	2,481.70	10,559.35	7,662.38	18,221.73				
Components (%)										2.1%	84.3%	13.6%	57.9%	42.1%	100.0%				
Unit Rate										39.25	1,536.92	247.87	1,054.88	765.32	1,820.90				
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																			

W0208 Concrete (Class PP, 41MPa, max agg. 20mm)

Unit: 10.00 m3

02028 Concrete (Class PP, 41MPa, max agg. 20mm)			Unit Rate										Amount					Unit: (0.00 m3)		Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local						
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56					
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40					
M03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,378.00	0.00	16,168.25	0.00	9,699.75	6,468.50	16,168.25	Loss 2.0%				
W0122	Crushed Aggregate, transported	m3	3.98	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	94.59	159.37	772.88	482.37	544.47	1,026.84	Loss 10.0%				
W0128	Selected Sand, transported	m3	3.01	12.0%	20.0%	67.1%	43.5%	56.5%	166.00	64.43	100.04	358.18	217.31	282.56	499.66	Loss 10.0%				
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	86.20	0.00	102.61	0.00	85.22	92.35	102.61					
M03401	Admixture	kg	12.00	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%	7.5%	88.6%	61.7%	48.3%	1,980.00	23.94	48.04	543.83	317.68	296.22	613.80					
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	61.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.01	754.00					
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		41.38	186.20	186.20	208.89	208.89	413.78	2.0%				
	Total									384.31	18,243.05	2,475.23	12,315.05	8,787.57	21,102.62					
	Components (%)									1.9%	86.4%	11.7%	58.4%	41.6%	100.0%					
	Unit Rate	m3								38.43	1,824.08	247.49	1,231.35	878.65	2,110.00					
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																				
Cement	=														5.53 hr					
Aggregate (max 20mm)	=														4.30 m3					
Sand	=														0.28 hr					
Water	=														1.60 km					
Admixture	=														25.00 km/hr					

W0211 Concrete (for RCC Pavement, 24.1MPa, max agg. 50mm)

Unit: 10.00 m3

R0211 Concrete (for PCC Pavement, 24 MPa, max agg 50mm)				Unit: 10.00 m3												
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.06	0.0%	100.0%	0.0%	60.0%	40.0%	3,376.00	0.00	10,327.60	0.00	6,196.60	4,131.00	10,327.60	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.62	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	133.57	225.03	1,091.35	681.13	768.83	1,449.95	Loss 10.0%
W0128	Selected Sand, transported	m3	2.41	12.0%	20.0%	67.1%	43.5%	56.5%	166.00	51.58	80.10	268.37	173.90	226.07	400.06	Loss 10.0%
M01010	Water Supply	m3	1.35	0.0%	100.0%	0.0%	10.0%	90.0%	86.20	0.00	89.37	0.00	8.94	80.43	89.37	
M03401	Admixture	kg	7.65	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	902.70	0.00	831.89	270.81	902.70	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	61.7%	48.3%	1,980.00	23.94	46.04	543.83	317.68	296.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	61.2%	48.8%	1,160.00	55.04	61.83	637.13	386.39	367.61	754.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		29.28	131.78	131.78	146.42	146.42	292.85	2.0%
	Total									399.38	11,864.35	2,472.47	8,542.85	6,392.35	14,935.20	
	Components (%)									2.1%	79.4%	17.9%	57.8%	42.2%	100.0%	
	Unit Rate	m3								39.74	1,183.64	246.62	852.27	637.73	1,490.00	
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																
Cement	=												5.53 hr			
Aggregate (max 20mm)	=		1,354.00 kg/m3										4.30 m3			
Sand	=		571.00 kg/m3										0.28 hr			
Water	=		135.00 kg/m3										1.50 km			
Admixture	=		0.75 kg/m3										25.00 km/hr			

W0215 Concrete (for RCPC, 26MPa, max agg. 20mm)

Unit: 10.00 m3

R0216 Concrete (for RCPC, 25MPa, max agg. 20mm)			Unit: 10.00 m3													
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.74	0.0%	100.0%	0.0%	60.0%	40.0%	3,376.00	0.00	12,622.60	0.00	7,573.50	5,049.00	12,622.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.20	9.2%	16.5%	75.3%	47.0%	53.0%	258.00	99.82	168.17	816.60	509.03	574.67	1,083.60	Loss 10.0%
W0128	Selected Sand, transported	m3	3.04	12.0%	20.0%	67.1%	43.5%	56.5%	166.00	65.07	101.04	338.83	219.45	285.16	504.64	Loss 10.0%
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23	
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	61.7%	48.3%	1,980.00	23.94	64.84	543.83	317.58	256.22	613.60	
R0605-080	Trucks Mixer 3.0-6.0 cu-yds (3.8-6.8m3)	hr	0.65	3.3%	8.2%	84.6%	61.2%	48.6%	1,160.00	55.04	61.83	637.13	388.39	367.61	754.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		33.60	152.10	152.10	169.00	169.00	337.99	2.0%
	Total									382.63	14,367.75	2,487.18	9,969.68	7,276.88	17,237.66	
	Components (%)									2.2%	83.4%	14.4%	51.8%	42.2%	100.0%	
	Unit Rate	m3								38.18	1,433.64	248.15	993.90	726.10	1,726.90	
	Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.															
	Cement															5.53 hr
	Aggregate (max 20mm)															4.30 m3
	Sand															0.28 hr
	Water															1.60 km
	Admixture															25.00 km/hr

#0216 Concrete (for RCPC, 32MPa, max agg. 20mm)

03216 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%	676.00	34.56	0.00	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	0.00	70.40	70.40	
R03011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	0.0%	40.0%	3,375.00	0.00	14,961.25	0.00	8,970.75	5,989.50	14,961.25	14,961.25	Loss 2.0%
W0128	Crushed Aggregate, transported	m3	4.06	0.0%	0.0%	15.5%	75.3%	47.0%	59.00	258.00	96.50	182.67	788.42	492.06	556.42	1,047.48	Loss 10.0%
W0128	Selected Sand, transported	m3	2.95	12.9%	20.0%	67.1%	43.5%	56.5%	168.00	63.14	98.05	328.51	212.98	276.72	469.70	469.70	Loss 10.0%
W01010	Water Supply	m3	1.66	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.82	98.31	109.13	109.13	
W03401	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	1,312.16	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	46.3%	1,990.00	23.94	46.04	543.83	317.68	296.22	613.80	613.80	
R0505-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.65	7.3%	8.2%	84.5%	51.2%	46.8%	1,180.00	55.04	61.83	637.13	385.39	367.61	784.00	784.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		382.34	18,915.87	2,472.32	11,503.02	8,267.21	19,770.23	19,770.23	2.0%
	Total																
	Components (%)									1.9%	85.8%	12.5%	55.2%	41.8%	100.0%		
	Unit Rate	m3								38.23	1,891.59	247.23	1,152.03	827.97	1,980.00		
Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.																	
	Cement	=		434.00 kg/m3					Plant Daily Operation							5.53 hr	
	Aggregate (max 20mm)	=		979.00 kg/m3					Concrete Mixer Truck Capacity							4.30 m3	
	Sand	=		699.00 kg/m3					Transportation Time = 2-L/V + .16							0.28 hr	
	Water	=		165.00 kg/m3					L : Transportation Distance							1.60 km	
	Admixture	=		1.09 kg/m3					V : Transportation Velocity							25.00 km/hr	

#0221 Mortar (1:3)

#0221		Worrier (1:3)		Unit: 10.00 m3													
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60		
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00		
M03011	Portland Cement, ordinary	t	4.93	0.0%	100.0%	0.0%	0.0%	40.0%	3,375.00	0.00	16,638.75	0.00	9,983.25	6,656.50	16,638.75	Loss 2.0%	
W0128	Selected Sand, transported	m3	6.11	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	130.78	203.08	580.40	441.12	573.14	1,014.26	Loss 10.0%	
M01010	Water Supply	m3	2.17	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	143.65	0.00	14.37	129.29	143.65		
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.89	70.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		19.02	81.09	81.09	90.10	90.10	180.20	1.0%	
	Total									302.40	17,070.14	827.92	10,567.24	7,633.22	18,200.46		
	Components (%)									1.7%	93.6%	4.5%	68.1%	41.9%	100.0%		
	Unit Rate	m3								30.24	1,706.97	82.79	1,056.70	763.30	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						

#0226 Mortar (1:2)

W0222 Mortar (1:2)		Unit: 10.00 m3														
Item No.	Description	Unit	Quantity	Unit Rate					Total	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
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%
W0128	Selected Sand, transported	m3	7.88	12.9%	20.0%	67.1%	43.5%	56.5%	168.00	168.87	261.91	877.50	368.90	739.18	1,308.06	Loss 0.0%
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	186.36	0.00	18.64	168.82	185.35	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.69	70.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		23.15	104.17	104.17	115.74	115.74	231.48	1.0%
	Total									345.41	21,988.26	1,048.10	13,600.34	9,779.43	23,379.77	
	Components (%)									1.6%	94.0%	4.8%	68.2%	41.8%	100.0%	
	Unit Rate	m3								34.57	2,200.53	104.90	1,361.21	978.79	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										

#0226 Grout (non-shrink)

#0226		Grout (non-shrink)		Unit: 10.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)				Total (PP)	Component (PP)				Total (PP)		
Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment		Foreign	Local					
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	96.00	96.00	
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	21,431.25	Loss 2.0%
W0128	Selected Sand, transported	m3	5.25	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	112.37	174.50	564.63	379.03	492.47	Loss 10.0%
M03402	Non-shrink Admixture	kg	19.06	0.0%	100.0%	0.0%	70.0%	30.0%	392.00	0.00	7,471.62	0.00	5,230.06	7,471.62	Loss 2.0%
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		30.18	135.82	135.82	150.92	301.83	1.0%
	Total									296.16	29,402.02	788.89	18,875.70	11,809.36	30,485.06
	Components (%)									1.0%	96.4%	2.6%	61.3%	36.7%	100.0%
	Unit Rate	m3								29.63	2,941.64	78.73	1,869.49	1,181.51	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	=	1,246.00	kg/m3											
	Water	=	280.00	kg/m3											
	Admixture	=	1.87	kg/m3											

#0231 Concrete Pouring by Pump Vehicle (plain concrete)

W0231 Concrete Paving by Pump Vehicle (plain concrete)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (Pp)	Component (Pp)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (Pp)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.77	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	1,686.30	900.96	785.32	1,686.30
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%	0.00	0.00	4.10	37.68	23.03	18.84	41.87
	Total								407.20	4.10	1,723.98	924.01	1,211.36	2,135.37	2.0%
	Components (%)								19.1%	0.2%	80.7%	43.3%	56.7%	100.0%	
	Unit Rate	m3							40.81	0.42	172.77	92.60	121.49	214.00	
Miscellaneous covers the cost for vibrator, generator, etc.															

#0232 Concrete Pouring by Pump Vehicle (reinforced concrete)

R0232 Concrete Pouring by Pump Vehicle (reinforced concrete)										Unit: 10.00 m3									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)				
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20				
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00				
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00				
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.97	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	2,124.30	1,135.00	989.30	2,124.30				
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%	0.00	0.00	5.06	45.57	27.85	22.78	60.63	2.0%			
	Total									407.20	5.06	2,169.87	1,162.84	1,419.29	2,592.13				
Components (%)									15.8%	0.2%	84.0%	45.0%	55.0%	100.0%					
Unit Rate				m3					40.69	0.51	216.81	116.19	141.81	258.00					

#0233 Concrete Pouring by Pump Vehicle for PC box girder cantilever construction

B233		Concrete Pouring by Pump Vehicle for PC box girder cantilever construction										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20		115.20	
L019	Skilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	943.00	0.00	0.00	0.00	943.00		943.00	
L020	Unskilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	448.00	0.00	0.00	0.00	448.00		448.00	
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76, Em3/hr)	hr	1.80	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	3,804.00	1,872.16	1,631.84	3,604.00		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	10.02	90.18	55.11	45.09	160.20		8.0%
	Total									1,606.20	10.02	3,594.18	1,927.27	3,183.13	5,110.40		
Components (%)																	
Unit Rate																	
Miscellaneous covers the cost for vibrator, generator, etc.																	

W0234 Concrete Pouring by Truck Crane										Unit: 10.00 m3						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment (PP)	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	578.00	115.20	0.00	0.00	0.00	115.20	115.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	328.00	0.00	0.00	0.00	328.00	328.00	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	288.00	0.00	0.00	0.00	288.00	288.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.90	7.0%	7.7%	85.3%	61.5%	48.5%	1,070.00	142.31	166.54	1,734.15	1,046.03	986.97	2,031.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	5.53	49.76	30.41	24.88	55.28	
	Total									873.61	162.07	1,783.90	1,076.43	1,733.05	2,819.48	
	Components (%)									31.0%	5.7%	63.3%	38.2%	61.8%	100.0%	
	Unit Rate	m3								87.37	16.21	178.42	107.66	174.31	282.00	

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	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	0.00	460.80	460.80	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	656.00	0.00	0.00	0.00	0.00	656.00	656.00	
L020	Unskilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	0.00	1,120.00	1,120.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	4.47	40.26	24.60	20.13	44.74		2.0%
	Total									2,236.80	4.47	40.26	24.60	2,256.93	2,281.54		
	Components (%)									98.94	0.24	1.83	1.12	98.94	100.00		
	Unit Rate	m3								223.68	0.45	4.02	2.46	225.53	228.00		
Miscellaneous covers the cost for chute, vibrator, supports, shovels, etc.																	

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

W0236 Concrete Curing (plain concrete)										Unit: 10.00 m3					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00
	Miscellaneous	LS	1.00	0.0%	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	7.87	18.37	14.43	11.81	25.24
	Total									64.00	7.87	18.37	14.43	75.81	99.24
	Components (%)									70.94	8.7%	20.4%	16.0%	64.0%	100.0%
	Unit Rate	m3								6.40	0.79	1.84	1.44	7.58	9.92
Miscellaneous cover the cost of equipment and materials necessary for watering such as pumps, generator, fuel, curing sheets, etc.															

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	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	32.00	0.00	0.00	0.00	32.00	32.00	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	3.26	7.62	5.98	4.90	10.88	34.0%
	Total									32.00	3.26	7.62	5.98	36.90	42.88	
	Components (%)									74.6%	7.6%	17.8%	14.0%	86.0%	100.0%	
	Unit Rate	m3								3.20	0.33	0.76	0.60	3.69	4.29	
Miscellaneous covers the cost of equipment and materials necessary for watering such as pumps, generator, fuel, curing sheets, etc.																

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	
				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%	576.00	1,843.20	0.00	0.00	0.00	1,843.20	1,843.20	
L005	Carpenter	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	6,674.80	0.00	0.00	0.00	6,674.80	6,674.80	
L020	Unskilled Labor	md	14.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,768.00	0.00	0.00	0.00	4,768.00	4,768.00	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	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	265.76	175.84	219.80	219.80	439.60	
	Total									13,286.00	8,957.76	175.84	654.50	21,785.10	22,419.60	
	Components (%)									59.3%	40.0%	0.8%	2.9%	97.1%	100.0%	
	Unit Rate	m2								132.74	89.50	1.78	6.51	217.45	224.00	
Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.																

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

#0241 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	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,843.20	0.00	0.00	0.00	0.00	1,843.20	1,843.20	
L005	Carpenter	md	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	7,396.40	0.00	0.00	0.00	0.00	7,396.40	7,396.40	
L020	Unskilled Labor	md	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,288.00	0.00	0.00	0.00	0.00	4,288.00	4,288.00	
N05001	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	5,694.36	5,994.00		
N05002	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	265.86	177.77	222.22	222.22	444.43		2.0%
	Total									13,527.60	8,960.56	177.77	656.92	22,009.12	22,658.03		
	Components (%)									59.7%	39.5%	0.8%	2.9%	97.1%	100.0%		
	Unit Rate	m2								135.48	89.74	1.78	6.58	220.42	227.00		
Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.																	

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	md	3.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,785.60	0.00	0.00	0.00	1,785.60	1,785.60	
L005	Carpenter	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	7,170.90	0.00	0.00	0.00	7,170.90	7,170.90	
L020	Unskilled Labor	md	13.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,160.00	0.00	0.00	0.00	4,160.00	4,160.00	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	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	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	427.68	470.45	5,211.67	3,143.59	2,966.11	6,109.70	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	935.04	223.20	279.20	279.20	558.40	2.0%
	Total									13,544.18	9,499.49	5,434.91	3,857.49	24,621.07	28,478.60	
	Components (%)									47.6%	33.4%	19.1%	13.5%	86.5%	100.0%	
	Unit Rate	m2								135.54	95.07	54.39	38.60	246.40	285.00	

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

W0243 Formwork (lean concrete)										Unit: 10.00 m2							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Loca		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	0.00	57.60	57.60	
L005	Carpenter	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	451.00	0.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	0.00	128.00	128.00	
M05001	Formwork Lumber, use 4 times	m3	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	29.60	662.40	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	17.99	11.99	14.99	14.99	29.97		2.0%
	Total									635.60	879.98	11.99	58.09	1,470.49	1,528.57		
	Components (%)									41.0%	57.6%	0.6%	3.8%	96.3%	100.0%		
	Unit Rate	m2								63.72	89.09	1.20	5.91	147.19	153.00		
	Miscellaneous covers the cost for nails, electric drill, saw, generator, etc.																

W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)										Unit: 10.00 m ²						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	578.00	334.08	0.00	0.00	0.00	0.00	334.08	334.08	
L006	Carpenter	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	1,858.12	0.00	0.00	0.00	0.00	1,858.12	1,858.12	
L020	Unskilled Labor	md	2.28	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	729.60	0.00	0.00	0.00	0.00	729.60	729.60	
M05001	Formwork Lumber, use 4 times	m ³	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	0.00	29.60	562.40	592.00	
M05002	Formwork, Plywood 8x1200x2400, 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	0.00	13.50	256.50	270.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	7.0%	7.7%	65.3%	51.5%	48.5%	1,070.00	59.92	66.91	730.17	440.43	415.57	856.00		
	Miscellaneous	LS	1.99	0.0%	90.0%	10.0%	55.0%	45.0%	0.00	0.00	83.82	9.28	51.04	41.76	92.80		2.0%
	Total									2,981.72	1,011.43	739.45	534.57	4,198.03	4,732.60		
	Components (%)									63.0%	21.4%	15.8%	11.3%	88.7%	100.0%		
	Unit Rate	m ²								298.01	101.09	73.90	53.43	419.57	473.00		
Miscellaneous covers the cost for, nails, electric drill, saws, separators, generator, etc.																	

W0251	Reinforcement Grade 40, cutting, bending & assembly										Unit: 1,000.00 kg.						
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks	
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total		
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	0.00	403.20	403.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	0.00	1,886.00	1,886.00	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	0.00	1,024.00	1,024.00	
M02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	17,120.00	0.00	11,128.00	5,992.00	17,120.00		
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	32.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	1,526.10		Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	77.74	1,157.61	1,061.15	888.21	1,929.36		
	Total									3,501.65	17,943.29	1,857.71	12,583.07	10,783.59	23,366.66		9.0%
	Components (%)									15.4%	76.8%	7.8%	53.9%	46.1%	100.0%		
	Unit Rate	kg								3.51	17.97	1.82	12.60	10.80	23.40		
Miscellaneous covers the cost for bar cutter, bar bender, binding wire, spacer, etc.																	

W0252	Reinforcement Grade 60, cutting, bending & assembly										Unit: 1,000.00 kg					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	1,886.00	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,024.00	0.00	0.00	0.00	1,024.00	1,024.00	
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	32.0%	48.0%	1,330.00	42.45	61.55	664.10	393.92	364.18	758.10	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	810.26	1,215.36	1,114.11	911.55	2,025.66	
	Total									3,601.65	19,051.81	1,879.49	13,331.53	11,201.43	24,532.96	
	Components (%)									14.7%	77.7%	7.7%	54.3%	45.7%	100.0%	
	Unit Rate	kg								3.60	19.03	1.88	13.31	11.19	24.50	
Miscellaneous covers the cost for bar cutter, bar bender, binding wire, spacer, etc.																

W0303 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #460 (18")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.03	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	39.33	1,476.65	255.62	1,023.71	747.89	1,771.60	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m3	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	41.09	0.51	218.98	117.35	143.23	260.58	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	92.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	331.63	1,754.22	173.06	1,227.52	1,031.38	2,258.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.8%	9.3%	75.2%	46.9%	53.1%	486.00	9.04	5.42	43.86	27.38	30.94	58.32	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.15	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	9.15	18.22	65.23	45.93	44.67	90.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		80.00	239.99	479.99	359.99	439.99	799.98	18.0%
	Total									513.46	3,493.35	1,237.50	2,802.48	2,441.83	5,244.31	
	Components (%)									9.8%	66.6%	23.6%	53.4%	46.6%	100.0%	
	Unit Rate	m								51.30	349.05	123.65	280.02	243.98	524.00	
Miscellaneous covers the cost for depreciation of mould and maintenance of fabrication yard, minor tools and devices, testing, etc.																

W0304 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #610 (24")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.60	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	61.09	2,293.83	397.08	1,590.24	1,161.76	2,752.00	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m3	1.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	63.86	0.79	340.39	182.42	222.64	405.08	
W0237	Concrete Curline (reinforced concrete)	m3	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.03	0.51	1.20	0.94	5.80	6.74	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	160.70	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	578.01	3,057.51	301.63	2,139.50	1,797.65	3,937.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.8%	9.3%	75.2%	46.9%	53.1%	486.00	13.66	8.14	65.78	41.07	46.41	87.48	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.34	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	14.64	25.95	104.37	73.49	71.47	144.96	
	Miscellaneous	LS	1.99	10.0%	30.0%	60.0%	45.0%	55.0%		132.00	396.00	792.01	594.00	728.01	1,320.01	18.6%
	Total									869.20	5,782.74	2,002.46	1,621.65	1,403.76	8,653.40	
	Components (%)									10.0%	66.8%	23.1%	53.4%	46.6%	100.0%	
	Unit Rate	m								86.92	578.05	200.17	162.16	140.38	865.00	
Miscellaneous covers the cost for depreciation of mould and maintenance of fabrication yard, minor tools and devices, testing, etc.																

