

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	6.7%	23.3%	70.0%	47.4%	52.6%	168.00	
W0122	Crushed Aggregate, transported	m3	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	
W0123	Excavated Soil, transported	m3	7.2%	13.0%	79.7%	51.8%	48.2%	60.30	
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%	81.0%	16.4%	56.6%	43.4%	1,450.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	2.9%	78.5%	18.6%	56.3%	43.7%	1,340.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.4%	82.4%	15.2%	56.9%	43.1%	1,570.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.3%	83.5%	14.2%	57.0%	43.0%	1,640.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.2%	84.1%	13.7%	57.1%	42.9%	1,660.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	2.2%	83.9%	13.9%	57.8%	42.2%	1,720.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.0%	85.1%	12.8%	58.0%	42.0%	1,800.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.8%	87.2%	11.0%	58.4%	41.6%	2,090.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.6%	80.4%	17.0%	57.3%	42.7%	1,470.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	
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%	67.0%	23.2%	53.5%	46.5%	521.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 610 (24")	m	10.0%	67.2%	22.8%	53.4%	46.6%	869.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 760 (30")	m	10.2%	67.3%	22.5%	53.4%	46.6%	1,280.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 910 (36")	m	10.6%	67.7%	21.7%	53.4%	46.6%	1,970.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1070 (42")	m	10.7%	67.7%	21.7%	53.4%	46.6%	2,580.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1220 (48")	m	10.6%	67.7%	21.7%	53.4%	46.6%	3,240.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication ϕ 1520 (60")	m	10.7%	67.7%	21.7%	53.4%	46.6%	4,850.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 460 (18")	m	10.5%	68.9%	20.6%	53.5%	46.5%	576.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 610 (24")	m	10.5%	68.8%	20.7%	53.5%	46.5%	945.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 760 (30")	m	10.3%	68.7%	20.9%	53.6%	46.4%	1,320.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 910 (36")	m	11.0%	69.0%	20.0%	53.5%	46.