W0305 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.30	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	87.81	3,297.38	570.81	2,285.97	1,670.03	3,956.00	Loss 2.0%
W0232	Concrete Curline (reinforced concrete)	m3	2.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	91.54	1.14	487.82	261.42	319.08	580.60	
W0237	Concrete Curline (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.35	8.30	9.65	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	888.41	4,699.48	463.61	3,288.46	2,763.04	6,051.50	
W0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	16.5%	9.3%	75.2%	46.9%	53.1%	488.00	19.59	11.75	95.02	59.32	87.04	126.36	
R0601-008	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.34	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	20.74	36.76	147.86	104.11	101.26	205.36	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		196.73	590.19	1,160.37	885.28	1,082.01	1,967.29	18.0%
	Total									1,312.93	8,637.43	2,947.20	6,866.50	5,097.75	12,895.66	
	Contingency (%)									10.24	61.04	22.94	63.43	45.64	100.00	
	Unit Rate	m								131.24	873.97	294.80	688.77	601.23	1,290.00	
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	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, 25MPa, max	m3	4.05	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	154.63	5,806.26	1,005.11	4,025.29	2,940.71	5,966.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	860.73	461.27	582.99	1,024.25	
W0237	Concrete Curing (reinforced concrete)	m3	3.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	12.71	1.30	3.02	2.38	14.65	17.03	
W0252	Reinforcement Grade 60, cutting, bonding & assembly	kg	545.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,993.50	10,386.41	1,024.04	7,207.01	6,106.64	13,374.85	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	35.41	21.24	171.77	107.23	121.19	228.42	
RO601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.61	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	37.21	65.95	266.28	185.78	181.66	368.44	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		395.62	1,186.85	2,373.70	1,780.27	2,175.89	3,956.17	18.0%
	Total									2,760.60	17,470.02	5,704.23	13,631.12	12,103.75	25,934.87	
	Components (%)									10.6%	67.4%	22.0%	53.5%	46.7%	100.0%	
	Unit Rate	m								215.69	1,744.65	569.66	1,381.25	1,208.75	2,490.00	

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 25MPa, max	m3	5.13	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	195.86	7,354.69	1,273.15	5,098.70	3,724.90	8,823.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.68	2.64	1,090.64	584.43	713.31	1,297.74	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	68.0%	4.29	18.10	1.64	3.83	3.01	18.87	21.69	
W0252	Reinforcement Grade 60, cutting, bunding & assembly	kg	684.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.60	2,461.66	13,021.84	1,284.69	9,111.84	7,655.96	16,767.80	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.59	15.5%	9.3%	75.2%	46.0%	53.1%	486.00	44.44	26.67	215.63	134.61	152.13	286.74	
RO601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.77	10.1%	17.0%	72.0%	50.7%	49.3%	604.00	46.97	83.25	334.86	235.77	229.31	465.08	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		497.93	1,493.78	2,987.55	2,240.67	2,739.59	4,979.26	18.0%
	Total									3,457.82	21,984.02	7,190.16	17,405.02	15,232.78	32,641.80	
	Components (%)									10.6%	67.3%	22.0%	53.3%	46.7%	100.0%	
	Unit Rate	m								346.32	2,195.59	718.09	1,738.67	1,521.33	3,250.00	

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

W0309 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #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, 25MPa, max	m3	7.62	2.2%	83.4%	14.4%	57.8%	42.2%	1,720.00	290.93	10,924.37	1,891.11	7,573.60	5,532.90	13,106.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,619.55	867.93	1,059.33	1,927.26	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	23.92	2.44	5.69	4.47	27.58	32.05	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,689.97	19,519.00	1,925.58	13,658.45	11,476.10	25,134.65	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	66.29	39.77	321.62	200.77	226.91	427.68	
RO601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.14	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	69.84	123.25	485.76	348.06	339.50	688.66	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		743.70	2,291.09	4,462.10	3,346.54	4,090.33	7,436.27	18.0%
	Total									5,185.25	32,843.70	10,721.49	26,000.81	22,752.66	46,753.47	
	Components (%)									10.6%	67.4%	22.0%	53.5%	46.7%	100.0%	
	Unit Rate									519.32	3,287.60	1,073.17	2,602.56	2,277.44	4,830.00	

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

W0313 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #480 (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	0.80	1.9%	85.6%	12.6%	58.2%	41.8%	1,980.00	30.63	1,355.28	198.08	921.63	662.37	1,684.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.78	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	31.74	0.39	169.11	90.63	110.61	201.24	
W0237	Concrete Curing (reinforced concrete)	m3	0.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.50	0.26	0.60	0.47	2.88	3.35	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	122.70	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	441.33	2,334.52	230.30	1,633.56	1,372.57	3,006.16	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	6.78	4.07	32.89	20.63	23.21	43.74	
RO601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.12	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	7.32	12.97	52.19	36.74	45.74	72.48	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		88.40	265.19	530.18	397.79	486.19	883.97	18.0%
	Total									608.70	3,972.83	1,213.55	3,101.37	2,693.57	5,794.93	
	Components (%)									10.5%	68.6%	20.9%	53.5%	46.5%	100.0%	
	Unit Rate									60.82	396.93	121.25	309.87	269.13	579.00	

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #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	1.33	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	50.93	2,253.16	329.31	1,532.21	1,101.19	2,633.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.30	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	52.89	0.66	281.85	151.05	184.35	335.40	
W0237	Concrete Curing (reinforced concrete)	m3	1.30	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.16	0.42	0.99	0.78	4.80	5.59	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	199.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	717.56	3,795.73	374.45	2,656.07	2,231.68	4,887.75	
RO402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	11.30	6.78	54.82	34.22	38.68	72.90	
RO601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.20	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	12.20	21.62	86.68	50.74	59.58	120.80	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		145.00	435.01	870.03	652.52	797.53	1,450.05	18.0%
	Total									994.05	6,513.39	1,998.44	5,088.08	4,171.80	9,505.88	
	Components (%)									10.5%	68.6%	21.0%	53.5%	46.5%	100.0%	
	Unit Rate	m								99.45	651.62	199.83	508.03	417.17	951.00	

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

W0315 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #780 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0216	Concrete (for RCPC, 32MPa, max	m3	1.93	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	73.90	3,269.62	477.88	2,223.43	1,597.97	3,821.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	76.90	0.96	409.77	219.60	268.02	487.62	
W0237	Concrete Curing (reinforced concrete)	m3	1.89	74.6%	7.6%	17.7%	14.0%	86.0%	4.29	6.05	0.62	1.44	1.13	0.98	8.11	
W0252	Reinforcement Grade 60, cutting, bending & assembly	m3	272.60	14.7%	77.7%	7.7%	54.3%	45.7%	24.60	980.49	5,186.55	511.66	3,629.29	3,049.41	6,678.70	
TR0402-010	Truck Crane, Hydraulic 6-10t	hr	0.22	16.6%	9.2%	75.2%	46.9%	63.1%	485.00	16.57	9.94	80.40	53.19	58.73	108.92	
R0501-006	Dump Truck, 6.0-9.0 cu yds (4.6-6.9m3)	hr	0.23	10.1%	17.6%	72.0%	50.7%	49.3%	604.00	17.69	31.35	188.12	115.36	116.36	188.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		233.00	609.01	1,218.01	913.51	1,115.51	2,030.02	18.0%
	Total									1,374.61	9,108.05	2,825.28	7,125.95	6,181.99	13,307.93	
	Component (%)									10.34	68.43	21.2%	53.6%	46.5%	100.0%	
	Unit Rate	m								137.38	910.26	282.36	712.17	617.83	1,350.00	

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 (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	3.32	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	127.13	5,624.42	922.05	3,824.75	2,748.85	6,573.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	132.23	1.64	704.63	377.61	460.89	838.50	
W0237	Concrete Curing (reinforced concrete)	m3	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	10.40	1.06	2.48	1.95	11.99	13.94	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	609.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,190.46	11,588.97	1,143.07	8,108.00	8,812.50	14,920.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.38	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	28.63	17.18	138.88	86.70	97.98	184.68	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.50	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	30.50	84.06	217.44	153.10	148.90	302.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		411.09	1,232.99	2,455.99	1,849.49	2,260.49	4,109.96	18.0%
	Total									2,930.35	18,518.32	5,494.53	14,401.59	12,541.61	26,943.20	
	Components (%)									10.9%	58.7%	20.4%	53.8%	48.5%	100.0%	
	Unit Rate	m								292.67	1,848.80	548.57	1,437.85	1,252.15	2,690.00	

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 (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	4.30	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	164.65	7,284.65	1,084.70	4,953.75	3,560.25	8,514.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.22	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	171.70	2.13	914.93	490.32	598.44	1,088.76	
W0237	Concrete Curing (reinforced concrete)	m3	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.51	1.38	3.21	2.63	16.57	18.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,838.09	15,002.17	1,479.99	10,497.79	8,820.46	19,318.25	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.50	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	37.67	22.80	182.74	114.07	128.93	243.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.65	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	39.65	70.28	282.67	199.02	193.58	392.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		532.34	1,597.03	3,194.07	2,395.55	2,927.90	5,323.45	18.0%
Total										3,705.61	23,980.24	7,122.31	18,653.03	16,743.13	34,898.16	
Components (%)										10.9%	68.7%	20.4%	53.8%	48.5%	100.0%	
Unit Rate									m	370.55	2,398.05	712.27	1,865.40	1,674.30	3,490.00	

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 (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	6.27	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	240.09	10,622.03	1,552.48	7,223.26	5,191.34	12,414.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	6.15	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	250.22	3.11	1,333.37	714.56	872.14	1,586.70	
W0237	Concrete Curing (reinforced concrete)	m3	6.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	19.69	2.01	4.69	3.66	22.70	26.36	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,186.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.60	4,266.90	22,570.80	2,226.84	15,793.95	13,270.40	29,064.35	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.72	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	54.24	32.84	263.14	164.27	185.65	349.92	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.94	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	67.34	101.63	408.79	287.82	279.94	567.75	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		792.17	2,378.32	4,753.05	3,564.79	4,359.96	7,921.75	18.0%
	Total									5,680.66	35,708.55	10,542.15	27,752.32	24,119.14	51,931.45	
	Components (%)									10.9%	68.7%	20.3%	53.4%	48.6%	100.0%	
	Unit Rate	m								557.72	3,568.70	1,053.58	2,773.85	2,416.45	5,190.00	

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 (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m3	1.03	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	59.44	1,744.93	255.03	1,188.60	852.80	2,039.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	41.09	0.51	218.98	117.35	143.23	260.58	
W0237	Concrete Curing (reinforced concrete)	m3	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.23	0.33	0.77	0.60	3.73	4.33	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	158.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	569.02	3,009.95	298.94	2,106.22	1,769.68	3,878.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	9.04	5.42	43.88	27.38	30.94	58.32	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.15	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	9.15	16.22	65.23	45.93	44.87	90.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		113.02	341.17	639.55	519.66	628.58	1,129.34	18.0%
	Total									784.90	5,119.13	1,564.35	3,998.73	3,471.84	7,469.37	
	Components (%)									10.5%	68.3%	20.9%	53.5%	48.5%	100.0%	
	Unit Rate	m								78.51	512.02	156.47	399.76	347.18	747.00	

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

W0332 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #610 (24")											Unit:		10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	1.60	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	61.27	2,710.87	396.17	1,843.25	1,324.75	3,168.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.67	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	63.88	0.79	340.39	182.42	222.64	405.06	
W0237	Concrete Curing (reinforced concrete)	m3	1.67	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.03	0.51	1.20	0.94	5.80	6.74	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	228.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	821.51	4,348.69	428.70	3,040.83	2,554.97	5,595.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	13.86	8.14	65.78	41.07	46.41	87.46	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.24	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	14.64	25.95	104.37	73.49	71.47	144.96	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		169.34	508.03	1,016.07	762.05	931.40	1,693.45	18.0%
	Total									1,149.25	7,509.58	2,352.88	5,946.05	5,107.44	11,101.49	
	Components (%)									10.4%	68.5%	21.2%	53.5%	46.5%	100.0%	
	Unit Rate	m								114.93	750.96	235.24	594.33	510.74	1,110.00	

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 (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max)	m3	2.30	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	88.07	3,896.44	569.49	2,649.68	1,904.32	4,554.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	91.54	1.14	487.82	261.42	319.08	580.60	
W0237	Concrete Curing (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.35	8.30	9.65	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	345.10	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,241.26	6,585.95	647.74	4,694.53	3,860.42	8,464.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	16.5%	9.3%	75.2%	46.9%	53.1%	480.00	19.59	11.75	95.02	59.32	67.04	126.36	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.34	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	20.74	36.76	147.86	104.11	101.25	205.35	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		250.75	752.26	1,504.53	1,128.40	1,379.15	2,502.65	18.0%
	Total									11,255.03	5,454.17	8,798.50	7,639.57	10,438.37		
	Components (%)									10.5%	68.5%	21.0%	53.5%	46.5%	100.0%	
	Unit Base	m								171.51	1,123.87	344.61	877.83	762.17	1,640.00	

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.05	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	155.08	6,861.12	1,002.80	4,665.74	3,353.26	8,019.00	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	860.73	461.27	562.99	1,024.28	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	907.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,478.12	18,398.35	1,815.03	12,874.27	10,817.23	23,691.50	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.47	8.5%	8.3%	83.2%	50.5%	49.5%	891.00	35.20	34.37	344.61	209.26	204.81	414.07	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.61	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	37.21	65.95	255.28	186.78	181.66	368.44	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		603.62	1,810.85	3,621.70	2,716.28	3,319.90	6,036.17	18.0%
	Total									4,483.46	27,173.95	7,913.06	21,115.98	18,454.50	59,570.47	
	Components (%)									11.3%	68.7%	20.0%	53.4%	46.6%	100.0%	
	Unit Rate	m								448.35	2,717.42	791.30	2,111.17	1,846.83	5,960.00	

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

W0336 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1220 (48")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate						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 Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.13	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	195.44	8,690.75	1,270.21	5,909.94	4,247.46	10,157.40	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.65	2.64	1,090.54	584.43	713.31	1,297.74	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	16.10	1.04	3.83	3.01	18.57	21.58	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	982.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,533.16	18,689.46	1,843.74	13,077.97	10,988.39	24,066.35	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.59	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	44.18	43.14	432.47	262.69	257.10	519.79	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.77	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	46.97	83.26	334.80	236.77	229.31	466.08	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		657.50	1,972.51	3,945.02	2,958.76	3,616.27	6,576.03	18.0%
	Total									4,699.00	29,483.29	8,920.67	23,032.51	20,070.40	43,102.97	
	Components (%)									10.9%	68.4%	20.0%	53.4%	46.6%	100.0%	
	Unit Rate	m								469.87	2,948.13	892.01	2,303.10	2,006.90	4,310.00	

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

W0337 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #1520 (60")										Unit: 10.00 m						
Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	7.62	1.9%	85.6%	12.5%	58.2%	41.8%	1,980.00	291.78	12,909.07	1,886.75	8,778.60	6,309.10	15,087.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,610.55	867.93	1,059.33	1,927.26	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	23.92	2.44	5.69	4.17	27.58	32.05	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,824.80	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	6,563.47	34,719.05	3,425.09	24,294.70	20,412.90	44,707.60	
R0402-023	Truck Crane, Hydraulic 15-20t	hr	0.88	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	85.91	72.60	803.18	484.48	457.12	941.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-5.9m3)	hr	1.14	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	69.54	123.25	495.76	349.06	338.50	688.56	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		1,140.92	3,422.77	6,845.54	5,134.18	6,215.08	11,409.24	18.0%
Total										8,459.48	51,252.86	15,081.57	39,913.29	34,880.62	74,793.91	
Components (%)										11.3%	65.5%	20.2%	53.4%	46.6%	100.0%	
Unit Rate										846.02	5,125.70	1,508.28	3,991.65	3,488.35	7,480.00	

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

W0341 Precast Concrete Pipe Laying #460 (18")										Unit: 10.00 m									
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks		
				Component (%)							Component (PP)								
				Labor	Material	Equip.	For.	Local			Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40				
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	164.00	0.00	0.00	0.00	164.00	164.00				
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384.00	0.00	0.00	0.00	384.00	384.00				
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	171.75	103.05	833.28	520.18	587.90	1,108.08				
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		8.05	59.42	85.03	59.42	72.63	132.05	7.0%			
	Total									956.76	162.48	899.30	579.60	1,138.93	2,018.53				
	Components (%)									47.4%	8.0%	44.6%	28.7%	71.3%	100.0%				
	Unit Rate									95.75	16.25	90.00	58.00	144.00	202.00				

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					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local	Total (PP)
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.66	15.5%	9.3%	76.2%	46.9%	53.1%	486.00	215.44	129.27	1,045.25	652.50	737.46	1,395.96	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		8.05	72.42	80.46	72.42	86.51	160.93	7.0%
										1,132.49	201.68	1,125.71	724.92	1,734.97	2,459.89	
	Total									46.0%	8.2%	45.8%	29.2%	70.5%	100.0%	
	Component (%)															
	Unit Rate									113.25	20.17	112.58	72.50	173.50	245.99	

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)						
				Labor	Material	Equipment	Foreign	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60		
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00		
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00		
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	288.38	155.03	1,253.57	782.55	884.43	1,666.98	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		9.92	89.29	99.21	89.29	109.13	198.42	7.0%
Total										1,435.90	244.32	1,352.78	871.84	2,161.16	3,033.00	
Components (%)										47.3%	8.1%	44.6%	28.7%	71.9%	100.0%	
Unit Rate			m							143.45	24.43	135.14	87.10	215.90	303.00	

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

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40
L019	Skilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	369.00	0.00	0.00	0.00	369.00	369.00
L020	Unskilled Labor	md	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	800.00	0.00	0.00	0.00	800.00	800.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.14	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	384.91	376.85	3,767.58	2,486.54	2,239.80	4,528.34
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.75	195.80	217.55	195.80	239.31	435.13
	Total									2,094.06	571.65	3,985.13	2,486.34	4,166.30	6,650.94
	Components (%)									31.5%	8.6%	69.9%	37.4%	62.6%	100.0%
	Unit Rate	m								209.38	57.16	398.45	248.40	416.60	665.00

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

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

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	470.37	517.41	5,731.82	3,457.40	3,262.20	6,719.60
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		30.67	276.07	306.75	276.07	337.42	613.49
	Total									2,545.65	793.48	6,038.57	3,733.47	5,644.23	9,377.69
	Components (%)									27.1%	8.9%	64.4%	39.8%	60.2%	100.0%
	Unit Rate	m								254.53	79.37	604.01	373.41	564.55	938.00

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

#0351 Precast Concrete Pipe Removal #450 (18")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	69.12	0.00	0.00	0.00	69.12	69.12
L019	Skilled Labor	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	49.20	0.00	0.00	0.00	49.20	49.20
L020	Unskilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	115.20	0.00	0.00	0.00	115.20	115.20
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.68	15.8%	9.3%	75.2%	46.9%	53.1%	486.00	51.22	30.73	246.62	155.14	176.34	339.48
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.64	5.64	45.12	25.38	31.02	56.40
	Total									290.38	35.37	293.64	180.52	439.88	620.40
	Components (%)									45.8%	5.9%	47.3%	29.1%	70.9%	100.0%
	Unit Rate	m								29.02	3.54	29.35	18.04	43.96	62.00

Miscellaneous covers the costs for demolition, disposal, etc.

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

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	86.40	0.00	0.00	0.00	86.40	86.40
L019	Skilled Labor	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	61.50	0.00	0.00	0.00	61.50	61.50
L020	Unskilled Labor	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	124.80	0.00	0.00	0.00	124.80	124.80
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.8%	9.3%	75.2%	46.9%	53.1%	486.00	64.78	38.87	314.31	196.21	221.75	417.95
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		6.91	6.91	55.25	31.08	37.89	69.07
	Total									344.39	45.78	369.56	227.29	312.92	739.73
	Components (%)									45.3%	6.0%	48.6%	29.0%	70.1%	100.0%
	Unit Rate	m								34.45	4.58	35.97	22.74	31.26	76.00

Miscellaneous covers the costs for demolition, disposal, etc.

#0353 Precast Concrete Pipe Removal #780 (30")

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	103.68	0.00	0.00	0.00	103.68	103.68
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	73.80	0.00	0.00	0.00	73.80	73.80
L020	Unskilled Labor	md	0.54	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	172.80	0.00	0.00	0.00	172.80	172.80
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.03	15.8%	9.3%	75.2%	46.9%	53.1%	486.00	77.99	46.55	376.44	234.99	265.59	500.58
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.51	8.51	68.07	38.29	46.80	85.09
	Total									435.38	55.06	444.50	273.28	362.66	935.95
	Components (%)									45.6%	5.9%	47.5%	29.2%	70.8%	100.0%
	Unit Rate	m								43.54	5.51	44.45	27.33	36.27	93.60

Miscellaneous covers the costs for demolition, disposal, etc.

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

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	120.96	0.00	0.00	0.00	120.96	120.96
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	85.10	0.00	0.00	0.00	85.10	85.10
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	182.40	0.00	0.00	0.00	182.40	182.40
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	89.86	87.75	879.89	534.29	622.91	1,057.29
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.47	14.47	115.73	65.10	79.57	144.67
	Total									493.79	102.21	995.32	599.39	691.94	1,591.33
	Components (%)									31.0%	6.4%	62.5%	37.7%	62.3%	100.0%
	Unit Rate	m								49.34	10.21	99.45	59.99	69.11	159.00

Miscellaneous covers the costs for demolition, disposal, etc.

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

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	138.24	0.00	0.00	0.00	138.24	138.24
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	98.40	0.00	0.00	0.00	98.40	98.40
L020	Unskilled Labor	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	220.80	0.00	0.00	0.00	220.80	220.80
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.37	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	102.69	100.18	1,004.20	609.98	696.99	1,206.97
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		16.64	16.64	135.15	74.90	91.64	165.44
	Total									576.68	116.82	1,139.35	684.88	1,145.97	1,830.83
	Components (%)									31.5%	6.4%	62.1%	37.4%	62.6%	100.0%
	Unit Rate	m								57.64	11.68	113.68	68.46	114.51	183.00

Miscellaneous covers the costs for demolition, disposal, etc.

#0356 Precast Concrete Pipe Removal #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	
L002	Foreman	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	155.52	0.00	0.00	0.00	155.52	155.52
L019	Skilled Labor	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	110.70	0.00	0.00	0.00	110.70	110.70
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.54	8.5%	83.2%	83.2%	80.5%	49.5%	891.60	118.32	112.81	1,128.81	685.17	671.97	156.74
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		18.83	18.83	149.04	83.83	102.46	186.30
	Total									610.17	131.24	1,277.84	769.51	1,279.75	2,049.26
Components (%)										31.2%	6.4%	62.4%	37.6%	62.4%	100.0%
Unit Rate										64.04	13.13	127.84	76.98	128.02	205.00

#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					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	408.96	0.00	0.00	0.00	408.96	408.96	
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	582.20	0.00	0.00	0.00	582.20	582.20	
L020	Unskilled Labor	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	227.20	0.00	0.00	0.00	227.20	227.20	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	4.85	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	303.77	337.90	2,771.44	1,673.31	1,739.79	3,413.10	
R0401-040	Crawler Crane, 36-40t	hr	4.85	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	344.87	761.67	7,961.27	4,820.65	4,246.84	9,067.50	
R1001-150	Generator 101-150 kW	day	0.71	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,337.94	1,225.16	1,536.55	1,026.54	2,563.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.79	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	207.80	282.33	3,250.57	1,928.14	1,782.66	3,710.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,014.49	2,689.83	15,208.44	9,358.66	10,014.10	19,972.78	
	Components (%)									10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m ²								20.77	26.94	152.22	99.72	100.28	200.00	

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

 T_c : Construction time per pile

a : Coefficient

γ : Coefficient

L : Pile driving length

= 11.2 min/pile

= 3.75

= 0.02

= 7.80 m

 N_{max} : Maximum N-value

K : Coefficient

F : Work factor

= 10.00

= 1.00

= 1.00

T : Operation hour per day

Sheet Pile width

Sheet Pile length

= 6.56 hr/day

= 0.400 m

= 10.000 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					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	524.16	0.00	0.00	0.00	524.16	524.16	
L019	Skilled Labor	md	1.82	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	746.20	0.00	0.00	0.00	746.20	746.20	
L020	Unskilled Labor	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	291.20	0.00	0.00	0.00	291.20	291.20	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	5.95	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	388.69	432.36	3,548.25	2,141.11	2,228.19	4,367.30	
R0401-040	Crawler Crane, 36-40t	hr	5.95	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	440.90	974.61	10,167.00	6,168.37	5,434.13	11,602.50	
R1001-150	Generator 101-150 kW	day	0.91	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,714.82	1,570.28	1,969.40	1,315.70	3,285.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	265.69	322.87	4,189.34	2,487.19	2,280.91	4,748.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,657.04	3,444.67	19,462.86	12,746.06	12,819.50	25,564.56	
	Components (%)									10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m ²								26.81	34.49	194.90	127.64	128.35	256.00	

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

 T_c : Construction time per pile

a : Coefficient

γ : Coefficient

L : Pile driving length

= 14.3 min/pile

= 3.75

= 0.02

= 7.80 m

 N_{max} : Maximum N-value

K : Coefficient

F : Work factor

= 30.00

= 1.00

= 1.00

T : Operation hour per day

Sheet Pile width

Sheet Pile length

= 6.56 hr/day

= 0.400 m

= 10.000 m

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

 Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.94	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	257.38	286.30	2,348.27	1,417.81	1,474.15	2,891.98	
R0401-040	Crawler Crane, 36-40t	hr	3.94	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	291.95	648.37	6,745.67	4,084.50	3,598.40	7,683.00	
R1001-150	Generator 101-150 kW	day	0.60	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,130.65	1,035.35	1,298.59	867.80	2,165.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.36	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	175.77	213.44	2,749.59	1,530.97	1,336.80	3,136.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,754.71	2,275.77	12,878.88	8,431.89	8,477.47	16,909.36	
	Components (%)									10.4%	13.5%	76.2%	49.9%	50.1%	100.0%	
	Unit Rate	m ²								17.54	22.76	128.72	84.27	84.73	169.00	

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

 T_c : Construction time per pile

a : Coefficient

γ : Coefficient

L : Pile pullout length

= 9.8 min/pile

= 3.60

= 0.00

= 7.80 m

 N_{max} : Maximum N-value

K : Coefficient

F : Work factor

= 30.00

= 1.00

= 1.00

T : Operation hour per day

Sheet Pile width

Sheet Pile length

= 6.56 hr/day

= 0.400 m

= 10.000 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					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	241.92	0.00	0.00	0.00	241.92	241.92	
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	344.40	0.00	0.00	0.00	344.40	344.40	
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	134.40	0.00	0.00	0.00	134.40	134.40	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.73	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	178.34	198.38	1,627.10	982.39	1,021.43	2,003.82	
R0401-040	Crawler Crane, 36-40t	hr	2.73	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	202.29	447.17	4,074.03	2,467.35	2,173.65	5,323.50	
R1001-150	Generator 101-150 kW	day	0.42	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	791.46	724.74	908.95	607.25	1,816.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.54	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	122.15	148.32	1,910.73	1,133.39	1,047.81	2,181.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,223.50	1,585.33	8,934.92	5,431.89	5,493.62	11,745.44	
	Components (%)									10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m								12.10	15.79	89.02	58.32	58.69	117.00	

$$T_c = (T_a + T_b) / F$$

 T_c : Construction time per pile

 T_a : Preparation time per pile

 T_b : Driving time per pile

γ : Driving time per unit meter

= 19.6 min/pile

= 10.00 min/pile

= γ · L · K = 5.70 min/pile

 = 0.01 · N_{max} + 0.65 = 0.96 min/m

L : Pile Driving length

K : Coefficient

 N_{max} : Maximum N-value

F : Work factor

T : Operation hour per day

Pile Length

= 6.00 m

= 1.00

= 30.00

= 0.80

= 6.56 hr/day

= 12.00 m

= 6.00 m

= 1.00

= 30.00

= 0.80

= 6.56 hr/day

W0412 Temporary Struts & Supports Removal

Unit Rate														Amount						Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (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%	575.00	575.00	0.00	0.00	0.00	575.00	575.00					
L019	Skilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	820.00	0.00	0.00	0.00	820.00	820.00					
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00					
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	0.00	640.00	640.00					
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.71	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	427.89	417.53	4,185.38	2,542.33	2,488.18	5,030.51					
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00					
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	340.90	410.65	410.65	340.90	757.55					
										2,972.89	758.43	4,602.64	2,558.98	5,074.09	8,333.06					
	Components (%)									35.7%	9.1%	55.2%	35.5%	64.5%	100.0%					
	Unit Rate									297.15	75.82	460.93	295.79	537.21	833.00					

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

W0413 Temporary Struts & Tie Rod Installation

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	2,880.00	0.00	0.00	0.00	0.00	2,880.00	2,880.00
L019	Skilled Labor	md	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,100.00	0.00	0.00	0.00	0.00	4,100.00	4,100.00
L009	Welder	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	2,545.00	0.00	0.00	0.00	0.00	2,545.00	2,545.00
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	28.55	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	2,137.97	2,097.65	20,926.92	12,711.65	12,440.60	25,152.55	
R0901-025	Welding Machine 250A	day	5.00	0.0%	39.6%	60.2%	58.6%	41.4%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.58	2,940.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	1,411.83	1,725.57	1,725.57	1,411.83	3,137.40	8.0%
	Total									13,252.97	4,603.61	24,422.37	18,159.64	25,195.31	42,354.95	
	Components (%)									31.3%	11.0%	57.7%	38.2%	61.8%	100.0%	
	Unit Rate									1,327.11	497.46	2,444.83	1,617.88	2,022.32	4,240.00	

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

W0414 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,152.00	0.00	0.00	0.00	1,152.00	1,152.00	
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,050.00	0.00	0.00	0.00	2,050.00	2,050.00	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	0.00	640.00	640.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	1,240.10	1,210.92	12,138.35	7,373.20	7,216.18	14,589.36	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	792.41	968.51	968.51	792.41	1,760.92	9.0%
	Total									6,216.50	2,003.33	12,106.85	8,341.71	12,984.67	21,326.68	
	Components (%)									29.1%	9.4%	51.5%	39.1%	60.9%	100.0%	
	Unit Rate									620.87	200.08	1,309.05	833.13	1,298.57	2,130.00	

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

W0415 Temporary Deck Plate Installation

Unit Rate										Amount						Remarks	
Item No.	Description	Unit	Quantity	Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60		
L019	Skilled Labor	md	3.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,353.00	0.00	0.00	0.00	1,353.00	1,353.00		
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00		
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	352.00	0.00	0.00	0.00	352.00	352.00		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	6.28	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	470.28	459.21	4,603.19	2,796.12	2,736.68	5,532.68		
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									2,808.88	459.21	4,603.19	2,796.12	5,076.16	7,871.28		
	Components (%)									35.7%	5.8%	58.8%	35.5%	64.5%	100.0%		
	Unit Rate	m2								28.08	4.59	46.02	27.95	50.74	78.70		

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

W0416 Temporary Deck Plate Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Total (PP)	Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	Per.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60		
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	738.00	0.00	0.00	0.00	738.00	738.00		
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	0.00	0.00	0.00	0.00	0.00	0.00		
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.43	8.5%	8.3%	83.2%	50.5%	49.5%	891.00	258.86	250.81	2,514.16	1,527.18	1,494.65	3,021.83		
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									1,532.46	250.81	2,514.16	1,527.18	2,170.25	4,297.43		
	Components (%)									35.7%	5.8%	58.6%	35.5%	64.5%	100.0%		
	Unit Rate	m2								15.32	2.51	25.18	15.28	21.72	43.00		

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

W0417 Temporary Deck Plate Support Beam Installation

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	748.80	0.00	0.00	0.00	748.80	748.80		
L019	Skilled Labor	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,599.00	0.00	0.00	0.00	1,599.00	1,599.00		
L009	Welder	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,323.40	0.00	0.00	0.00	1,323.40	1,323.40		
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	7.42	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	555.85	542.57	5,438.80	3,303.69	3,233.33	6,537.02		
R0901-025	Welding Machine 250A	day	1.30	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	304.23	460.17	447.83	316.57	764.40		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	341.66	797.20	626.37	512.49	1,139.88	10.0%		
	Total									4,642.85	1,188.48	5,696.17	4,377.90	8,149.59	12,627.48		
	Components (%)									37.1%	9.6%	83.5%	34.9%	65.1%	100.0%		
	Unit Rate									483.27	118.59	668.15	436.83	813.17	1,250.00		

W0422 Temporary Access Bridge Superstructure Removal

				Unit: 10.00 t											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	779.00	0.00	0.00	0.00	779.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	480.00	0.00	0.00	0.00	480.00	
R0401-025	Crawler Crane, 21-25t	hr	4.66	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	341.67	581.57	6,346.36	3,833.41	3,436.19	7,269.60
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	261.14	585.99	480.42	378.71	837.14
	Total									2,373.57	832.71	6,932.36	4,293.83	5,844.80	10,138.64
	Components (%)									23.4%	8.2%	68.4%	42.4%	57.6%	100.0%
	Unit Rate									236.45	82.95	690.60	427.75	582.25	1,010.00

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

W0423 Temporary Access Bridge Railing Installation

				Unit: 100.00 m											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	902.00	0.00	0.00	0.00	902.00	
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,476.10	0.00	0.00	0.00	1,476.10	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	
R0401-025	Crawler Crane, 21-25t	hr	4.07	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	299.41	507.94	5,542.85	3,348.08	3,001.14	8,349.20
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	208.87	498.91	382.37	313.01	899.88
	Total									3,855.11	1,166.81	6,028.76	3,730.61	6,301.85	10,532.45
	Components (%)									36.5%	5.4%	58.1%	34.0%	65.0%	100.0%
	Unit Rate									38.74	7.14	60.11	37.19	68.81	105.00

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

W0424 Temporary Access Bridge Railing Removal

				Unit: 100.00 m											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	
L009	Welder	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,018.00	0.00	0.00	0.00	1,018.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	
R0401-025	Crawler Crane, 21-25t	hr	2.33	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00	170.84	290.78	3,173.18	1,918.70	1,718.10	3,634.80
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	17.01	39.70	31.19	25.52	56.71
	Total									2,206.84	307.80	3,212.88	1,947.89	3,779.51	5,727.51
	Components (%)									36.5%	5.4%	58.1%	34.0%	65.0%	100.0%
	Unit Rate									22.06	3.08	32.14	19.49	37.81	57.90

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

W0431 Temporary Drain Pump Installation & Removal

				Unit: 1.00 set											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	
L020	Unskilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	896.00	0.00	0.00	0.00	896.00	
R0402-005	Truck Crane, Hydraulic 2-5t	hr	4.57	18.2%	10.9%	70.9%	45.8%	54.4%	413.00	343.51	205.73	1,338.17	860.85	1,028.56	1,887.41
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,354.71	205.73	1,338.17	860.85	2,037.76	2,898.61
	Components (%)									46.7%	7.1%	46.2%	29.7%	76.3%	100.0%
	Unit Rate									1,355.36	205.83	1,338.82	861.26	2,038.74	2,900.00

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

W0432 Temporary Drain Pump Operation

				Unit: 1.00 day											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	98.40	0.00	0.00	0.00	98.40	
R1004-102	Electric Water Pump 3 1/2 - 4 (89.9-101.6cm)	day	1.00	0.0%	27.1%	72.3%	53.1%	46.9%	195.00	0.00	54.02	140.99	103.62	91.38	195.00
R1001-015	Generator 11-15 kW	day	1.00	0.0%	21.1%	78.9%	56.6%	43.4%	883.00	0.00	188.31	696.69	499.66	383.34	883.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	5.88	5.88	5.88	5.88	11.76
	Total									98.40	246.59	844.86	610.10	579.60	1,900.00
	Components (%)									98.40	246.59	844.86	610.10	579.60	1,900.00
	Unit Rate									98.55	246.59	844.86	610.10	579.60	1,900.00

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

W0441 Temporary Frame Support Installation & Removal

				Unit: 100.00 m3											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	541.44	0.00	0.00	0.00	541.44	
L019	Skilled Labor	md	3.74	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,533.40	0.00	0.00	0.00	1,533.40	
L020	Unskilled Labor	md	2.97	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	950.40	0.00	0.00	0.00	950.40	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.60	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	119.17	144.70	1,864.13	1,105.74	1,022.26	2,128.00
	Miscellaneous	LS	1.00	5.0%	49.0%	55.0%	50.0%	50.0%		7.73	81.84	85.03	77.30	77.30	154.60
	Total									3,152.14	206.54	1,949.16	1,183.04	4,124.80	5,307.84
	Components (%)									59.4%	3.9%	36.7%	22.3%	77.7%	100.0%
	Unit Rate									31.53	2.07	19.50	11.81	41.25	53.10

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

W0442 Temporary Frame Support Depreciation

				Unit: 100.00 m3-d											
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
M05062	Temporary Frame Support (Portal 1219x1700)	day	17.68	0.0%	100.0%	0.0%	50.0%	50.0%	1.65	0.00	29.01	0.00	14.51	14.51	29.01
M05068	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%	50.0%	50.0%	50.0%	50.0%		0.00	2.82	2.82	2.82	2.82	5.64
	Total									0.00	73.33	2.82	38.08	38.08	76.15
	Components (%)									0.0%	85.3%	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.

W0461 Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)

R0461 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	nd	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	516.00	241.92	0.00	0.00	0.00	0.00	241.92	241.92	
L019	Skilled Labor	nd	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	0.00	344.40	344.40	
L020	Unskilled Labor	nd	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	134.40	0.00	0.00	0.00	0.00	134.40	134.40	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.78	8.9%	9.9%	81.2%	49.0%	81.0%	734.00	181.61	202.01	1,656.90	1,000.39	1,040.13	2,040.82		
R0401-040	Crawler Crane, 36-40t	hr	2.78	3.8%	8.4%	87.8%	53.2%	45.8%	1,950.00	206.00	455.35	4,769.84	2,882.03	2,538.97	5,421.00		
R0401-200	Generator 161-200 kW	day	0.42	0.0%	0.0%	47.6%	62.4%	59.4%	5,280.00	0.00	1,055.58	1,162.02	1,217.72	899.88	2,117.60		
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.67	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	124.38	161.65	1,945.68	1,154.12	1,066.98	2,221.10		
	Miscellaneous	LS	1.00								0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									1,232.71	1,863.99	9,524.25	6,354.25	6,226.89	12,620.91		
	Components (%)									9.8%	4.8%	75.5%	50.3%	49.7%	100.0%		
	Unit Rate	m								12.31	8.61	95.08	63.4%	62.6%	126.00		

W0462 Temporary Sheet Pile Removal for Cofferdam (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	876.00	149.76	0.00	0.00	0.00	149.76	149.76
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	213.20	0.00	0.00	0.00	213.20	213.20
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	83.20	0.00	0.00	0.00	83.20	83.20
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.71	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	111.71	124.26	1,019.17	616.35	639.79	1,255.14
R0401-040	Crawler Crane, 36-40t	hr	1.71	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	126.71	260.10	2,927.69	1,772.75	1,561.74	3,334.50
R1001-200	Generator 151-200 kW	day	0.26	0.0%	0.0%	47.6%	52.4%	40.6%	5,280.00	0.00	653.45	710.35	815.73	557.07	1,372.80
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	76.71	93.15	1,200.03	711.82	658.08	1,369.90
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									761.29	1,150.96	5,865.24	3,915.65	3,862.85	7,778.50
	Components (%)									9.8%	14.8%	58.67	50.3%	49.7%	100.0%
	Unit Rate	m								7.61	11.51	58.67	39.16	38.64	77.85

$$T_c = (10.76 + \gamma \cdot N_{max}) \cdot L \cdot n \cdot K / F$$

Tc : Construction time per pile

n : Coefficient

γ : Coefficient

L : Pile pullout length

15.4 min/pile

3.43

0.00

15.00 m

Nmax : Maximum N-value

K : Coefficient

F : Work factor

30.00

1.05

1.00

T : Operation hour per day

Sheet Pile width

Sheet Pile length

6.56 hr/day

0.400 m

15.000 m

W0465 H-Pile Driving for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	876.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	410.00	410.00
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.27	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	213.82	237.62	1,948.95	1,176.71	1,223.47	2,400.18
R0401-040	Crawler Crane, 36-40t	hr	3.27	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	242.31	535.83	5,598.57	3,390.01	2,986.49	6,376.50
R1001-200	Generator 151-200 kW	day	0.50	0.0%	0.0%	47.6%	52.4%	40.6%	5,280.00	0.00	1,256.64	1,383.36	1,548.71	1,071.29	2,640.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.95	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	145.98	177.26	2,263.56	1,354.53	1,282.27	2,606.80
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,459.90	2,207.15	11,214.43	7,495.97	7,391.51	14,881.48
	Components (%)									9.8%	14.8%	75.4%	50.3%	49.7%	100.0%
	Unit Rate	m								14.62	22.10	112.28	74.99	74.01	149.00

$$T_c = (T_a + T_b) / F$$

Tc : Construction time per pile

Ta : Preparation time per pile

Tb : Driving time per pile

γ : Driving time per unit meter

29.4 min/pile

10.00 min/pile

γ · L · K = 13.54 min/pile

0.01 · Nmax + 0.06 = 0.05 min/m

L : Pile Driving length

K : Coefficient

Nmax : Maximum N-value

F : Work factor

T : Operation hour per day

Pile Length

15.00 m

0.95

30.00

0.90

6.56 hr/day

15.00 m

W0466 H-Pile Removal for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	876.00	167.04	0.00	0.00	0.00	167.04	167.04
L019	Skilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	237.80	0.00	0.00	0.00	237.80	237.80
L020	Unskilled Labor	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	92.80	0.00	0.00	0.00	92.80	92.80
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.88	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	122.81	138.61	1,120.50	676.52	703.40	1,378.92
R0401-040	Crawler Crane, 36-40t	hr	1.88	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	139.31	307.94	3,218.75	1,949.00	1,717.00	3,666.00
R1001-200	Generator 151-200 kW	day	0.29	0.0%	0.0%	47.6%	52.4%	40.6%	5,280.00	0.00	728.85	802.35	909.86	621.35	1,531.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.13	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	84.16	102.20	1,316.54	780.93	721.97	1,502.90
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									843.92	1,275.63	6,455.13	4,316.30	4,261.35	8,577.65
	Components (%)									9.8%	14.8%	75.4%	50.3%	49.7%	100.0%
	Unit Rate	m								8.44	12.76	64.50	43.17	42.63	85.80

$$T_c = (T_a + T_b) / F$$

Tc : Construction time per pile

Ta : Preparation time per pile

Tb : Pull out time per pile

γ : Pull out time per unit meter

17.0 min/pile

6.00 min/pile

γ · L · K = 9.28 min/pile

0.65 min/m

L : Pile pull out length

K : Coefficient

Nmax : Maximum N-value

F : Work factor

T : Operation hour per day

Pile Length

15.00 m

0.95

30.00

0.90

6.56 hr/day

15.00 m

W0501 Ground Assembly of Structural Steel Bridge Members

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	23.04	0.00	0.00	0.00	23.04	23.04
L019	Skilled Labor	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	94.30	0.00	0.00	0.00	94.30	94.30
L020	Unskilled Labor	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	12.80	0.00	0.00	0.00	12.80	12.80
R0402-100	Truck Crane, Hydraulic 91-100t	hr	0.22	1.3%	2.6%	95.9%	53.8%	46.2%	5,050.00	28.89	10,363.91	1,066.45	597.26	615.74	1,111.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%		0.00	8.93	14.89	12.41	12.41	24.82
	Total									146.81	38.82	1,080.34	609.68	636.29	1,265.98
	Components (%)									11.6%	3.1%	85.3%	48.2%	51.8%	100.0%
	Unit Rate	t								17.27	38.94	1,080.34	611.62	658.39	1,270.00

Miscellaneous covers the cost for generator, fuel, etc.

$$y = G / (0.038 \cdot a \cdot (G \cdot 23))$$

γ : Work capacity

26.82 t/day

G : Assembled weight

a : coefficient

1104.0 t

1.00

W0502 Erection of Structural Steel Bridge Members

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	213.12	0.00	0.00	0.00	213.12	213.12
L019	Skilled Labor	md	2.25	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	922.50	0.00	0.00	0.00	922.50	922.50
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	118.40	0.00	0.00	0.00	118.40	118.40
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	162.11	250.98	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	337.71	506.56	422.14	422.14	844.27
	Total									1,416.13	618.69	10,870.48	6,243.89	6,421.14	12,905.29
	Components (%)									11.0%	4.8%	84.2%	48.5%	61.7%	100.0%
	Unit Rate	t								141.55	1,086.50	622.93	667.07	1,290.00	

W0504 Finish Painting of Structural Steel Bridge Members

W0504 Finish Painting of Structural Steel Bridge Members										Unit: 100.00 m2									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)				
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	576.00			
L010	Painter	md	9.80	100.0%	0.0%	0.0%	0.0%	100.0%	446.00	4,300.80	0.00	0.00	0.00	0.00	4,300.80	4,300.80			
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	228.00	410.00	0.00	0.00	0.00	0.00	410.00	410.00			
M06220	Silicon Alkyd Resin Paint for Steel	kg	12.36	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	3,090.00	0.00	0.00	2,008.50	1,081.50	3,090.00	Loss 3.0%		
M06220	Silicon Alkyd 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	991.38	2,832.50	Loss 3.0%			
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	0.00	521.02	1,215.72	955.21	781.54	1,736.75	15.0%			
Total										5,655.80	6,413.32	1,215.72	4,804.83	3,810.21	13,915.05				
Components (%)										42.5%	48.4%	9.1%	35.1%	63.9%	100.0%				
Unit Rate										56.45	64.35	12.14	47.99	55.91	139.00				
Miscellaneous covers the cost for falseworks, thinner, spray guns, brushes and other minor materials and tools.																			
Paint volume (middle coat) = 0.120 kg/m2																			
Paint volume (finish coat) = 0.110 kg/m2																			

W0505 Temporary Bent for Steel Bridge Erection

W0505 Temporary Bent for Steel Bridge Erection										Unit: 1.00 t						Remarks
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount						
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20	115.20	Loss 2.0%
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00	
M05041	Temporary Steel Shoes Demolition	t-d	444.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	9.68	11.76	151.46	89.84	83.08	172.90	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	0.83	2.9%	77.5%	19.6%	58.2%	43.8%	1,360.00	21.14	558.30	141.36	405.13	315.67	720.80	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.52	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	21.22	0.22	89.84	48.15	63.13	111.28	
W0236	Concrete Curing (plain concrete)	m3	0.52	70.9%	8.7%	20.4%	18.0%	84.0%	9.02	3.33	0.41	0.95	0.75	3.94	4.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	0.00	45.81	139.83	279.67	233.08	233.08	466.11	
	Total									732.18	14,607.72	663.28	7,723.53	8,272.65	16,003.16	
	Components (%)									4.6%	91.3%	1%	48.3%	51.7%	100.0%	
	Unit Rate									732.03	14,604.82	663.15	7,723.99	8,276.01	16,000.00	
Miscellaneous covers the cost for preparation of foundation bed, maintenance, etc.																
D = 0.22 * T + 1.4 Depreciation period = 444 days																
T : Required days = 123.87 days Base Concrete = 288.00 m3																
T : Total weight of bent = 558.70 t																

W0506 Site Welding for Steel Bridges

W0504 Site Welding for Steel Bridge										Unit: 10.00 m									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Loca.		Labor	Material	Equipment	Foreign	Loca.					
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	0.00	864.00	864.00			
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1,527.00	0.00	0.00	0.00	0.00	1,527.00	1,527.00			
L019	Skilled Labor	md	11.98	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,911.80	0.00	0.00	0.00	0.00	4,911.80	4,911.80			
R0901-050	Welding Machine 500A	day	2.10	0.0%	80.4%	39.6%	60.8%	39.4%	1,470.00	0.00	1,884.85	1,222.45	1,871.85	1,215.15	3,087.00	3,087.00			
R1001-150	Generator 101-150 kw	day	3.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	8,653.26	5,176.74	6,492.82	4,337.49	10,830.00	10,830.00			
R1002-160	Air Compressor 126-160 cfm (3.8-4.56/min)	day	3.00	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,743.06	4,526.94	3,588.45	2,891.55	6,270.00	6,270.00			
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	59.0%	50.0%		115.45	1,539.43	2,193.69	1,924.29	1,924.29	3,848.57	14.0%			
	Total									7,418.26	10,800.30	13,119.82	13,877.11	17,461.26	31,358.37				
	Components (%)									23.7%	31.5%	41.9%	44.3%	55.7%	100.0%				
	Unit Rate	m								740.92	1,078.71	1,310.38	1,386.01	1,743.99	3,130.00				

W0521 Precast PC Girder Fabrication Base Construction & Removal

W0521 Precast PC Girder Fabrication Base Construction & Removal											Unit: 5.00 girder							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks			
				Component (%)						Component (PP)								
				Labor	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	4.44	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	2,557.44	0.00	0.00	0.00	0.00	2,557.44	2,557.44		
L019	Skilled Labor	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	41.00	0.00	0.00	0.00	0.00	0.00	41.00		
L019	Skilled Labor	md	16.28	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,674.80	0.00	0.00	0.00	0.00	6,674.80	6,674.80		
L020	Unskilled Labor	md	26.84	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	8,584.80	0.00	0.00	0.00	0.00	8,584.80	8,584.80		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	2,752.34	2,752.34	3,027.58	2,477.11	5,504.68	5,504.68	31.0%	
Total										17,757.04	2,752.34	2,752.34	3,027.58	20,234.15	23,261.72			
Components (%)										76.38	11.88	11.88	13.08	87.08	100.00			
Unit Rate										3,549.62	550.19	550.19	505.21	4,044.79	4,650.00			
Miscellaneous covers the cost for lumber, plywood, nail, etc.																		
Total number of girders =				5					Maximum Girder Length = 36.000 m					Number of bases = 2				

W0522 Precast PC Girder Fabrication Base Maintenance

#0522 Precast PC Girder Fabrication Base Maintenance										Unit: 1.00 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)				
L005	Carpenter	md	0.74	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	333.74	0.00	0.00	0.00	0.00	333.74				
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	118.40	0.00	0.00	0.00	0.00	118.40				
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
Total																			
Components (%)																			
Unit Rate																			
Base Length = 37.00 m																			

W0535 PC Strand (8-T12.7, 60t) Installation for Precast PC Girder

W0935 PC Strand (8-T12.7, 506) Installation for Precast PC Girder										Unit: 100.00 m									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)			
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60				
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,829.00	0.00	0.00	0.00	2,829.00	2,829.00				
L020	Unskilled Labor	md	6.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,856.00	0.00	0.00	0.00	1,856.00	1,856.00				
M09306	PC Strand, T12.7	kg	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	74,167.65	Loss 6.0%			
M09331	PC Sheath, #60	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	115.00	0.00	12,075.00	0.00	7,848.76	4,226.25	12,075.00	Loss 5.0%			
W0225	Grout (non-shrink)	m3	0.23	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	8.81	676.58	18.11	429.75	271.75	701.60				
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	740.41	185.10	509.00	416.48	925.51	1.0%			
Total										5,613.41	87,659.53	203.21	60,704.82	32,771.34	93,476.16				
Components (%)										8.0%	93.8%	0.2%	64.9%	35.1%	100.0%				
Unit Rate										56.16	876.82	2.03	607.20	327.80	935.00				

W0538 PC Strand (1-T16.2, 30t) Installation for Precast PC Deck Slab										Unit: 100.00 m									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	Loss 8.0% Loss 6.0%			
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	861.00	0.00	0.00	0.00	861.00	861.00				
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00				
M09307	PC Strand, 116.2	kg	116.71	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	13,888.49	0.00	9,721.94	4,166.55	13,888.49				
M09322	PC Sheath, 28	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	82.20	0.00	5,533.20	0.00	3,596.58	1,936.62	5,533.20				
M0226	Grout (non-shrink)	m3	0.05	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	1.48	147.09	3.94	93.42	59.08	152.50	1.0%			
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	170.85	42.74	117.53	96.16	213.70				
Total Components (%)										1,796.84	19,739.73	46.68	13,529.46	8,553.81	21,553.29				
Unit Rate										17.98	197.55	0.47	135.40	89.60	215.00				

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

W0545 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					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,132.00	0.00	0.00	0.00	2,132.00	2,132.00	
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,408.00	0.00	0.00	0.00	1,408.00	1,408.00	
M09345	PC Anchorage, 130, 150t 8T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00	0.00	57,900.00	0.00	43,426.00	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 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	2.0%
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	2,284.61	571.15	1,570.67	1,285.95	2,855.76	
	Total										4,404.00	139,684.61	1,555.15	105,164.82	40,468.94	
Components (%)										3.0%	95.9%	1.1%	72.2%	27.8%	100.0%	
Unit Rate										441.48	14,002.63	155.90	10,516.20	4,058.80	14,600.00	

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

W0546 PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder										Unit: 10.00 cable									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60				
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,296.00	0.00	0.00	0.00	2,296.00	2,296.00				
L020	Unskilled Labor	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,536.00	0.00	0.00	0.00	1,536.00	1,536.00				
M09346	PC Anchorage 195, 225t 12T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00				
M09365	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	105,000.00	0.00	79,500.00	26,500.00	105,000.00				
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.60	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,049.60	569.77	479.83	1,049.60	2.0%			
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,075.25	768.81	2,114.24	1,729.83	3,844.06				
Total										4,753.60	189,475.25	1,818.41	142,484.00	53,563.20	196,047.20				
Component (%)										2.4%	96.6%	0.9%	72.3%	27.3%	100.0%				
Unit Rate										475.36	18,947.96	181.80	14,244.96	5,355.04	19,600.00				

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

W0547 PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder										Unit: 10.00 cable									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	979.20	0.00	0.00	0.00	979.20	979.20				
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,296.00	0.00	0.00	0.00	2,296.00	2,296.00				
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00				
M09346	PC Anchorage 195, 225t 12T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00				
M09365	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	105,000.00	0.00	79,500.00	26,500.00	105,000.00				
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.70	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,115.20	605.38	609.82	1,115.20	2.0%			
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,079.27	789.82	2,117.00	1,732.09	3,849.09				
Total										4,939.20	189,479.27	1,855.02	142,522.37	53,781.11	196,303.49				
Components (%)										2.5%	96.5%	1.0%	72.6%	27.4%	100.0%				
Unit Rate										493.92	18,948.63	185.21	14,230.20	5,369.80	19,600.00				

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

W0548 PC Strand (1-T16.2, 30t) Tensioning for Precast PC Deck Slab										Unit: 10.00 cable									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40				
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	533.00	0.00	0.00	0.00	533.00	533.00				
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	256.00	256.00				
M09348	PC Anchorage 30t (T16.2 (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				
M09369	PC Anchorage 30t (T16.2 (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				
M09369	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.40	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	262.40	142.44	119.96	262.40	2.0%			
R1007-002	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	324.19	81.05	222.88	182.36	405.24				
Total										1,019.40	19,304.19	343.45	14,600.32	5,068.71	20,667.01				
Components (%)										4.9%	93.4%	1.7%	70.6%	29.4%	100.0%				
Unit Rate										102.10	1,933.50	34.40	1,462.36	507.64	2,070.00				

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

W0549 Secondary Concrete for Precast PC Deck Slab										Unit: 10.00 m3									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	0.00	115.20	115.20			
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	418.00	0.00	0.00	0.00	0.00	0.00	0.00	328.00			
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	328.00	328.00	0.00	0.00	0.00	0.00	328.00	328.00			
W0206	Concrete (Class A2, 28MPa, max ave. 20mm)	m3	10.20	2.1%	84.3%	13.6%	57.9%	42.1%	1,820.00	389.70	15,845.98	2,528.32	10,757.69	7,806.31	18,564.00	Loss 2.0%			
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.54	7.0%	7.7%	85.3%	51.8%	48.5%	1,070.00	115.35	126.88	1,405.87	847.83	799.97	1,847.80				
	Miscellaneous	L\$	1.00							0.00	0.00	0.00	0.00	0.00	0.00				
	Total									1,268.25	15,772.86	3,933.89	11,805.52	9,366.45	20,976.75				
	Component (%)									8.0%	75.2%	18.8%	55.3%	44.7%					
	Unit Rate	m3								128.98	1,579.17	393.88	1,161.94	938.60	2,100.00				

W0553 Precast PC Girder Erection (16.0 ≤ W < 17.5t)

Unit: 100.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 7t-80t	hr	5.71	2.4%	4.2%	93.4%	83.5%	46.5%	3,080.00	422.08	738.65	16,428.07	9,409.51	8,177.29	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,738.08	738.65	16,428.07	9,409.51	12,493.29	21,902.80
Components (%)										21.6%	3.4%	75.0%	43.0%	57.0%	100.0%
Unit Rate										47.37	7.39	164.24	94.08	124.92	219.05
Work Capacity				= 100 t/day											

W0554 Precast PC Girder Erection (17.5 ≤ W < 20t)

Unit: 110.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 7t-80t	hr	5.71	2.4%	4.2%	93.4%	83.5%	46.5%	3,080.00	422.08	738.65	16,428.07	9,409.51	8,177.29	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										4,738.08	738.65	16,428.07	9,409.51	12,493.29	21,902.80
Components (%)										21.6%	3.4%	75.0%	43.0%	57.0%	100.0%
Unit Rate										43.05	6.71	149.24	85.49	113.51	199.00
Work Capacity				= 110 t/day											

W0555 Precast PC Girder Erection (20.0 ≤ W < 25.0 t)

Unit: 190.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-080	Truck Crane, Hydraulic 7t-80t	hr	11.42	2.4%	4.2%	93.4%	83.5%	46.5%	3,080.00	844.17	1,477.29	32,852.14	18,819.03	16,354.57	35,173.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										5,330.32	1,477.29	32,852.14	18,819.03	21,810.57	40,629.60
Components (%)										15.5%	3.6%	80.9%	46.3%	53.7%	100.0%
Unit Rate										33.18	7.78	173.94	99.12	114.86	214.00
Work Capacity				= 190 t/day											

W0556 Precast PC Girder Erection (25.0 ≤ W < 30.0 t)

Unit: 225.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-120	Truck Crane, Hydraulic 10t-120t	hr	11.42	1.1%	1.9%	97.0%	83.9%	46.1%	8,960.00	874.32	1,610.18	77,098.70	42,853.75	38,629.45	79,483.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,330.32	1,610.18	77,098.70	42,853.75	42,085.45	84,939.20
Components (%)										7.8%	1.6%	90.8%	50.5%	49.5%	100.0%
Unit Rate										28.17	5.72	343.11	190.71	187.29	378.00
Work Capacity				= 225 t/day											

W0557 Precast PC Girder Erection (30.0 ≤ W < 35.0 t)

Unit: 235.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-140	Truck Crane, Hydraulic 12t-140t	hr	11.42	0.9%	1.9%	97.2%	84.0%	46.0%	8,240.00	846.91	1,787.92	91,465.98	50,842.72	43,258.08	94,100.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,302.91	1,787.92	91,465.98	50,842.72	43,714.59	99,556.80
Components (%)										6.3%	1.8%	91.9%	51.1%	48.9%	100.0%
Unit Rate										26.84	7.61	389.54	216.53	207.47	424.00
Work Capacity				= 235 t/day											

W0558 Precast PC Girder Erection (35.0 ≤ W < 40.0 t)

Unit: 250.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-160	Truck Crane, Hydraulic 14t-160t	hr	11.42	0.8%	1.9%	97.3%	84.0%	46.0%	8,960.00	818.59	1,944.14	99,560.47	55,294.14	47,029.05	102,323.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										6,274.59	1,944.14	99,560.47	55,294.14	52,485.08	107,779.20
Components (%)										5.8%	1.8%	92.4%	51.3%	48.7%	100.0%
Unit Rate										25.09	7.77	399.13	221.12	209.89	431.00
Work Capacity				= 250 t/day											

W0601 Pier Protection Concrete Block Type A Production & Laying

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0203	Concrete (Class A, 21Mpa, max size 38mm)	m3	10.73	2.5%	81.5%	16.1%	56.6%	43.2%	1,590.00	418.88	13,902.59	2,739.23	9,691.82	7,368.88	17,060.70	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.52	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	428.02	5.32	2,280.82	1,222.30	1,491.86	2,714.16	
W0237	Concrete Curing (reinforced concrete)	m3	10.52	74.6%	7.6%	17.8%	14.0%	88.0%	4.29	33.68	3.44	8.02	6.30	38.83	45.13	
W0261	Reinforcement Grade 40, cutting, bending & assembly	kg	262.60	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	947.14	4,718.83	479.06	3,309.03	2,835.81	6,144.84	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.80	8.5%	8.3%	83.2%	50.6%	49.6%	881.00	119.82	117.00	1,172.79	712.39	697.21	1,409.80	
	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	808.40	0.00	0.00	0.00	808.40	808.40	
	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00	
	Miscellaneous	LS	1.00	0.0%			50.0%	55.0%	45.00	0.00	298.45	298.45	328.29	268.60	596.90	2.0%
	Total									4,417.94	19,045.42	6,978.37	15,210.13	15,171.60	30,441.73	
	Components (%)									14.5%	82.6%	22.9%	50.2%	49.8%	100.0%	
	Unit Rate	each								441.19	1,901.93	656.88	1,524.92	1,515.08	3,040.00	
	Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.									Concrete = 1.052 m3/each						

W0603 Pier Protection Concrete Block Type C Production & Laying

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 avg. 38mm)	m3	10.09	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	393.90	13,073.36	2,575.85	9,113.74	6,929.36	16,043.10	Loss 2.0%	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	402.39	5.00	2,144.23	1,149.10	1,402.52	2,551.62		
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.28	31.66	3.23	7.54	5.92	30.51	42.43		
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.4%	76.8%	7.8%	53.9%	48.1%	23.40	854.45	4,256.83	432.18	2,985.18	2,558.28	5,543.46		
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.5%	8.3%	63.2%	50.6%	49.5%	881.00	119.82	117.00	1,172.79	712.39	697.21	1,409.60		
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40		
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	280.61	280.61	308.67	252.55	561.21	2.0%	
Total										4,272.61	17,736.02	6,613.19	14,275.00	14,345.82	28,621.82		
Components (%)										14.9%	62.0%	23.1%	49.9%	50.1%	100.0%		
Unit Rate										428.81	1,772.60	660.81	1,426.41	1,433.59	2,860.00		
Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.										Concrete = 0.989 m3/each							

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

Concrete =

0.989 m3/each

W0611 Stone Laying

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%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	192.00	0.00	0.00	0.00	192.00	192.00	
W0129	Gravel/Stone, transported	m3	113.00	11.8%	18.6%	69.5%	44.8%	55.2%	197.00	2,637.48	4,149.20	15,474.31	9,978.51	12,282.49	22,261.49	
R0102-061	Backhoe, hydraulic, crawler, 0.6m3	hr	8.70	4.5%	8.4%	87.1%	52.0%	47.1%	1,740.00	681.21	1,271.59	13,185.20	8,004.77	7,133.23	15,138.00	Loss 13.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	5.0%	6.8%	87.6%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total										3,798.69	5,420.80	28,659.61	17,983.28	19,895.72	37,879.00	
Components (%)										10.0%	14.3%	75.7%	47.5%	52.5%	100.0%	
Unit Rate										36.01	54.24	256.75	179.93	199.07	379.00	

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.

W0651 Temporary Support at Pier Head for Cantilever Construction

P0551 Temporary Support at Pier Head for Cantilever Construction										Unit:		10.00 v-m3		P0551		
Item No.	Description	Unit	Quantity	Unit Rate					Amount							Remarks
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	180.40	0.00	0.00	0.00	180.40	180.40	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	533.00	0.00	0.00	0.00	533.00	533.00	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W0442	Temporary Frame Support Depreciation	m3-d	740.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	543.00	20.68	281.94	281.94	563.88	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.8%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.35	164.65	1,992.29	1,181.76	1,092.64	2,274.30	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	68.77	25.19	41.99	41.99	83.96	2.0%
Total										1,487.16	756.42	2,038.36	1,505.68	2,776.28	4,281.94	
Components (%)										34.7%	17.7%	47.6%	35.2%	64.8%	100.0%	
Unit Rate										148.65	75.61	203.74	150.50	277.50	428.00	

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.

Provided days = 74.0 days

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction										Unit: 1.00						
Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks	
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	90.20	0.00	0.00	0.00	90.20	90.20	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	984.00	0.00	0.00	0.00	984.00	984.00	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	512.00	0.00	0.00	0.00	512.00	512.00	
W05041	Temporary Steel Shabos Depreciation	m-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%	87.6%	52.0%	48.0%	1,330.00	127.35	164.65	1,992.29	1,181.76	1,092.54	2,274.30	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,031.54	442.09	736.82	1,473.63	23.0%	
Total										1,943.96	3,502.40	2,434.38	3,076.58	4,804.05	7,880.73	
Components (%)										24.7%	44.4%	30.9%	39.0%	61.0%	100.0%	
Unit Rate										1,943.78	3,502.07	2,434.15	3,076.39	4,803.61	7,880.00	

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

0653 Temporary External & Internal Support at Pier Head for Cantilever Construction										Unit:		10.00 v-m3				
Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat	Equip	For	Local	Total (PP)	Labor	Material	Equipment (PP)	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	45.10	0.00	0.00	0.00	45.10	45.10	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00	
W0442	Temporary Frame Support Depreciation	m3-d	570.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	418.25	16.09	217.17	217.17	434.34	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.87	5.8%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.48	51.55	664.10	393.92	364.18	758.10	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	46.48	19.92	33.20	33.20	69.61	4.0%
Total										510.15	516.29	700.10	644.29	1,092.25	1,726.53	
Components (%)										29.5%	29.9%	40.6%	37.3%	62.7%	100.0%	
Unit Rate										51.12	51.73	70.15	64.56	109.44	173.00	

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

R0454 Temporary Suspension Support at Center Connection for Cantilever Construction										Unit: 1.00 t		R0454				
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local	Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40	230.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	90.20	0.00	0.00	0.00	90.20	90.20	
L019	Skilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,066.00	0.00	0.00	0.00	1,066.00	1,066.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
M06041	Temporary Steel Shapes Depreciation	t-d	31.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	970.30	0.00	485.15	485.15	970.30	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	6.8%	87.6%	82.0%	48.0%	1,330.00	213.01	258.66	3,332.19	1,976.51	1,827.29	3,803.80	
	Wigglings	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,269.06	518.43	864.05	864.05	1,728.29	28.0%
										2,063.41	2,438.82	3,325.71	3,325.71	5,046.82	5,374.29	
										24.9%	99.1%	40.4%	39.7%	60.3%	100.0%	
										2,084.27	2,437.28	3,323.89	3,323.89	5,046.11	8,370.90	

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

W0557	Temporary External & Internal Support at Side Span for Cantilever Construction										Unit: 10.00 v-m3									
Item No.	Description	Unit	Quantity	Unit Rate					Amount										Remarks	
				Component (%)					Total (PP)	Component (PP)										
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)					
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60					
L005	Carometer	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	45.10	0.00	0.00	0.00	45.10	45.10					
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	205.00	0.00	0.00	0.00	205.00	205.00					
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00					
W0442	Temporary Frame Support Depreciation	m3-d	530.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	388.90	14.06	201.93	201.93	403.86					
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10					
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	60.0%	50.0%		0.00	45.63	19.66	32.89	32.89	65.19					
	Total									510.15	486.08	698.61	828.44	1,066.40	1,694.85					
	Components (%)									30.1%	28.7%	41.2%	37.1%	62.9%	100.0%					
	Unit Rate									50.87	48.47	69.66	62.66	106.34	169.00					
	Miscellaneous covers the cost for lumber, brackets, embedded steel, bolts, etc.																			
	Provided days = 53.0 days																			

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

W0661 Assembly & Disassembly of Form Traveler

R0681 Assembly & Disassembly of Form Traveler										Unit: 1.00 set									
Item No	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount						Remarks			
				Lab	Mat	Equip	For	Local		Labor	Material	Component (PP)	Equipment	Foreign	Local		Total (PP)		
L002	Foreman	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	8,524.80	0.00	0.00	0.00	8,524.80	8,524.80				
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	37,310.00	0.00	0.00	0.00	37,310.00	37,310.00				
L020	Unskilled Labor	md	88.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	27,456.00	0.00	0.00	0.00	27,456.00	27,456.00				
R0402-045	Truck Crane, Hydraulic 41-45t	hr	85.65	3.4%	5.0%	91.6%	53.1%	45.9%	2,240.00	6,523.10	9,892.80	175,740.10	101,824.89	90,031.11	191,858.00				
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	60.0%	50.0%				79,813.90	59,705.55	197,216.92	137,619.71	27.0%			
	Total											23.7%	17.7%	88.6%	40.9%	59.1%			
Components (%)																			
Unit Rate				set						79,876.37	59,752.28	197,371.35	137,721.43	199,272.57	327,000.00				

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

W0662 Form Traveler Shifting

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreman	Local		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L019	Skilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	574.00	0.00	0.00	0.00	574.00	574.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	50.0%	50.0%		0.00	270.28	180.19	225.23	225.23	450.47	27.0%
	Total									1,669.40	270.28	180.19	225.23	1,894.65	2,118.87	
	Components (%)									79.7%	12.8%	8.5%	10.6%	89.4%	100.0%	
	Unit Rate									1,669.29	270.43	180.28	225.35	1,894.65	2,120.00	

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

W0663 Form Traveler Lifting

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%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	5.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,255.00	0.00	0.00	0.00	2,255.00	2,255.00	
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,240.00	0.00	0.00	0.00	2,240.00	2,240.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									5,071.00	0.00	0.00	0.00	5,071.00	5,071.00	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate									5,070.00	0.00	0.00	0.00	5,070.00	5,070.00	

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

W0664 Form Traveler Pulling Back

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384.00	0.00	0.00	0.00	384.00	384.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,164.00	0.00	0.00	0.00	1,164.00	1,164.00
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	Unit Rate	m								116.40	0.00	0.00	0.00	116.40	116.40

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	2,534.40	0.00	0.00	0.00	2,534.40	2,534.40	
L019	Skilled Labor	md	23.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	9,553.00	0.00	0.00	0.00	9,553.00	9,553.00	
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,536.00	0.00	0.00	0.00	5,536.00	5,536.00	
N09305	PC Strand, T12.7	kg	1,050.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,846.00	35,934.00	119,780.00	Loss 6.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	255.47	310.21	3,996.22	2,370.43	2,191.47	4,561.90	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	9,085.78	2,271.44	6,246.47	5,110.75	11,357.22	8.0%
	Total									17,879.87	129,175.99	6,267.67	92,462.91	60,850.62	153,322.52	
	Components (%)									11.7%	84.3%	4.1%	60.3%	39.7%	100.0%	
	Unit Rate									17,841.28	128,904.28	6,254.48	92,269.41	60,731.89	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)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,230.00	0.00	0.00	0.00	1,230.00	1,230.00	
N09306	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,800.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	55.0%	45.0%		0.00	12,857.60	8,578.40	11,795.30	9,850.70	21,446.00	
	Total									1,230.00	118,857.60	8,578.40	91,295.30	37,350.70	128,676.00	
	Components (%)									1.0%	92.4%	6.7%	70.9%	29.1%	100.0%	
	Unit Rate									123.31	11,918.59	850.00	9,152.52	3,747.46	12,900.00	
	Miscellaneous covers the cost forms, groud hose, tape, etc.															

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

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

Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L019	Skilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,567.00	0.00	0.00	0.00	3,567.00	3,567.00	
L020	Unskilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,696.00	0.00	0.00	0.00	1,696.00	1,696.00	
M09348	PC Anchorbase 195,225: 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	
R1007-002	Power Unit (jack), hydraulic, HP-2, mono can, 7-9	day	1.60	0.0%	0.0%	100.0%	64.3%	45.7%	666.00	0.00	0.00	984.00	534.15	449.85	984.00	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11- 6.1753/min)	day	1.50	0.0%	3.2%	96.8%	64.3%	45.3%	568.00	0.00	27.26	824.74	468.02	386.98	852.00	
R0710-000	Grout Pump	day	1.50	0.0%	0.0%	100.0%	64.3%	45.7%	1,280.00	0.00	0.00	1,920.00	1,042.50	877.20	1,920.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	80.0%	49.0%	55.0%	45.0%	0.00	3,250.19	2,168.79	2,879.34	2,437.84	5,416.98	6.0%
	Total									6,127.00	83,677.45	6,895.53	65,322.32	30,377.65	95,699.98	
	Components (%)									6.4%	87.4%	6.2%	68.3%	31.7%	100.0%	
	Unit Rate	each								612.70	8,367.75	589.65	6,532.23	3,037.77	9,570.00	

W0677 PC Cable Anchorage, (S-T12.7, 90t) for PC Box Girder (Transversal)

Unit: 10.00 each

[illegible]

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

W0678 PC Cable Tensioning, (5-T(2.7, 90t) for PC Box Girder (Transversal)

Unit: 10.00 each

Unit Rate										Amount						Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lmb	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	633.60	0.00	0.00	0.00	633.60	633.60	
L019	Skilled Labor	md	5.03	100.0%	0.0%	0.0%	0.0%	100.0%	410.94	2,950.30	0.00	0.00	0.00	2,950.30	2,950.06	
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	325.00	672.00	0.00	0.00	0.00	672.00	672.00	
M09343	PC Sheath, 2.75	m	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	165.00	0.00	1,500.00	0.00	0.00	975.00	825.00	1,500.00
R1007-002	Power Unit (Jack), hydraulic, HP=2, pump cap. 1-9	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	856.00	0.00	0.00	721.60	391.71	329.89	721.60	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.1m3/min)	day	1.10	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	19.99	804.81	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	LVS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	410.94	273.95	376.70	309.21	584.93	9.0%
	Total									3,355.60	1,930.93	3,005.37	2,849.68	5,416.92	8,294.62	
	Components (%)									40.5%	23.3%	36.3%	34.4%	65.6%	100.0%	
	Unit Rate	each								335.36	192.98	300.66	284.92	544.18	829.00	

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

W068] PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Transversal)

Unit: ... \$.00 c

[illegible]

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

W0892 PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Transverse)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	nd set	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	
M09374	PC Anchorage 632 (F)	10.00	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	1.00	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,602.00	1,377.29	1,126.89	5,126.89	16.0%
	Total									451.00	16,782.00	1,001.69	12,777.29	5,126.89	
	Components (%)									2.5%	92.0%	5.5%	70.4%	23.6%	100.0%
	Unit Rate	each								45.21	1,674.37	100.41	1,280.88	539.12	1,820.00

Miscellaneous covers the cost forms, grout hose, tape, etc.			
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W0693 PC Bar Tensioning, ($\phi 32\text{mm}$) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local		
L002	Foreman	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	578.00	460.80	0.00	0.00	0.00	460.80	460.80
L019	Skilled Labor	nd	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,888.80	0.00	0.00	0.00	1,888.00	1,888.00
L020	Unskilled Labor	nd	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	640.00	640.00	0.00	0.00	0.00	640.00	640.00
M09364	PC Anchorage 6-32 (T)	set	10.50	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00
R1007-002	Power Unit (Jack), hydraulic, HP=2, pump cab. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	858.00	0.00	0.00	524.88	284.88	239.92	524.88
R0711-005	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%	588.00	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	558.16	467.84	1,024.00
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	55.0%	45.0%	0.00	0.00	314.82	809.88	289.89	236.12	524.70
	Total Components (%)								2,996.80	12,829.60	2,163.54	10,763.17	7,265.17	18,014.70	3.0%
	Unit Rate	each							16.8%	51.2%	12.2%	59.7%	40.3%	100.0%	
									298.44	1,291.82	219.67	1,074.44	725.56	1,900.00	

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

W0688 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)						
				Labor	Mat.	Equip.	Fuel	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	821.60	0.00	0.00	0.60	3,221.60		
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	41.00	5,578.00	0.00	0.00	0.00	5,578.00		
L020	Unskilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,400.00	0.00	0.00	2,400.00	2,400.00		
M09313	PC Jendani. 432	kg	1,000.00	0.0%	100.0%	0.0%	0.0%	70.0%	138.00	0.00	136,000.00	0.00	95,200.00	40,800.00	136,000.00	
R0402-025	Truck Crane Hydraulic 21-25t	hr	8.26	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	213.01	258.66	3,332.13	1,976.51	1,827.29	3,803.80	
	Miscellaneous	LS	1.80	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	7,137.67	1,784.42	4,907.16	4,014.94	8,922.06	6.0%
	Total Components (%)									9,116.53	143,308.32	5,118.55	102,069.56	55,552.48	157,623.46	
	Unit Rate									5.8%	91.0%	3.2%	84.8%	35.2%	100.0%	
										9,132.38	143,739.80	5,128.77	102,327.51	55,672.49	158,000.00	

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

W0887 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					Total (PP)	Remarks
				Component (%)						Component (%)						
				Lab.	Mat.	Equip.	Fov.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
M09374	VC Anchorage & 32 (F)	each	10.00	0.0%	100.0%	0.0%	0.0%	15.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00	
	Miscellaneous	LS	1.5	0.0%	80.0%	40.0%	55.0%	25.0%	410.00	0.00	1,500.00	1,000.00	1,100.00	1,100.00	2,500.00	16.0%
	Total									451.00	16,700.00	1,000.00	12,772.00	6,377.87	16,155.16	
	Components (%)									2.5%	92.0%	5.5%	70.4%	29.6%	100.0%	
	Unit Rate	each								45.21	1,674.37	100.41	1,280.88	599.12	1,620.00	

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					Amount					Remarks	
				Component (%)				Total (PP)	Component (PP)				Total (PP)		
				Lab.	Mat.	Equip.	For.		Local	Labor	Material	Equipment			Foreign
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	578.00	460.80	0.00	0.00	460.80	460.80	
L001	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,680.00	0.00	0.00	1,680.00	1,680.00	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	640.00	0.00	0.00	640.00	640.00	
M09354	PC Anchorbar 432 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,376.00	3,125.00	12,500.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cab. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	524.80	239.92	524.80	
R0711-006	Concrete Mixer 4-8 ft3/min (0.11-0.17m3/min)	day	0.80	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	14.64	439.86	248.54	205.86	464.40	
R0710-000	Grout Pump	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	1,024.00	555.16	467.84	1,024.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	314.32	229.88	785.30	236.12	574.70	3.0%
	Total								2,966.80	12,822.36	2,198.54	10,753.17	7,261.63	18,014.70	
	Components (%)								16.5%	71.2%	12.2%	59.7%	40.3%	100.0%	
	Unit Rate	each							298.44	1,281.69	219.07	1,074.44	725.58	1,800.00	

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

W0701 Precast Concrete Cover (580x480x70), furnish										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	1.76	2.3%	83.2%	14.5%	57.0%	43.0%	1,680.00	66.98	2,460.16	429.68	1,686.64	1,270.16	2,956.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.73	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	70.39	0.88	375.08	201.01	245.33	446.34	
W0237	Concrete Curing (reinforced concrete)	m3	1.73	14.5%	7.6%	17.8%	14.0%	86.0%	4.29	5.64	0.56	1.32	1.04	6.38	7.42	Loss 2.0%
W02001	Reinforcing Bars, Grade 40	kg	305.40	0.0%	100.0%	0.0%	65.0%	35.0%	18.00	0.00	4,886.40	0.00	3,176.16	1,710.24	4,886.40	
W02011	Structural Steel (Round Bar, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,271.56	0.00	1,590.09	681.47	2,271.56	Loss 2.0%
W02014	Structural Steel (Shanes, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	676.84	0.00	473.09	202.75	676.84	
R0601-003	Pump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.14	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	8.57	12.02	41.99	30.59	31.99	62.58	3.0%
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%		0.00	271.37	87.84	169.60	169.60	339.21	
	Total									151.48	10,678.78	915.89	7,328.22	4,317.93	11,616.15	
	Components (%)									1.3%	90.8%	7.9%	62.9%	37.1%	100.0%	
	Unit Rate	each								1.51	105.37	9.12	72.95	43.01	116.00	

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

W0702 Precast Concrete Cover (580x480x70), installation										Unit: 100.00 each						
Item No	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	12.0%
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	11.29	101.61	56.45	56.45	112.90	
	Total									940.80	11.29	101.61	56.45	56.45	1,053.70	
	Component (%)									89.3%	1.1%	9.0%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.38	0.11	1.01	0.56	0.56	10.50	

Miscellaneous covers the cost for cert, etc.

W0703 Precast Concrete Cover (680x580x75), furnish										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	(PP)	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	3.02	2.3%	83.2%	14.5%	57.0%	43.0%	1,680.00	114.93	4,221.41	737.25	2,894.12	2,119.48	5,073.60	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.96	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	661.65	1.32	11.91	7.28	667.60	674.88	
W0237	Concrete Curing (reinforced concrete)	m3	2.96	14.5%	7.6%	17.8%	14.0%	86.0%	4.29	9.48	0.97	2.26	1.77	10.93	12.70	Loss 2.0%
W02001	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	18.00	0.00	9,716.80	0.00	6,315.92	3,400.88	9,716.80	
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	261.14	837.12	3.0%
W02014	Structural Steel (Shanes, 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	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.24	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	14.70	20.60	71.98	52.44	54.84	107.28	3.0%
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%		0.00	438.15	108.84	273.84	273.84	547.69	
	Total									800.75	17,070.29	922.84	11,415.11	7,388.68	18,803.92	
	Components (%)									4.3%	90.5%	5.0%	60.7%	39.3%	100.0%	
	Unit Rate	each								8.01	170.67	9.22	114.13	73.87	188.00	

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

W0704 Precast Concrete Cover (680x580x75), Installation										Unit: 100.00 each							
Item No	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	0.00	172.80	172.80	12.0%
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	112.90	56.45	56.45	112.90		
	Total									940.80	0.00	112.90	56.45	56.45	1,053.70		
	Components (%)									89.3%	0.0%	10.7%	5.4%	94.6%	100.0%		
	Unit Rate	each								9.38	0.00	1.13	0.56	0.56	10.50		

Miscellaneous covers the cost for cert, etc.

W0711 Iron Step for Drop Inlet Manholes, furnish & installation										Unit: 100.00 each							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	0.00	416.00	416.00	
W02011	Structural Steel (Round Bar, SS400)	kg	226.80	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	4,946.42	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	86.72	348.68	216.80	216.80	433.60	433.60	8.0%
	Total									473.60	5,033.14	348.68	3,679.29	2,174.33	5,853.62		
	Components (%)																
	Unit Rate	each								4.73	50.30	3.47	36.77	21.73	58.50		

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

W0712 Iron Step for Special Junction Box Manholes, furnish & installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	8.0%
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
W02011	Structural Steel (Round Bar, SS400)	kg	209.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,569.28	0.00	3,198.50	1,370.78	4,569.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	80.89	322.74	201.72	201.72	403.43	
	Total									473.60	4,649.97	322.74	3,400.21	2,046.10	5,416.31	
	Components (%)									8.7%	85.4%	5.9%	62.4%	37.6%	100.0%	
	Unit Rate	each								4.74	46.53	3.23	34.03	20.47	54.50	

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

W0715 Steel Grate for Manhole Inlet, furnish & installation										Unit: 40.00 kg						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
M02001	Reinforcing Bars, Grade 40	kg	41.20	0.0%	100.0%	0.0%	65.0%	35.0%	18.00	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	9.06	81.55	45.31	45.31	90.62	8.0%
	Total									473.60	668.26	81.55	473.79	749.63	1,223.42	
	Components (%)									38.7%	54.6%	6.7%	39.7%	61.3%	100.0%	
	Unit Rate	kg								11.85	16.71	2.04	11.85	18.75	30.60	

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

W0721 Grating Cover for V-Ditch (W=300mm), furnish & installation											Unit: 10.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (P)	Amount					Remarks
				Component (A)						Component (P)					
				Lab.	Mat.	Equip.	For.	Loca.		Labor	Material	Equipment	Foreign	Local	
M002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	67.60	67.60
M009	Welder	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	661.70	0.00	0.00	0.00	661.70	661.70
M009	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M02014	Structural Steel (Shanes. S5400)	kg	206.60	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	3,634.40	0.00	2,544.08	1,090.32	3,634.40
M02012	Structural Steel (Flst Bar. S5400)	kg	269.20	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	6,110.84	0.00	4,277.69	1,833.25	6,110.84
M02001	Reinforcing Bars, Grade 40	kg	24.47	0.0%	100.0%	0.0%	65.0%	35.0%	18.00	0.00	391.82	0.00	254.49	137.03	391.82
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	111.76	111.76	111.76	111.76	223.52
	Total								1,039.30	0.00	4,248.52	111.76	7,187.92	4,399.66	11,396.58
	Component (S)								62.18	62.18	0.00	62.18	0.00	62.18	124.36
	Unit Rate	m2							103.93	1,024.89	11.18	718.82	421.18	1,490.00	

W0732 Granular Bedding for Rubble Concrete

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Max.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	0.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0122	Crushed Aggregate, transported	ms	12.00	9.2%	15.6%	75.3%	47.0%	53.0%	258.00	285.21	480.50	2,330.29	1,456.38	1,641.62	3,056.00	Loss 2.0%
	Miscellaneous	L3	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	16.69	62.72	39.23	39.24	78.46	2.0%
	Total Components (%)									1,112.21	496.19	2,393.06	1,493.61	2,807.83	4,001.40	
	Unit Rate	m3								27.54	39.41	39.86	31.81	62.24	100.24	
										111.18	49.60	239.22	149.31	250.69	400.00	

Miscellaneous covers the cost for compaction equipment, fuel, etc.	
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W0733 Washout Prevention Filter, furnish and layins

Unit: 10, 00 m²

Unit Rate										Amount					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	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	10.20	0.00	0.00	0.00	19.20	19.20	
M10202	Filter Cloth	mS	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	980.81	0.00	526.37	382.24	890.61	Loss 7.0%
	Miscellaneous	mS	1.00	0.0%	10.0%	50.0%	50.0%	40.0%		0.00	1.80	10.20	8.30	18.00	18.00	2.0%
	Total Components (%)									19.20	982.11	10.20	526.37	382.24	917.36	
	Unit Rate	m2								2.13	95.14	1.03	53.65	41.53	100.0%	
										88.26	1.82	53.65	39.05	81.90		

	Unit Rate	m2	
Miscellaneous covers the costs for minor tools, etc			

W074! Grouted Riprap Class A

Unit: 10.00 m3

Unit Rate										Amount					Unit		To 50 m		Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (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%	576.00	172.80	0.00	0.00	0.00	172.80		172.80			
L020	Unskilled Labor	m	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00		704.00			
W0129	Gravel/Stone, transported	m3	9.00	11.8%	18.6%	69.5%	44.8%	55.2%	197.00	210.07	330.47	1,232.47	794.75	978.25	1,773.00		Loss 20.0%		
W0221	Worter (1:3)	m3	2.53	1.7%	93.8%	4.8%	58.1%	41.9%	1,820.00	77.11	4,352.78	211.11	2,694.68	1,946.42	4,641.00		Loss 2.0%		
	Miscellaneous	L5	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	72.91	35.45	36.45	72.91		1.0%		
	Total									1,653.88	4,682.24	1,818.49	3,523.78	3,397.93	7,353.71				
	Component (%)									15.8%	83.3%	7.9%	52.8%	55.1%	100.0%				
		m3								118.34	488.09	151.57	352.40	283.40	703.00				

Unit Rate	M3	
Miscellaneous covers the cost for soap, shovel, broom, etc.		

Proportion of mortar and aggregate	25%	75%
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W0742 Stone Masonry, laid

Unit: 10.00 m3

Item No.		Description	Unit	Quantity	Unit Rate					Amount					Remarks	
					Component (%)					Total	Component (PP)					Total (PP)
					Lab.	Mat.	Equip.	For.	Locs.		Labor	Material	Equipment	Foreign		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	576.80	172.80	0.00	0.00	0.00	172.80	172.80
L007	Nacserv	md	0.00	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	471.00	282.60	0.00	0.00	0.00	282.60	282.60
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	329.00	704.00	0.00	0.00	0.00	704.00	704.00
W019	Gavel/Stone. Transmorted	m4	8.40	11.8%	18.6%	69.5%	44.5%	55.2%	197.00	195.06	308.44	1,150.30	741.71	913.03	1,554.80	Loss 20.0%
W022	Mortar (12)	m3	3.06	1.5%	94.0%	4.5%	58.2%	41.8%	2,340.00	105.79	8,733.62	321.00	4,165.30	2,995.10	7,160.40	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	99.75	49.87	99.87	99.75	
Total											1,481.25	7,042.08	1,571.05	4,956.94	5,117.49	10,074.35
Components (%)											14.5%	69.5%	15.5%	45.2%	50.8%	100.0%
											706.00	195.06	198.98			

Unit Rate	m3	
Miscellaneous covers the cost for repair above		brass etc

Proportion of mortar and aggregate	3	30 0%	70 0%
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W0751 Concrete Hollow Block (150x200x400mm), furnish & laying including mortar fill

Unit: 100,00 each

Concrete Hollow Block (150x200x400mm)										Unit Rate					Amount					Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)					
				Labor	Mat.	Equip.	For.	Local		Labor	Materials	Equipment	Foreign	Local						
L002	Foreman	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	0.00	460.80	460.80				
L007	Masonry	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	518.10	0.00	0.00	0.00	0.00	518.10	518.10				
L020	Unskilled Labor	nd	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	928.00	0.00	0.00	0.00	0.00	928.00	928.00				
M2012	Concrete Hollow Block (load bearing) 8"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	0.00	330.00	990.00	1,320.00	Loss 10.0%			
W0221	Mortar (1:3)	m³	0.37	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	11.19	631.58	50.63	390.98	292.42	673.40	673.40	Loss 3.0%			
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%			38.00	19.50			57.50	57.50				
	Total										1,918.09	1,021.58	69.54	740.49	3,139.82	3,139.82				
	Components (%)										48.7%	43.5%	1.8%	18.8%	8.1%	100.0%				
	Unit Rate	each									19.18	19.52	0.70	7.41	31.99	39.40				

Unit Rate	each
Miscellaneous covers the cost for cart, minor tools, etc	

W0852 Aggregate Subbase Course for Side Walk (±100mm)

Unit: 100.00 m2

Unit Rate										Amount					Total		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	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00		
R0305-037	Vibratory Single Smooth Drum 3.75t (Vibration Roller combined, 3-4t)	hr	1.93	20.7%	9.0%	70.3%	44.0%	56.0%	431.00	172.19	74.86	584.78	366.00	465.83	831.83		
R0306-006	Vibration Rammer, 6in	dv	0.85	0.0%	49.4%	60.6%	59.7%	40.3%	168.00	0.00	66.34	67.96	80.14	54.16	134.30		
W0122	Crushed Askerente, transported	m3	13.56	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	322.29	642.96	2,632.23	1,643.46	1,856.03	3,498.48	Loss 32.0%	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									1,484.47	894.17	3,285.96	2,089.59	3,336.02	5,424.61		
	Component (%)									15.5%	12.5%	60.2%	30.5%	61.5%	100.0%		
		m3								32.63	8.84	32.63	30.88	33.32	64.72		

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

Unit: 100.00 m2

Unit: 100.00 hr										Unit: 100.00 hr									
Item No.	Description	Unit	Quantity	Unit Rate					Total	Amount					Total (PP)	Remarks			
				Component (%)						Component (PP)									
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local					
L002	Foreman	ad	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	578.00	518.40	0.00	0.00	0.00	518.40	518.40				
L019	Skilled Labor	ad	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00				
L020	Unskilled Labor	ad	11.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,680.00	0.00	0.00	0.00	3,680.00	3,680.00				
W0203	Concrete (Class A, 21MPa, max agg. 35mm)	m3	10.40	2.5%	81.5%	18.1%	56.8%	43.2%	1,690.00	408.00	13,475.01	2,654.99	9,393.75	7,142.25	16,536.00	Loss 4.0%			
M0710	Joint Filler (bicomponous 140mm)	m2	2.50	0.0%	100.0%	0.0%	60.0%	40.0%	288.00	0.00	715.00	0.00	429.00	286.00	718.00				
M0711	Joint Sealant (10g/10mm)	m	30.00	0.0%	100.0%	0.0%	80.0%	40.0%	628.70	0.00	3,135.00	0.00	1,881.00	1,254.00	3,135.00				
M02011	Structural Steel (Round Bar, SS400)	kg	246.80	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	5,378.88	0.00	3,763.12	1,612.76	5,378.88				
M0701	Steel Gas Pipe, φ25	m	52.00	0.0%	100.0%	0.0%	80.0%	40.0%	117.00	0.00	6,084.00	0.00	3,650.40	2,433.60	6,084.00				
M0701	Nonferrous	LS	1.00							0.00	0.00	0.00	0.00	0.00	3,080.34	8.0%			
	Total									7,004.40	28,764.99	2,654.99	10,117.87	19,337.61	41,564.97				
	Component (%)									17.0%	69.2%	8.4%	46.0%	100.0%					
										70.6%	283.9%	28.5%	191.2%	493.9%	108.0%				

[illegible]

Thickness = 0.100 in.

10871 Guardrail Type A. furnish

Unit: 8.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab	Mnt.	Equip	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	46.08	0.00	0.00	0.00	46.08	46.08	
L009	Welder	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	81.44	0.00	0.00	0.00	81.44	81.44	
L010	Painter	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	71.68	0.00	0.00	0.00	71.68	71.68	
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20	131.20	
M02015	Structural Steel (Plates, SS400)	kg	93.64	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,891.53	0.00	1,324.07	567.46	1,891.53	Loss 8.0%
M02031	Steel Pipe	kg	105.52	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	2,521.93	0.00	1,765.35	756.58	2,521.93	Loss 8.0%
M02351	Bolt M16x50	ea	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	7.83	0.00	234.90	0.00	164.43	70.47	234.90	
M02359	Bolt M16x150	ea	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	each	0.16	0.0%	39.8%	60.2%	68.6%	41.4%	588.00	0.00	57.44	58.64	55.12	38.96	94.08	
R1001-100	Generator 51-100 kw	day	0.16	0.0%	48.6%	53.4%	59.3%	40.7%	2,690.00	0.00	229.83	255.10	174.30	430.40	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		250.17	750.61	667.12	557.12	1,000.08	1,667.80	30.0%
	Total									580.57	5,692.09	953.59	4,270.45	2,956.68	7,227.14	
	Component (%)									8.0%	78.9%	13.2%	59.1%	40.9%	100.0%	
	Unit Rate	m								72.54	711.31	119.15	533.58	369.42	903.00	

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

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		
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	48.08	0.00	0.00	0.00	48.08	48.08	
L009	Welder	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	91.44	0.00	0.00	0.00	91.44	91.44	
L010	Painter	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	71.68	0.00	0.00	0.00	71.68	71.68	
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20	131.20	
N02015	Structural Steel (Plates, SS400)	kg	93.84	0.0%	100.0%	0.0%	70.0%	30.0%	0.00	1,891.53	30.39	0.00	0.00	567.46	1,891.53	Loss 8.0%
N02031	Steel Pipe	kg	55.30	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,321.67	0.00	925.17	396.50	1,321.67	Loss 8.0%
N02351	Bolt M16x50	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	7.83	0.00	234.90	0.00	164.43	70.47	234.90	
N02359	Bolt M16x150	each	3.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.70	0.00	66.10	0.00	39.27	16.83	66.10	
R0901-025	Welding Machine 250A	day	0.16	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	56.64	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	229.83	255.10	175.30	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		196.16	588.48	523.09	523.09	784.63	1,307.72	30.0%
	Total									520.56	4,330.69	809.56	3,260.25	2,350.55	5,666.80	
	Components (%)									9.3%	76.4%	14.3%	58.0%	42.0%	100.0%	
	Unit Rate									65.79	541.07	101.14	410.59	297.42	708.00	

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

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

Unit: 47.26 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	270.72	0.00	0.00	0.00	270.72	270.72	
L009	Welder	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	239.23	0.00	0.00	0.00	239.23	239.23	
L010	Painter	md	0.96	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	425.60	0.00	0.00	0.00	425.60	425.60	
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	582.20	0.00	0.00	0.00	582.20	582.20	
N02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,585.43	0.00	3,900.80	1,675.63	5,585.43	Loss 3.0%
N02014	Structural Steel (Shapes, SS400)	kg	419.80	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,388.48	0.00	5,171.94	2,216.54	7,388.48	Loss 3.0%
N02018	Structural Steel (Plates, SS400)	kg	32.70	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	660.84	0.00	462.38	198.46	660.84	Loss 3.0%
N02011	Structural Steel (Round Bar, SS400)	kg	29.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	638.74	0.00	447.12	191.62	638.74	Loss 3.0%
N02061	Chain Link Wire Net	m ²	86.49	0.0%	100.0%	0.0%	70.0%	30.0%	168.00	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32	Loss 3.0%
R0901-025	Welding Machine 250A	day	0.47	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	159.99	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	599.16	747.14	749.37	514.93	1,264.30	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		1,433.79	4,301.35	3,823.43	3,823.43	5,735.15	9,558.68	30.0%
	Total									2,931.54	33,804.02	4,664.94	24,897.16	16,529.33	41,420.50	
	Components (%)									7.1%	81.6%	11.3%	60.1%	39.9%	100.0%	
	Unit Rate	m								62.42	714.92	98.66	525.55	349.45	876.00	

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

W0911 Digging Out Tree, Low Tree H≤1.5m

Unit: 100.00 each

UNIT PRICE ANALYSIS										AMOUNT					REMARKS	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE					TOTAL (PP)	AMOUNT						
				LAB.	MAT.	EQUIP.	FOR.	LOCAL		LABOR	MATERIAL	EQUIPMENT	FOREIGN	LOCAL		TOTAL (PP)
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	984.00	0.00	0.00	0.00	984.00	984.00	
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	736.00	0.00	0.00	0.00	736.00	736.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,892.80	0.00	0.00	0.00	1,892.80	1,892.80	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate									18.90	0.00	0.00	0.00	18.90	18.90	

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

Unit: 100.00 each

UNIT PRICE				AMOUNT										REMARKS	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE					TOTAL (PP)	AMOUNT					
				Component (%)						Component (PP)					
				LAB.	MAT.	EQUIP.	FOR.	LOCAL		LABOR	MATERIAL	EQUIPMENT	FOREIGN	LOCAL	TOTAL (PP)
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	0.00	345.60
L019	Skilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,845.00	0.00	0.00	0.00	0.00	1,845.00
L020	Unskilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,440.00	0.00	0.00	0.00	0.00	1,440.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									3,630.60	0.00	0.00	0.00	3,630.60	3,630.60
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	Unit Rate									36.30	0.00	0.00	0.00	36.30	36.30

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

Unit: 100.00 each

BIDDER UNIT 1200, HIGH 1200 (Young Prob), 1.00 mm 3.00										Unit		100.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount				Remarks		
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	979.20	0.00	0.00	0.00	0.00	979.20	
L019	Skilled Labor	md	8.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,485.00	0.00	0.00	0.00	0.00	3,485.00	
L020	Unskilled Labor	md	6.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,952.00	0.00	0.00	0.00	0.00	1,952.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									6,416.20	0.00	0.00	0.00	6,416.20	6,416.20	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	each								64.20	0.00	0.00	0.00	64.20	64.20	

W0921 Tree Haulage, Low Tree H≤1.5m

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	5.48	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	335.89	470.32	1,643.65	1,197.40	1,262.16	2,449.55	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									335.89	470.32	1,643.65	1,197.40	1,252.16	2,449.55	
	Components (%)									13.7%	19.2%	67.1%	48.9%	51.1%	100.0%	
	Unit Rate	each								3.36	4.70	16.44	11.98	12.52	24.50	
	T = (A+N*2*L)/V/N															
	N: Loading capacity = 50.00 each															
	L: Haulage Distance = 3.00 km															
	A: Loading Time = 0.05 hr/each															
	V: Traveling Speed = 26.00 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		
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	10.53	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	644.85	903.73	3,168.34	2,300.84	2,406.07	4,706.91	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									644.85	903.73	3,168.34	2,300.84	2,406.07	4,706.91	
	Components (%)									13.7%	19.2%	67.1%	48.9%	51.1%	100.0%	
	Unit Rate	each								6.45	9.04	31.60	23.02	24.06	47.10	
	T = (A+N+2L)/V/N	=	0.11 hr/each													
	N: Loading capacity	=	45.00 each						A: Loading Time =			0.10 hr/each				
	L: Haulage Distance	=	3.00 km						V: Traveling Speed =			26.00 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		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local			
R0501-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	18.20	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	1,114.55	1,562.00	6,468.85	3,976.76	4,168.64	8,135.40		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total									1,114.55	1,562.00	5,458.85	3,976.76	4,168.64	8,135.40		
	Component (%)									13.7%	19.2%	67.1%	48.9%	51.1%	100.0%		
	Unit Rate	each								11.15	15.63	84.92	39.79	41.61	81.40		
	T = (A+N+L/V)/N	=	0.18	hr/each													
	N: Loading capacity	=	20.00	each													
	L: Haulage Distance	=	3.00	km													
	A: Landing Time	=	0.17	hr/each													
	V: Traveling Speed	=	26.00	km/hr													

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

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	0.0%
L019	Skilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,517.00	0.00	0.00	0.00	1,517.00	1,517.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
	Miscellaneous	LS	1.00							2,765.00	0.00	0.00	0.00	2,765.00	2,765.00	
	Total									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Components (%)															
	Unit Rate	each								27.70	0.00	0.00	0.00	27.70	27.70	

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

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,843.20	0.00	0.00	0.00	1,843.20	1,843.20	0.0%
L019	Skilled Labor	md	16.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,601.00	0.00	0.00	0.00	6,601.00	6,601.00	
L020	Unskilled Labor	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	3,072.00	0.00	0.00	0.00	3,072.00	3,072.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									11,516.20	0.00	0.00	0.00	11,516.20	11,516.20	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	each								115.00	0.00	0.00	0.00	115.00	115.00	

W0951 Precast Curbstone for Planter Square, Furnish

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max seg. 38mm)	m3	2.30	2.6%	81.6%	16.1%	56.8%	43.2%	1,590.00	89.79	2,980.06	587.16	2,077.45	1,576.54	3,657.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.25	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	502.94	1.01	9.05	5.53	507.47	513.00	
W0236	Concrete Curing (plain concrete)	m3	2.25	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	14.40	1.77	4.13	3.25	17.05	20.30	8.0%
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.18	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	10.98	19.46	78.28	55.11	53.61	108.72	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	208.35	137.37	171.06	171.06	343.92	
	Total									518.11	3,208.54	816.19	2,313.32	2,329.62	4,642.34	
	Components (%)									13.3%	69.1%	17.6%	49.6%	50.2%	100.0%	
	Unit Rate	m								6.18	32.07	8.16	23.12	23.28	46.40	

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

W0952 Precast Curbstone for Planter Square, Laying

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	806.40	0.00	0.00	0.00	806.40	806.40	4.0%
L007	Masonry	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	894.90	0.00	0.00	0.00	894.90	894.90	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,664.00	0.00	0.00	0.00	1,664.00	1,664.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	80.0%	80.0%		0.00	107.69	26.92	67.31	67.31	134.61	
	Total									3,365.30	107.69	26.92	67.31	3,432.61	3,499.91	
	Components (%)									96.2%	3.1%	0.8%	1.9%	98.1%	100.0%	
	Unit Rate	m								33.65	1.08	0.27	0.67	34.33	35.00	

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

W0958 Treading Prevention Board for Planter Square, Furnish

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max seg. 38mm)	m3	5.12	2.6%	81.6%	16.1%	56.8%	43.2%	1,590.00	238.91	7,929.53	1,562.36	5,527.86	4,202.94	9,730.80	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	6.00	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,341.18	2.68	24.14	14.76	1,353.25	1,368.00	
W0236	Concrete Curing (plain concrete)	m3	6.00	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	38.38	4.72	11.02	8.66	45.46	54.12	8.0%
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	480.00	15.4%	76.8%	7.0%	53.9%	46.1%	23.40	1,731.26	8,825.07	875.87	6,048.49	5,183.51	11,232.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.90	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	54.90	97.30	391.39	275.57	268.03	543.60	
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	80.0%	80.0%		0.00	1,100.67	733.71	917.14	917.14	1,834.28	
	Total									3,404.84	17,759.88	3,598.29	12,792.47	11,970.33	24,762.80	
	Components (%)									13.7%	71.7%	14.5%	51.7%	48.3%	100.0%	
	Unit Rate	m2								34.10	177.87	36.04	128.12	119.88	248.00	

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

W0957 Treading Prevention Board for Planter Square, Laying

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	7.0%
L007	Masonry	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	1,224.80	0.00	0.00	0.00	1,224.80	1,224.80	
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,376.00	0.00	0.00	0.00	1,376.00	1,376.00	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	150.01	54.29	107.15	107.15	214.20	
	Total									3,061.40	150.01	54.29	107.15	3,162.85	3,215.10	
	Components (%)									93.5%	4.6%	2.0%	3.3%	96.7%	100.0%	
	Unit Rate	m2								30.65	1.50	0.54	1.07	31.73	32.80	

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

W1001 Underground Cable Duct

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W1002	Excavation, Backhoe 0.35m3	m3	3.00	6.5%	8.4%	85.1%	51.8%	48.2%	49.40	9.63	12.45	126.12	76.78	71.42	148.20	Loss 2.0%
W0111	Disposal of Surplus Soil (backhoe loadings)	m3	0.90	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	6.91	12.36	64.52	43.08	40.71	83.79	
W0133	Backfill C	m3	2.10	11.6%	11.8%	78.6%	49.4%	50.7%	145.00	35.40	36.96	233.14	150.16	154.34	304.50	
W0201	Lawn Concrete (17MPa, max seg. 38mm)	m3	0.92	2.6%	80.0%	17.4%	56.5%	43.5%	1,470.00	35.83	1,081.74	234.83	764.78	687.62	1,352.40	
W0235	Concrete Pouring by Manpower for small structures	m3	0.80	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	201.16	0.40	3.62	2.21	202.99	205.20	
W0236	Concrete Curing (plain concrete)	m3	0.90	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	5.76	0.71	1.65	1.30	6.82	8.12	1.0%
W13052	Electric Conduit	m	10.00	0.0%	100.0%	0.0%	45.0%	55.0%	67.90	0.00	679.00	0.00	305.55	373.45	679.00	
W13051	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	82.30	0.00	623.00	0.00	342.65	280.35	623.00	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	128.70	0.00	0.00	0.00	128.70	128.70	
	Miscellaneous	LS	1.00	0.0%	80.0%	50.0%	50.0%	50.0%		0.00	17.95	17.95	17.95	17.95	35.91	
	Total									481.00	2,463.89	681.81	1,204.47	1,021.95	3,625.42	
	Components (%)									13.3%	67.9%	18.8%	47.0%	63.0%	100.0%	
	Unit Rate	m								48.10	246.39	68.18	120.45	102.19	362.54	

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

W1001 Electric Cable Laying

W1102 Traffic Signal Post Type A (West Area) H=6.0m, Furnished

W1102 Traffic Signal Post Type A (West Area) H=6.0m, Furnished										Unit: 1.00 each									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Locs		Labor	Material	Equipment	Foreign	Locs	Total (PP)				
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	0.00	172.80	172.80			
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	610.80	0.00	0.00	0.00	0.00	610.80	610.80			
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	0.00	615.00	615.00			
M02031	Steel Pipe	kg	352.49	0.0%	100.0%	0.0%	0.0%	100.0%	23.90	0.00	8,424.51	0.00	5,897.18	2,527.35	8,424.51	Loss 5.0%			
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	0.0%	100.0%	20.20	0.00	1,180.29	0.00	812.30	348.09	1,180.29	Loss 5.0%			
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	0.0%	100.0%	21.80	0.00	185.52	0.00	129.86	185.52	Loss 5.0%				
R0901-025	Welding Machine 250A	dav	1.20	0.0%	39.8%	80.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00				
R1001-150	Generator 101-150 kW	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00				
R0602-009	Cargo truck 9.0-10.0t	hr	0.21	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	17.54	27.84	135.43	91.63	89.18	180.81				
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		97.62	2,196.41	2,586.89	2,684.51	2,196.41	4,880.92	30.0%			
Total										1,513.76	14,489.91	5,148.99	12,556.85	8,513.80	21,150.85				
Components (%)										7.2%	68.5%	24.3%	59.4%	40.6%	100.0%				
Unit Rate										1,517.29	14,523.72	5,159.00	12,566.15	8,513.95	21,200.00				

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

W1103 Traffic Signal Posts Type B $\phi 114.3mm \times 4.2m$, Furnished

Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished										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			
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20			
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00			
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00			
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	0.0%	79.0%	30.0%	23.90	0.00	1,337.68	0.00	936.38	401.30	1,337.68	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	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%	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%	80.2%	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	1,726.58	2,164.17	1,446.83	3,610.00		
R0602-009	Cargo truck 9.0-10.0 t	hr	0.04	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	3.34	8.30	25.80	17.45	16.99	34.44		
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		43.36	976.69	1,149.15	1,192.52	976.69	2,169.21	30.0%	
Total											1,162.90	4,918.17	3,254.50	5,033.74	4,361.84	9,395.58	
Components (%)											12.4%	53.0%	34.6%	53.5%	46.4%	100.0%	
Unit Rate											1,163.45	4,980.51	3,255.03	5,036.11	4,363.89	9,400.00	

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

W1104 Traffic Signal Posts Type C $\phi 114.3mm \times 3.4m$, Furnished

W1104 Traffic Signal Posts Type C Φ114.3mm x 3.4m, Furnished										Unit: 1.00 each							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	0.00	509.00	509.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	0.00	492.00	492.00	
M02031	Steel Pipe	kg	45.25	0.0%	100.0%	0.0%	0.0%	70.0%	30.0%	23.90	0.00	1,081.71	0.00	757.20	324.51	1,081.71	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	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%	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%	80.2%	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	1,726.58	2,164.17	1,446.83	3,610.00		
R0602-009	Cargo truck 9.0-10.0t	hr	0.04	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	3.34	5.30	25.80	17.45	16.99	34.44		
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.83	941.14	1,109.45	1,150.28	941.14	2,091.42	30.0%	
Total										1,161.37	4,687.65	3,213.80	4,812.32	4,250.69	9,062.82		
Components (%)										12.8%	51.7%	35.5%	53.1%	46.9%	100.0%		
Unit Rate										1,161.01	4,685.19	3,212.80	4,810.83	4,249.17	9,060.00		

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

W1105 Pedestrian Signal Posts Type D $\phi 114.3mm \times 3.0m$, Furnished

W1105 Pedestrian Signal Posts Type D ø114.3mm x 3.0m, Furnished										Unit: 1.00 each									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)				
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	0.00	115.20	115.20			
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	0.00	509.00	509.00			
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	0.00	492.00	492.00			
M02031	Steel Pipe	kg	40.01	0.0%	100.0%	0.0%	0.0%	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%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%			
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	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%	80.2%	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	1,726.58	2,164.17	1,446.83	3,610.00				
R0602-009	Cargo truck 9.0-10.0t	hr	0.03	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	2.51	3.96	19.35	12.09	25.83					
	Miscellaneous	LS	1.20	2.0%	45.0%	63.0%	55.0%	45.0%		41.02	923.04	1,087.13	1,128.16	923.04	2,051.20	30.0%			
Total										1,159.73	4,542.75	3,186.04	4,698.01	4,190.51	8,888.52				
Components (%)										13.0%	51.1%	35.8%	52.9%	47.1%	100.0%				
Unit Rate										1,159.92	4,543.51	3,186.57	4,698.79	4,191.21	8,890.00				

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

W1201 Street Lighting Pole (single lamp), furnished

W201 Street Lighting Pole (single lamp), furnished				Unit: 1.00 each													
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	0.00	115.20	115.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	610.80	0.00	0.00	0.00	0.00	610.80	610.80	
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	0.00	615.00	615.00	
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, S5400)	kg	31.08	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, S5400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	11.90	0.00	185.52	0.00	128.06	57.46	185.52	Loss 5.0%	
W0901-025	Welding Machine 250A	day	1.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.00	353.98	344.48	243.52	688.00		
R1001-150	Generator 101-150 kw	day	0.10	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00		
R0602-009	Cargo truck 9.0-10.0t	day	1.24	9.7%	15.4%	74.9%	50.0%	49.3%	861.00	11.69	18.56	90.28	61.69	59.45	120.64		
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		381.62	1,144.87	2,289.74	1,908.12	1,908.12	3,816.24	30.0%	
	Total									1,734.32	9,999.02	4,804.70	9,348.18	7,188.86	15,537.04		
	Components (%)									10.8%	60.5%	29.1%	56.5%	43.6%	100.0%		
	Unit Rate	each								1,730.43	9,975.63	4,793.94	9,327.24	7,172.76	16,500.00		

W2001 Heavy Equipment Assembly & Disassembly

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L018	Skilled Labor	md	18.55	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	7,605.30	0.00	0.00	0.00	7,605.30	7,605.30	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	12.96	8.6%	8.3%	83.2%	50.6%	49.5%	881.00	970.51	947.87	9,499.58	5,770.33	6,847.43	11,417.76	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	18.61	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	1,393.89	1,533.28	16,988.53	10,245.56	9,667.14	19,912.70	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	0.00	5.1%	7.3%	87.6%	52.2%	47.8%	1,470.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-035	Truck Crane, Hydraulic 31-35t	hr	0.00	4.8%	6.4%	89.1%	52.4%	47.0%	1,680.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	778.72	778.72	856.69	700.85	1,557.44	4.0%
	Total									9,969.90	3,269.87	27,553.83	16,872.49	23,620.91	40,493.40	
	Components (%)									24.6%	8.0%	67.5%	41.7%	88.3%	100.0%	
	Unit Rate	LS								9,971.52	3,260.20	27,608.27	16,875.24	23,624.16	40,500.00	

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

Specification	No.	Wk (t)	Labor (day)	Required Days of Truck Crane for Assembly & Disassembly					Wz (t)	Wb (t)
				11-15t	16-20t	21-25t	26-30t	31-35t		
Bulldozer	15t	0	14.8	0.00					14.60	0.00
Crane operation days = 0.0322Wk + 0.43	21t	2	21.9	2.27					20.58	1.34
Remaining Part Weight Wz = 0.4295Wk + 11.15										
Crawler Crane	22.5t	0	26.6	0.00					20.77	5.83
Crane operation days = 0.2063Wk + 0.05	25~27t	0	27.8	0.00					20.93	6.87
Crane operation days = 0.0218Wk + 0.84	35~37t	2	38.2	15.04					22.09	14.11
Remaining Part Weight Wz = 0.1379Wk + 17.10	40t	0	41.1	0.00					22.77	18.33
	50t	0	49.9	0.00					23.97	25.83
	60t	0	65.6	0.00					28.15	39.45
All Casing Excavator	1200max	0	24.0	0.00					22.36	1.64
Crane operation days = 0.0376Wk + 0.86	1500max	0	39.9	0.00					24.89	15.01
Remaining Part Weight Wz = 0.1589Wk + 18.55	2000max	0	49.0	0.00					26.34	22.66
Total		4	18.55	2.27	3.26	0.00	0.00	0.00		
Duration hours per day				5.71	5.71	5.71	5.71	5.71		
Remaining Part Weight Wb = Wk - Wz										

W2002 Transportation of Disassembled Equipment

Unit: 1.00 LS

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					
R0604-020	Trailer 20t	hr	0.00	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	0.00	0.00	0.00	0.00	0.00	0.00				
R0604-048	Trailer 45t	hr	18.00	2.4%	8.2%	89.4%	53.9%	46.1%	2,700.00	1,168.40	3,985.20	43,448.40	26,207.85	22,392.15	48,600.00				
R0602-009	Cargo truck 9.0-10.0t	hr	18.00	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	1,503.31	2,386.69	11,608.00	7,853.83	7,644.17	15,498.00				
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%			
Total										2,659.71	6,371.89	55,056.40	34,061.68	30,036.32	41,058.00				
Components (%)										4.2%	9.7%	53.3%	12.7%	10.0%	45.9%				
Unit Rate										2,659.79	6,372.09	55,058.12	34,062.74	30,037.26	41,060.00				

No.	Wz (t)	Wb (t)	n-Wb	Trips of Trailer	Cargo Truck	Travel hour/trip = n + 2-L/V
Bulldozer	15t	0	14.60	0.00	45t	4.50 hr
	21t	2	20.58	1.34	0	
Crawler Crane	22.5t	0	20.77	5.83	0	
	25~27t	0	20.93	6.87	0	
	35~37t	2	22.09	14.11	2	a: Loading Time = 0.50 hr
	40t	0	22.77	18.33	0	L: Travel Distance = 50.00 km
	50t	0	23.97	25.83	0	V: Travel Speed = 25.00 km/hr
	60t	0	26.15	39.45	0	
All Casing Excavator	1200max	0	22.36	1.64	0	
	1500max	0	24.89	15.01	0	
	2000max	0	26.34	22.66	0	
Total Trips				30.9	4	4 (= Σ n-Wb/9.5/0.85)

W2003 Other Equipment & Material Haulage

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0604-020	Trailer 20t	hr	4.50	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	293.09	804.11	6,417.81	4,305.96	3,509.04	7,515.00	
R0602-009	Cargo truck 9.0-10.0t	hr	90.00	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	7,516.53	11,933.46	58,040.01	39,269.14	35,220.86	77,490.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total																
Components (%)																
Unit Rate																

Number of Trips
 Trailer 20t = 1 trip
 Cargo truck 9.0-10.0t = 20 trip
 Travel hour/trip = n + 2-L/V
 a: Loading Time = 0.50 hr
 L: Travel Distance = 50.00 km
 V: Travel Speed = 25.00 km/hr

W2004 Establishment of Temporary Site Office & Yard

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount (PP)					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Temporary Site Office/Yard	m2	1,500.00	10.0%	50.0%	40.0%	45.0%	55.0%	230.00	34,500.00	172,500.00	138,000.00	155,250.00	189,750.00	345,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									34,500.00	172,500.00	138,000.00	155,250.00	189,750.00	345,000.00	
	Components (%)									10.0%	50.0%	40.0%	45.0%	55.0%	100.0%	
	Unit Rate	LS								34,500.00	172,500.00	138,000.00	155,250.00	189,750.00	345,000.00	

W3001 Site Preparation for Engineer's Field Office and Living Quarters

Unit: 100.00 m2

Item No.				Description		Unit	Quantity	Unit Rate						Amount						Remarks
								Component (%)					Total (PP)	Component (PP)					Total (PP)	
								Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0101		Excavation, Bulldozer 21t		m3	10.00			1.6%	8.1%	90.3%	54.3%	45.7%	25.40	4.05	20.87	229.35	137.85	115.15	254.00	0.0%
		Miscellaneous		LS	1.00								0.00	0.00	0.00	0.00	0.00	0.00		
		Total											4.05	20.87	229.35	137.85	115.15	254.00		
		Components (%)											1.6%	8.1%	90.3%	54.3%	45.7%	100.0%		
		Unit Rate		=									0.04	0.21	2.29	1.33	1.16	2.54		
		Excavation depth		=	0.100															

Excavation depth = 0.100

W3002 150mm Thick Concrete Hollow Block Wall

Unit: 10.00 m2

Amount																
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Labor	Material	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L007	Masonry	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	188.40	0.00	0.00	0.00	188.40	188.40	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00	
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	128.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,536.00	0.00	384.00	1,152.00	1,536.00	Loss 2.0%
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	25.30	15.4%	76.8%	7.8%	53.0%	46.1%	23.40	91.25	454.61	46.16	318.81	273.21	592.02	
W0221	Warter (1:3)	m3	0.46	1.7%	93.0%	4.5%	58.1%	41.9%	1,820.00	13.91	785.21	38.08	488.08	351.12	837.20	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	16.41	18.41	18.05	32.82	32.82	Loss 2.0%
										421.56	2,792.23	100.65	1,208.94	3,214.44		
										12.7%	84.2%	3.0%	36.4%	100.0%		
										42.10	278.85	10.05	120.53	331.60		
															</	

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
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M02014	Structural Steel (Shapes, SS400)	kg	420.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.50	0.00	7,392.00	0.00	5,174.40	2,217.60	7,392.00
M02015	Structural Steel (Plates, SS400)	kg	630.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	12,726.00	0.00	8,908.20	3,817.80	12,726.00
M02071	High Tension Bolt M16	each	8.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	148.00	0.00	103.60	44.40	148.00
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00
R1001-100	Generator 51-100 kW	day	1.00	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,263.54	1,436.46	1,594.40	1,095.60	2,690.00
R0402-030	Truck Crane, Hydraulic 26-30t	hr	2.96	5.1%	7.3%	87.6%	62.2%	47.8%	1,470.00	214.41	305.91	3,682.88	2,195.28	2,008.92	4,204.20
R0604-020	Traveller 20t	hr	0.23	3.9%	10.7%	85.4%	53.3%	45.7%	1,670.00	14.98	41.10	328.02	204.75	179.35	384.10
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	55.0%	45.0%	0.00	900.13	4,053.28	4,954.01	4,953.28	9,007.29	30.0%
Total										3,022.12	26,164.85	8,854.62	23,439.12	15,552.47	39,031.59
Components (%)										7.7%	67.0%	25.2%	60.2%	39.8%	100.0%
Unit Rate										3,019.88	26,133.68	8,846.64	23,460.12	15,539.88	39,060.00

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
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	509.00	0.00	0.00	0.00	509.00	509.00
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M12112	Corrugated Galvanized Iron Sheet, colored	m ²	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
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	8.8%	87.6%	62.0%	48.0%	1,330.00	106.61	129.33	1,666.06	988.26	913.64	1,901.90
R0604-020	Traveller 20t	hr	0.04	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	2.61	7.15	57.05	35.61	31.19	66.80
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	156.36	171.99	140.72	112.71	2.0%
Total										1,332.11	12,736.83	1,873.47	8,662.26	7,286.16	15,948.41
Components (%)										8.4%	79.9%	11.9%	54.3%	45.7%	100.0%
Unit Rate										13.28	126.98	18.74	86.36	72.64	159.00

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

W3005 Prepainted Steel Wall Panels on Steel Frames with Insulation

 Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	254.50
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M12112	Corrugated Galvanized Iron Sheet, colored	m ²	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
M12111	Galvanized Iron Sheet, colored	m ²	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M02014	Structural Steel (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
M12211	Insulation, Grasswool	m ²	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00
R0901-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	178.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	day	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	5.6%	8.8%	87.6%	62.0%	48.0%	1,330.00	106.61	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	311.20	311.20	342.32	280.08	622.40
Total										1,584.01	58,406.31	2,872.47	39,035.32	23,827.48	62,862.80
Components (%)										2.5%	82.9%	4.6%	62.1%	37.9%	100.0%
Unit Rate										15.85	584.41	28.72	390.35	238.42	628.63

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
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	254.50	0.00	0.00	0.00	254.50	254.50
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	615.00	0.00	0.00	0.00	615.00	615.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M12111	Galvanized Iron Sheet, colored	m ²	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
M12112	Galvanized Iron Sheet, colored	m ²	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M02014	Structural Steel (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
M12211	Insulation, Grasswool	m ²	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00
R0901-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	178.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	day	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	5.6%	8.8%	87.6%	62.0%	48.0%	1,330.00	106.61	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	309.16	309.16	340.08	278.25	615.32
Total										1,584.01	57,096.27	2,870.41	38,788.28	23,682.45	62,466.72
Components (%)										2.5%	82.9%	4.6%	62.1%	37.9%	100.0%
Unit Rate										15.85	580.42	28.71	389.19	236.81	625.00

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

W3007 Plain Cement Floor Finish

 Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L007	Masonry	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	235.50	0.00	0.00	0.00	235.50	235.50
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00
W0221	Mortar (1:3)	m ³	3.06	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	92.53	5,223.33	253.34	3,233.49	2,335.71	5,569.20
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	178.94	178.94	196.84	161.05	357.89
Total										488.03	5,402.27	432.28	3,433.33	2,892.25	6,322.68
Components (%)										7.7%	85.4%	6.8%	54.3%	45.7%	100.0%
Unit Rate										4.88	54.00	4.32	34.33	29.21	63.20

#3011 Plain Cement Mortar Wall Finish

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L007	Masonrv	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	235.50	0.00	0.00	0.00	235.50	235.50
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	258.00	0.00	0.00	0.00	258.00	258.00
W0221	Mortar (1:3)	m3	3.06	1.7%	93.8%	4.5%	88.1%	41.8%	1,820.00	92.53	5,223.33	283.34	3,233.49	2,538.71	5,809.20
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	181.82	0.00	0.00	181.82	181.82
	Total									584.03	5,405.16	433.18	3,433.50	2,990.95	6,424.34
	Components (%)									8.1%	84.1%	6.6%	53.4%	46.6%	100.0%
	Unit Rate		m ²							5.84	54.01	4.35	34.31	29.89	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
				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%	509.00	407.20	0.00	0.00	0.00	407.20	407.20
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	320.00	0.00	0.00	0.00	320.00	320.00
M02015	Structural Steel (Plates, S5400)	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
R0901-028	Welding Machine 250A	dav	0.80	0.0%	39.8%	60.2%	58.6%	41.4%	888.00	0.00	187.22	283.18	275.69	194.84	470.40
R1001-100	Generator 51-100 kW	dav	0.80	0.0%	48.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,002.83	1,149.17	1,275.62	876.48	2,162.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.37	7.0%	7.7%	85.3%	81.5%	48.5%	1,070.00	102.81	112.87	1,250.41	754.24	711.08	1,465.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	824.13	824.13	906.64	741.71	1,648.25
	Total									1,075.81	2,569.73	3,508.89	3,514.76	3,527.67	7,142.43
	Components (%)									15.1%	36.8%	49.1%	49.2%	50.8%	100.0%
	Unit Rate		each							1,075.45	2,568.85	3,505.69	3,513.58	3,626.44	7,140.00

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

#3013 Doors & Windows for Engineer's Field Office and Living Quarters

Unit: 1.00 I.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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%	576.00	3,052.80	0.00	0.00	0.00	3,052.80	3,052.80
L019	Skilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	6,519.00	0.00	0.00	0.00	6,519.00	6,519.00
L020	Unskilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	5,088.00	0.00	0.00	0.00	5,088.00	5,088.00
M12251	Steel Door with Steel Panels 900x2100mm	each	7.00	0.0%	100.0%	0.0%	45.0%	55.0%	5,630.00	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	18.00	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	1,039.50	1,259.50	2,290.00
M12264	Steel Fixed Louver	each	4.00	15.1%	35.8%	49.1%	49.2%	50.8%	7,140.00	4,301.79	10,235.44	14,022.77	14,054.25	14,505.75	28,500.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	389.82	354.47	319.02	308.94	708.94
	Total									18,951.59	321,839.91	14,377.21	146,701.67	208,477.07	355,178.74
	Components (%)									5.3%	90.6%	4.0%	41.3%	58.7%	100.0%
	Unit Rate		I.S.							18,952.04	321,677.95	14,370.01	146,527.84	208,372.16	355,000.00

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

#3014 Lighting and Powers

Unit: 1.00 I.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00
L012	Electrician	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	428.00	3,432.00	0.00	0.00	0.00	3,432.00	3,432.00
L019	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,640.00	0.00	0.00	0.00	1,640.00	1,640.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixture, 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-16 with Heatless Type, Medium Base Porcelain Recontacts	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	487.03	398.46	885.50
M13153	3 One-way Wall Switches on one Gang Plate	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	103.00	0.00	309.00	0.00	169.95	139.05	309.00
M13154	Duplex Convenience Outlet, Grounding Type	each	36.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	2,898.00	0.00	1,593.90	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	518.00	0.00	283.80	232.20	518.00
M13156	Air Conditioning Outlet Grounding Type with Automatic Circuit Breaker in One Enclosure	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	694.00	0.00	2,082.00	0.00	1,145.10	936.90	2,082.00
M13157	Enclosed Automatic Circuit Breaker	each	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%	3,810.00	0.00	3,810.00	0.00	2,348.50	1,461.50	3,810.00
M13161	Concealed or Embedded Conduit Run	m	245.00	0.0%	100.0%	0.0%	50.0%	50.0%	7.62	0.00	1,842.40	0.00	921.20	1,842.40	1,842.40
M13162	Underground or Underfloor Conduit Run	m	107.00	0.0%	100.0%	0.0%	50.0%	50.0%	34.00	0.00	3,638.00	0.00	1,819.00	1,819.00	3,638.00
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	909.00	0.00	7,272.00	0.00	4,368.20	2,903.80	7,272.00
M13164	Galvanized Steel Lighting Post H=3.6m	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	4,870.00	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%	25.0%	70.0%	50.0%	50.0%		135.90	543.60	2,038.48	1,358.99	1,358.99	2,717.93
	Total									7,063.90	129,514.50	2,038.48	78,436.76	60,180.11	138,616.88
	Components (%)									5.1%	93.4%	1.5%	56.6%	43.4%	100.0%
	Unit Rate		I.S.							7,063.42	129,872.45	2,044.12	78,553.55	60,346.45	139,000.00

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

#3015 Sewer Water Line

Unit: 1.00 I.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (X)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,280.00	0.00	0.00	0.00	3,280.00	3,280.00	
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00	
M08310	PVC Pipe, ø100	m	120.00	0.0%	100.0%	0.0%	50.0%	50.0%	200.00	0.00	24,000.00	0.00	12,000.00	12,000.00	24,000.00	
M08701	Steel Gas Pipe, ø25	m	90.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	10,530.00	0.00	6,318.00	4,212.00	10,530.00	
M08302	PVC Pipe, ø50	m	45.00	0.0%	100.0%	0.0%	50.0%	50.0%	66.70	0.00	3,001.50	0.00	1,500.75	1,500.75	3,001.50	
M12271	Floor Drain	each	4.00	0.0%	100.0%	0.0%	45.0%	55.0%	268.00	0.00	1,054.00	0.00	478.80	1,054.00	1,054.00	
M12272	Urinal	each	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	2,310.00	0.00	2,310.00	0.00	1,270.50	1,039.50	2,310.00	
M12273	Toilet Stool	each	6.00	0.0%	100.0%	0.0%	55.0%	45.0%	5,110.00	0.00	30,660.00	0.00	16,863.00	13,797.00	30,660.00	
M12274	Lavatory Wash Basin	each	4.00	0.0%	100.0%	0.0%	55.0%	45.0%	2,920.00	0.00	11,680.00	0.00	6,424.00	5,256.00	11,680.00	
M12275	Shower	each	3.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,120.00	0.00	6,360.00	0.00	3,180.00	3,180.00	6,360.00	
M12276	Shower Drain	each	3.00	0.0%	100.0%	0.0%	45.0%	55.0%	343.00	0.00	1,029.00	0.00	463.05	565.95	1,029.00	
M12277	Clean Out	each	9.00	0.0%	100.0%	0.0%	45.0%	55.0%	319.00	0.00	2,871.00	0.00	1,291.95	1,579.05	2,871.00	
M12278	Sink (1 basin with table)	each	1.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,230.00	0.00	6,230.00	0.00	2,803.80	3,426.50	6,230.00	
M12279	Kitchen Sink (1 basin + flat with miscellaneous	L.S	1.00	0.0%	100.0%	0.0%	45.0%	55.0%	9,010.00	0.00	9,010.00	0.00	4,054.50	4,955.50	9,010.00	
	Total			5.0%	25.0%	70.0%	50.0%	50.0%		5,192.94	109,030.20	797.17	57,217.46	57,602.86	115,050.00	1.0%
	Component (X)									4.5%	94.8%	0.7%	49.1%	50.3%	100.0%	
	Unit Rate	L.S								5,192.02	109,019.95	797.03	57,207.95	57,792.65	115,000.00	

W3016 Septic Tank

W3016 Septic Tank		Unit: 1.00 each															
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0105	Excavation, Backhoe 0.6m3	m3	24.57	4.5%	8.4%	87.1%	52.9%	47.1%	40.90	45.22	84.41	875.28	531.38	473.53		1,004.91	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	12.32	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	94.59	169.25	883.16	589.75	557.24		1,146.99	
W0132	Backfill B	m3	12.25	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	105.80	136.04	1,117.90	696.50	663.25		1,359.75	
W0161	Gravel Foundation Fill	m3	0.82	26.2%	13.0%	61.8%	38.8%	61.2%	391.00	80.73	41.75	198.14	124.43	196.19		320.62	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.87	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	65.19	2,163.78	426.33	1,508.42	1,146.88		2,655.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.64	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	66.73	0.83	355.58	190.55	232.57		423.12	
W0237	Concrete Curing (reinforced concrete)	m3	1.64	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.25	0.54	1.25	0.96	6.06		7.04	
W0241	Formwork (reinforced concrete H4m)	m2	6.93	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	938.87	621.90	12.34	45.59	1,827.82		1,873.11	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	182.10	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	656.80	3,272.14	332.21	2,294.65	1,966.49		4,261.14	
W3092	150mm Thick Concrete Hollow Block Wall	m2	19.52	12.7%	84.2%	3.0%	36.4%	63.6%	331.00	826.00	5,471.02	197.20	2,364.84	4,129.38		6,494.22	
W3011	Plain Cement Mortar Wall Finish	m2	21.78	9.1%	84.1%	6.8%	53.4%	46.6%	64.20	127.12	1,176.45	94.71	747.31	650.97		1,398.28	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00		0.00	0.0%
Total										3,012.30	13,138.11	4,494.08	9,094.40	11,550.08		20,614.48	
Components (%)										14.6%	63.6%	21.8%	44.1%	55.9%		100.0%	
Unit Rate										3,005.81	13,109.80	4,484.39	9,074.81	11,525.19		20,600.00	

W3017 Cyclone Fence and Gate for the Engineer's Office

3017	Cyclone Pence and Gate for the Engineer's Office										Unit: 40.00 m									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks					
				Component (%)						Component (PP)										
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)					
W0102	Excavation, Backhoe 0.35m3	m3	15.58	8.5%	8.4%	85.1%	51.8%	48.2%	49.40	50.03	64.56		399.73	370.92		769.65				
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1.12	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	8.60	15.39	80.28	53.61	60.66		104.27				
W0132	Backfill B	m3	14.46	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	124.89	160.68	1,319.58	822.16	782.90		1,605.03				
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	1.14	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	44.80	1,477.07	291.03	1,029.70	782.90		1,812.60	Loss 2.0%			
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	45.57	0.67	242.82	130.13	158.83		288.96				
W0237	Concrete Curing (reinforced concrete)	m3	1.12	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.58	0.37	0.85	0.67	4.13		4.80				
W0241	Formwork (reinforced concrete H4m)	m2	13.60	59.7%	39.5%	0.8%	2.9%	97.1%	227.00	1,842.51	1,220.48	24.21	89.47	2,997.73		3,087.20				
N08706	Steel Gas Pipe, 60	m	10.80	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		3,175.20				
N08704	Steel Gas Pipe, 60	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	1,579.78		3,949.40				
N02001	Reinforcing Bars, Grade 40	kg	19.50	0.0%	100.0%	0.0%	85.0%	35.0%	16.00	0.00	312.00	0.00	202.80	109.20		312.00				
N12101	Chain Link Fence Fabric	m	40.00	0.0%	100.0%	0.0%	60.0%	50.0%	1,480.00	0.00	59,400.00	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%	676.00	48.08	0.00	0.00	0.00	46.08		46.08				
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20		131.20				
L020	Unskilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	102.40	0.00	0.00	0.00	102.40		102.40				
	Miscellaneous	LS	1.00									0.00	0.00	0.00			0.0%			
Total										2,399.38	68,775.70	2,613.76	36,202.03	37,786.79		73,786.82				
Components (%)										3.3%	93.2%	3.5%	49.1%	50.9%		100.0%				
Unit Rate										59.83	1,714.99	65.18	902.73	937.27		1,840.00				

W3018 Barbed Wire Fence for the Engineer's Office

33016 Barbed Wire Fence for the Engineer's Office										Unit: 130.00 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	0.25	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	149.76	0.00	0.00	0.00	0.00	149.76	149.76	
L019	Skilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	426.40	0.00	0.00	0.00	0.00	426.40	426.40	
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	332.80	0.00	0.00	0.00	0.00	332.80	332.80	
N04001	Lumber	m3	0.84	0.0%	100.0%	0.0%	10.0%	90.0%	14,800.00	0.00	12,432.00	0.00	1,243.20	11,188.80	12,432.00		
N02062	Barbed Wire	m	1,060.80	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	2,652.00	0.00	928.20	1,723.80	2,652.00		Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	80.0%	50.0%		0.00	184.92	287.87	239.59	239.59	479.79		3.0%
Total										308.36	15,275.92	287.87	2,411.29	14,081.45	16,472.76		
Components (%)										5.5%	92.7%	1.7%	14.0%	85.4%	100.0%		
Unit Rate										7.01	117.77	2.22	18.59	108.41	127.00		
Miscellaneous covers the cost for minor materials, tools, etc.																	

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

W3101 Miscellaneous for Office & Living Quarter Maintenance

73101	Miscellaneous for Office & Living Quarter Maintenance										Unit:		24.00 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)	
	Flashlight	each	1.00	0.0%	0.0%	100.0%	60.0%	40.0%	235.00	0.00	0.00	235.00	141.00	94.00	235.00	
	Broom	each	4.00	0.0%	0.0%	100.0%	10.0%	90.0%	142.00	0.00	0.00	568.00	55.80	511.20	568.00	
	Man Rod with rag	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	
	Dust Pan	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	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	
	Mon Res	each	96.00	0.0%	100.0%	0.0%	15.0%	85.0%	65.00	0.00	6,240.00	0.00	936.00	5,304.00	6,240.00	4.0/month
	Laundry Detergent, 1.6kg	pack	40.80	0.0%	100.0%	0.0%	25.0%	75.0%	148.00	0.00	6,038.40	0.00	1,509.60	4,528.80	6,038.40	1.7/month
	Bathroom Cleaner, 500ml	bottle	14.40	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	792.00	0.00	237.60	554.40	792.00	0.6/month
	Power Cleanser, 350ml	bottle	21.60	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	496.80	0.00	149.04	347.76	496.80	0.6/month
	Electric Bulb, 60-100W	each	96.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	2,208.00	0.00	1,214.40	993.60	2,208.00	4.0/month
	Fluorescent Tube, 20W	each	72.00	0.0%	100.0%	0.0%	60.0%	40.0%	64.00	0.00	4,608.00	0.00	2,764.80	1,843.20	4,608.00	3.0/month
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	374.19	374.19	374.19	374.19	748.39	3.0%
Total										0.00	20,757.59	4,937.19	8,890.43	15,804.15	25,694.59	
Components (%)										0.0%	80.8%	19.2%	34.5%	65.4%	100.0%	
Unit Rate										0.00	864.40	205.60	370.22	699.78	1,070.00	

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

W3102 Furniture and Fixtures for Field Office

Furniture and Fixtures for Field Office										Unit: 1.00 L.S.									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total				
	Executive Desk	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,300.00	0.00	8,600.00	0.00	1,290.00	7,310.00	8,600.00				
	Office Desk	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,000.00	0.00	40,000.00	0.00	6,000.00	34,000.00	40,000.00				
	Drafting Table	each	1.00	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	2,200.00				
	Trolley Table	each	1.00	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	2,700.00				
	Computer Table	Unit	4.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,200.00	0.00	8,800.00	0.00	1,320.00	7,480.00	8,800.00				
	Conference Table	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	9,600.00	0.00	9,600.00	0.00	1,425.00	8,075.00	9,600.00				
	Executive Chair	each	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	7,200.00	0.00	14,400.00	0.00	2,880.00	11,400.00	14,400.00				
	Office Chair	each	15.00	0.0%	100.0%	0.0%	20.0%	80.0%	3,500.00	0.00	52,500.00	0.00	10,500.00	42,000.00	52,500.00				
	Stacking Chair	each	12.00	0.0%	100.0%	0.0%	15.0%	85.0%	700.00	0.00	8,400.00	0.00	1,260.00	7,140.00	8,400.00				
	Steel Cabinet, 8 drawers for drawpins	each	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	8,600.00	0.00	8,600.00	0.00	2,150.00	6,450.00	8,600.00				
	Steel Cabinet, 4 drawers	each	9.00	0.0%	100.0%	0.0%	20.0%	80.0%	5,400.00	0.00	48,600.00	0.00	9,720.00	38,880.00	48,600.00				
	Steel Cabinet (Locker), 2 doors	each	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,500.00	0.00	18,000.00	0.00	3,600.00	14,400.00	18,000.00				
	Table for Office Copier	each	1.00	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	2,700.00				
	Air Conditioning Unit, 5.0HP Floor mounted	Unit	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	80,000.00	0.00	60,000.00	0.00	42,000.00	18,000.00	80,000.00				
	Air Conditioning Unit, 2.5 HP Window Type	Unit	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	27,400.00	0.00	27,400.00	0.00	19,180.00	8,220.00	27,400.00				
	Venetian Blinds	m2	55.22	0.0%	100.0%	0.0%	65.0%	35.0%	293.00	0.00	16,179.46	0.00	10,516.65	5,662.81	16,179.46				
	Miscellaneous	L.S.	1.00	15.0%	5.0%	80.0%	60.0%	50.0%		492.87	328,743.75	2,628.84	1,542.09	1,542.09	3,205.79				
	Total									0.1%	99.1%	0.9%	34.5%	65.5%	100.0%				
	Component (%)									493.07	328,877.23	2,629.70	1,543.09	217,328.91	332,000.00				
	Unit Rate	L.S.																	

W3103 Equipment and Appliances for Field Office

WS1003 Equipment and Appliances for Field Office		Unit: 1.00 U.S.														
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
	Typewriter	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,600.00	0.00	6,800.00	0.00	4,950.00	1,850.00	6,600.00	
	Scientific Calculator	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	940.00	0.00	9,400.00	0.00	6,580.00	2,820.00	9,400.00	
	Desk Top Calculator	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	570.00	0.00	570.00	0.00	399.00	171.00	570.00	
	Drafting Instrument	set	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	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%	46,000.00	0.00	138,000.00	0.00	103,500.00	34,500.00	138,000.00	
	Color Laser Printer	set	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Magnetic Whiteboard	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,200.00	0.00	3,200.00	0.00	2,080.00	1,120.00	3,200.00	
	Camera	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,800.00	0.00	5,800.00	0.00	4,350.00	1,450.00	5,800.00	
	Electric Stand Fan	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	2,400.00	0.00	1,440.00	960.00	2,400.00	
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,100.00	0.00	4,200.00	0.00	2,100.00	2,100.00	4,200.00	
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,450.00	0.00	1,450.00	0.00	840.00	610.00	1,450.00	
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00	
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	30.0%	70.0%	490.00	0.00	980.00	0.00	294.00	686.00	980.00	
	Waste Paper Bin	each	9.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	900.00	0.00	135.00	765.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%	333.75	111.25	1,780.00	1,112.50	1,112.50	2,225.00	333.75	1.0%
	Total								334.16	222,893.66	1,782.18	164,315.33	60,693.67	225,000.00		
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%		
	Unit Rate								334.16	222,893.66	1,782.18	164,315.33	60,693.67	225,000.00		

Miscellaneous covers the cost for delivery, installation, etc.

W3105 Furniture and Fixtures for Living Quarter

#3105 Furniture and Fixtures for Living Quarter										Unit: 1.00 U.S.									
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks				
				Component (%)						Component (PP)									
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)			
	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%	10,600.00	0.00	21,200.00	0.00	3,180.00	18,020.00	21,200.00				
	Lounge Sofa Set (3+1+Center Table)	set	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	12,400.00	0.00	12,400.00	0.00	1,860.00	10,540.00	12,400.00				
	Cupboard	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	5,400.00	0.00	5,400.00	0.00	810.00	4,590.00	5,400.00				
	Air Conditioning Unit, 1.0 HP Window Type	Unit	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,300.00	0.00	42,900.00	0.00	32,175.00	10,725.00	42,900.00				
	Venetian Blinds	m2	57.68	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	1,072.21	1,072.21	2,144.49	1.0%			
	Total									321.67	214,556.00	1,715.59	69,171.51	147,421.76	218,593.27				
	Components (%)									0.1%	99.1%	0.8%	31.9%	68.1%	100.0%				
	Unit Rate	U.S.								322.28	214,958.91	1,718.81	69,351.41	147,698.59	217,000.00				

Miscellaneous covers the cost for delivery, installation, etc.

W3108 Equipment and Appliances for Living Quarter

#3108	Equipment and Appliances for Living Quarter										Unit: 1.00 U.S.									
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks						
				Component (%)					Total (PP)	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	2,097.00	11,683.00						
	Pillow	each	13.00	0.0%	100.0%	0.0%	10.0%	90.0%	230.00	0.00	2,990.00	0.00	299.00	2,691.00						
	Bed Sheets	each	52.00	0.0%	100.0%	0.0%	10.0%	90.0%	250.00	0.00	13,000.00	0.00	1,300.00	11,700.00	13,000.00					
	Pillow Cover	each	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	each	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	2,288.00	1,872.00	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	5,340.00	3,060.00						
	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	840.00	560.00	1,400.00					
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00					
	Tableware and Kitchenware	set	1.00	0.0%	100.0%	0.0%	30.0%	70.0%	11,000.00	0.00	11,000.00	0.00	3,300.00	7,700.00	11,000.00					
	Water Purifier/Filter System	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	3,300.00	0.00	3,300.00	0.00	2,475.00	825.00	3,300.00					
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	490.00	0.00	980.00	0.00	245.00	735.00	980.00					
	Waste Paper Bin	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	1,000.00	0.00	150.00	850.00	1,000.00					
	Shower Curtain	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	300.00	0.00	900.00	0.00	180.00	720.00	900.00					
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%	130.11	43.37	693.92	433.70	433.70	867.40	1.0%					
	Total								130.11	86,783.04	693.92	34,892.76	52,711.70	87,607.40						
	Components (%)								0.1%	99.1%	0.8%	73.0%	27.0%	100.0%						
	Unit Rate								130.10	86,778.04	693.86	34,892.76	52,707.25	87,600.00						

Miscellaneous covers the cost for delivery, installation, etc.

W3111 Office & Living Quarter Supplies

Office & Living Quarter Supplies										Unit: 1.00 U.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					
	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				
	Tape Dispenser	each	3.00	0.0%	100.0%	0.0%	60.0%	40.0%	270.00	0.00	810.00	0.00	486.00	324.00	810.00				
	Document Tray	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	100.00	0.00	300.00	0.00	60.00	240.00	300.00				
	Mechanical Pencil, 0.5mm	each	28.00	0.0%	100.0%	0.0%	50.0%	50.0%	36.00	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%	65.0%	35.0%	75.00	0.00	750.00	0.00	375.00	375.00	750.00				
	Convex, 3.5m	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	185.00	0.00	1,850.00	0.00	1,202.50	647.50	1,850.00				
	Measuring Tape, 50m steel	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	1,860.00	0.00	1,860.00	0.00	1,209.00	651.00	1,860.00				
	Steel Ruler, 600mm	each	1.00	0.0%	100.0%	0.0%	50.0%	50.0%	300.00	0.00	300.00	0.00	150.00	150.00	300.00				
	Level, L=600mm	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	540.00	0.00	540.00	0.00	378.00	162.00	540.00				
	Scissors	each	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	96.00	0.00	96.00	0.00	24.00	72.00	96.00				
	Paper Cutter	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	93.00	0.00	186.00	0.00	46.50	139.50	186.00				
	Steno Pad	each	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	33.00	0.00	66.00	0.00	13.20	52.80	66.00				
	Flashlight	each	9.00	0.0%	100.0%	0.0%	30.0%	70.0%	235.00	0.00	2,115.00	0.00	534.50	1,480.50	2,115.00				
	Miscellaneous	L.S.	1.00	15.0%	5.0%	80.0%	45.0%	55.0%	42.13	14.04	224.71	7.286.23	7,037.16	14,325.39	2.0%				
	Total Component (%)								0.3%	98.1%	1.6%	50.9%	48.1%	100.0%					
	Unit Rate	L.S.							42.06	14,033.63	224.31	7,275.31	7,024.69	14,300.00					

W3112 Office & Living Quarter Consumables

W3112 Office & Living Quarter Consumables				Unit: I.00 month										Remarks		
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount						
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local	Total (PP)
	Staple, No.35	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.30	0.00	14.30	0.00	3.88	10.43	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%	35.0%	65.0%	8.00	0.00	11.20	0.00	3.92	7.28	11.20	
	Mending Tape, 18mm x 25m	roll	4.00	0.0%	100.0%	0.0%	40.0%	60.0%	64.50	0.00	259.00	0.00	103.20	154.80	259.00	
	Mending Tape, 18mm x 20m	roll	0.50	0.0%	100.0%	0.0%	35.0%	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	825.00	2,475.00	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	39.60	356.40	396.00	
	Conv Paper, A4 size, 500 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	
	Transcriber Ribbon, Black/Red	each	1.00	0.0%	100.0%	0.0%	40.0%	60.0%	17.50	0.00	17.50	0.00	2.63	14.87	17.50	
	Envelope, Letter, long x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	19.50	0.00	429.00	0.00	42.90	386.10	429.00	
	Envelope, Letter, short x 20 sheets	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	13.00	0.00	286.00	0.00	28.60	257.40	286.00	
	Envelope, A4 size	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	35.00	0.00	385.00	0.00	38.50	346.50	385.00	
	Dry Battery, AA x 4 pcs	pack	6.00	0.0%	100.0%	0.0%	30.0%	70.0%	32.00	0.00	192.00	0.00	37.60	154.40	192.00	
	Paper Clip, 50g	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	
	Glue, Tube 30g	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	2.50	0.00	5.00	0.00	0.50	4.50	5.00	
	Fluores Disk, 1,44W 2W 3.5" x 10 pcs	each	3.00	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	0.33	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	tube	0.33	0.0%	100.0%	0.0%	65.0%	35.0%	7,500.00	0.00	2,475.00	0.00	1,606.75	868.25	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, 350g	bottle	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	140.00	0.00	420.00	0.00	63.00	357.00	420.00	
	Soap, 135g	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	1.5	1.00	15.0%	5.0%	80.0%	45.0%	55.0%	47.75	15.92	254.64	143.24	175.07	318.30	2.0%
	Total									47.75	15,931.12	254.64	5,776.82	10,458.58	16,233.50	
	Components (%)									0.3%	98.1%	1.6%	35.6%	64.4%	100.0%	
	Unit Rate	month								47.65	15,898.24	254.12	5,765.00	10,435.00	16,200.00	

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

W3501 Relocation of Existing Lighting Poles

9501		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							
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.54	27.7%	14.6%	57.7%	40.7%	59.3%	696.00	133.84	70.80	279.39	197.05	286.79	483.84						
W0106	Excavation, Backhoe 0.6m3 + Manpower	m3	2.39	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	35.66	9.43	97.83	59.39	83.53	142.92						
W0106	Excavation, Backhoe 0.6m3 + Manpower	m3	0.54	18.5%	12.9%	70.6%	45.8%	53.2%	139.00	12.28	9.59	52.85	34.84	39.68	74.82						
W0133	Disposal of Demolished Debris	m3	2.93	11.6%	11.6%	76.6%	49.3%	50.7%	145.00	49.39	50.18	325.28	209.51	215.34	424.85						
W0133	Backfill C	m3	3.15	4.5%	8.4%	87.1%	62.9%	47.1%	40.90	8.80	10.82	112.22	68.13	60.71	128.84						
W0105	Excavation, Backhoe 0.6m3	m3	0.52	8.2%	14.8%	77.0%	61.4%	48.6%	93.10	3.99	7.14	37.27	24.89	23.52	48.41						
W0111	Disposal of Surplus Soil (backhoe loadline)	m3	2.63	11.6%	11.6%	76.6%	49.3%	50.7%	145.00	44.33	45.04	291.98	188.06	193.29	381.35						
W0133	Backfill C	m3	0.05	25.2%	13.0%	61.8%	38.8%	61.2%	391.00	4.92	2.65	12.08	7.59	11.96	19.55						
W0161	Gravel Foundation Fill	m3	0.55	2.6%	81.5%	1.6%	66.8%	43.2%	1,590.00	21.47	712.62	140.41	496.78	377.72	874.50	Loss 2.0%					
W0293	Concrete (Class A, 24MPa, max size 38mm)	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	120.71	0.24	2.17	1.33	121.79	123.12						
W0236	Concrete Pouring by Manpower for small structures	m3	0.54	70.9%	8.7%	20.4%	18.0%	84.0%	9.02	3.45	0.42	0.99	0.78	4.09	4.67						
W0236	Concrete Curing (plain concrete)	m2	3.60	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	477.88	322.20	6.32	23.54	782.66	805.40						
W0240	Formwork (plain concrete 104m)	m2	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	218.68	0.00	0.00	0.00	218.68	218.68						
L002	Foreman	md	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	188.76	0.00	0.00	0.00	188.76	188.76						
L012	Electrician	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	240.00	0.00	0.00	0.00	240.00	240.00						
L020	Unskilled Labor	md	1.91	15.5%	9.3%	75.2%	46.9%	53.1%	485.00	143.88	85.35	698.05	435.76	492.50	928.26						
RC402-010	Truck Crane, Hydraulic 6-10t	hr	0.95	6.9%	2.0%	90.1%	54.1%	45.9%	1,190.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00						
QC405-013	Lift Car, 12-13m	hr	0.95	6.9%	2.0%	90.1%	54.1%	45.9%	1,190.00	77.66	33.43	1,009.91	606.23	514.77	1,121.00	8.0%					
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	49.64	49.64	149.04	298.08	248.40	248.40	496.81						
	Total									1,832.58	1,509.85	3,364.65	2,602.30	4,104.57	6,706.88						
	Components (%)									27.3%	22.6%	50.2%	38.8%	61.2%	100.0%						
	Unit Rate									1,833.43	1,510.35	3,365.22	2,603.51	4,106.49	6,710.00						

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

W3802 Relocation of Underground Conduit

93902 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		
W0106	Excavation, Backhoe 0.6m3 + Manpower	m3	72.00	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	1,074.17	284.23	2,947.20	1,789.25	2,516.35	4,305.60	
W0133	Backfill C	m3	72.00	11.6%	11.6%	76.6%	49.3%	50.7%	145.00	1,213.66	1,233.02	7,993.32	5,148.45	5,291.85	10,440.00	
W0162	Excavation, Backhoe 0.6m3	m3	72.00	4.5%	8.4%	87.1%	62.9%	47.1%	40.90	132.52	247.36	2,564.92	1,557.17	1,387.63	2,944.80	
W0162	Selected Sand Fill	m3	36.00	34.5%	15.1%	50.4%	32.9%	67.1%	277.00	3,438.91	1,807.58	8,025.51	3,276.66	6,695.34	9,972.00	
W0133	Backfill C	m3	36.00	11.6%	11.6%	76.6%	49.3%	50.7%	145.00	606.83	616.51	3,996.66	2,574.23	2,645.77	5,220.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	36.00	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	278.40	494.57	2,580.82	1,723.29	1,628.31	3,351.60	
M13051	Electric Cable	m	103.00	0.0%	100.0%	0.0%	55.0%	45.0%	82.30	0.00	6,416.90	0.00	3,829.30	2,887.61	6,416.90	Loss 3.0%
L002	Foreman	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	230.40	0.00	0.00	0.00	230.40		
L012	Electrician	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	1,115.40	0.00	0.00	0.00	1,115.40		
	Miscellaneous	LS	1.80	100.0%	30.0%	60.0%	50.0%	50.0%		44.20	131.89	263.98	219.98		419.98	1.0%
	Total									8,132.20	10,932.17	26,372.20	18,818.33	24,618.33	44,438.67	
	Component (%)									18.3%	24.6%	57.1%	44.6%	55.4%	100.0%	
	Unit Rate	m								81.26	109.23	253.51	198.02	245.98	444.00	

W3504 Relocation of Sewer Pipe

W3504 Relocation of Sewer Pipe				Unit Rate												Amount					Unit(s): 10.00 m		Remarks
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)								
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local									
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	22.87	24.5%	6.6%	68.2%	41.6%	58.4%	59.80	341.20	90.28	936.15	568.34	798.29	1,387.63	Loss 2.0%							
W0133	Backfill C	m3	22.87	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	385.51	391.66	2,538.99	1,638.35	1,880.80	3,316.15								
W0105	Excavation, Backhoe 0.61m3	m3	22.87	4.5%	8.4%	87.1%	52.9%	47.1%	40.80	42.09	78.57	814.72	494.82	440.76	935.38								
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	5.02	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	195.97	6,504.29	1,281.64	4,534.29	3,447.51	7,951.80								
W0235	Concrete Pouring by Manpower for small structures	m3	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,099.76	2.20	19.80	12.10	1,109.66	1,121.76								
W0236	Concrete Curing (plain concrete)	m3	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	31.48	3.87	9.03	7.10	37.28	44.38								
W0182	Selected Sand Fill	m3	8.86	34.6%	15.1%	50.4%	32.9%	87.1%	277.00	846.35	371.03	1,236.83	806.42	1,647.80	2,454.22								
W0133	Backfill C	m3	4.83	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	76.36	77.58	502.91	323.92	332.93	656.86								
W0111	Disposal of Surplus Soil (backhoe loading)	m3	18.34	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	140.81	251.96	1,314.68	877.92	829.53	1,707.46								
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ø610	m	10.00	10.4%	88.8%	21.2%	53.5%	46.5%	1,110.00	1,149.08	7,598.55	2,352.38	5,943.25	6,156.75	11,100.00								
W0342	Precast Concrete Pipe Laying ø610	m	10.00	46.0%	8.2%	45.8%	29.5%	70.5%	246.00	1,132.54	201.89	1,126.77	724.95	1,135.05	2,450.00								
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%							
Total										16.4%	15,871.69	12,132.78	15,028.26	17,217.36	33,145.82								
Components (%)										16.4%	47.0%	36.6%	48.1%	51.9%	100.0%								
Unit Rate			m							643.37	1,555.93	1,211.81	1,599.63	1,719.37	3,310.00								

W3511 Repair & Maintenance of Existing Access Road

35611 Repair & Maintenance of Existing Access Road										Unit: 100.00 m2							
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	Total (PP)		
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	0.00	960.00	960.00	
W0122	Crushed Aggregate, transported	m3	19.80	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	470.59	792.82	3,844.98	2,399.73	2,708.67	5,108.67	5,108.67	Loss 32.0%
R0307-000	Plate Connector	dav	0.85	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	117.35	546.65	372.62	290.38	663.00	663.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		181.55	323.11	323.11	484.86	807.77	807.77	12.0%	
	Total									1,592.15	1,233.28	4,713.74	3,095.46	4,443.71	7,539.17		
	Components (%)									21.1%	16.4%	62.5%	41.1%	58.9%	100.0%		
	Unit Rate	m2								15.92	12.33	47.14	39.86	44.44	75.40		

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

W4101 Environmental Compliance

W401 Environmental Compliance										Unit: 1.09 km						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	576.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00	
	Compensation	LS	1.00	50.0%	50.0%	0.0%	0.0%	100.0%	95,970.00	47,985.00	47,985.00	0.00	0.00	95,970.00	95,970.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		350.02	780.05	780.05	780.05	1,170.07	1,950.12	2.0%
	Total									49,911.02	48,765.05	780.05	780.05	98,676.07	99,456.12	
	Components (%)									50.2%	49.0%	0.8%	0.8%	99.2%	100.0%	
	Unit Rate	km								49,933.04	48,786.56	780.39	780.39	98,719.61	99,500.00	

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 = 228.50 PP/day
Affected duration = 7 days

W4111 Health and Safety Requirements

Health and Safety Requirements										Unit: 1.00 day						
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Total (PP)	Component (PP)						
				Lnb.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local	
	Health and safety Requirements	day	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	686.00	68.60	377.30	240.10	274.40	411.60	686.00	0.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									68.60	377.30	240.10	274.40	411.60	686.00	
	Components (%)									10.0%	55.0%	35.0%	40.0%	60.0%	100.0%	
	Unit Rate	day								68.60	377.30	240.10	274.40	411.60	686.00	

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

W4121 Overseas Development Assistance (ODA) Recognition Plate

W4121 Overseas Development Assistance (ODA) Recognition Plate										Unit:		1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0106	Excavation, Backhoe 0.6m ³ + Manpower	m ³	4.70	24.9%	6.6%	68.5%	41.6%	58.4%	59.80	70.12	18.85	192.39	116.80	164.26	281.06	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.60	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.61	8.24	43.01	28.72	27.14	65.86	
W0133	Backfill C	m ³	4.10	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	69.11	70.21	455.17	293.18	301.32	594.50	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	0.61	2.5%	81.5%	16.1%	56.8%	43.2%	1,590.00	23.81	790.36	155.73	650.88	418.92	969.90	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m ³	0.80	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	134.12	0.27	2.41	1.48	136.32	136.80	
W0236	Concrete Curing (plain concrete)	m ³	0.80	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.84	0.47	1.10	0.87	4.54	5.41	
W0240	Formwork (plain concrete H4m)	m ²	4.80	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	637.17	429.80	8.43	31.39	1,043.81	1,075.20	
W07201	Traffic Sign Board (aluminum)	m ²	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	63,281.60	28,690.20	81,972.00	
M08708	Steel Gas Pipe, ø125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	803.00	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%	576.00	63.36	0.00	0.00	0.00	63.36	63.36	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	118.40	0.00	0.00	0.00	118.40	118.40	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		546.44	1,090.87	1,090.87	1,363.59	1,363.59	2,727.18	3.0%
	Total									1,669.97	90,014.18	1,949.12	59,048.96	34,584.32	93,633.27	
	Components (%)									1.8%	96.1%	2.1%	83.1%	36.9%	100.0%	
	Unit Rate	each								1,669.98	89,982.20	1,949.43	59,027.97	34,572.03	93,600.00	

Miscellaneous covers the costs for fixtures, paints, etc.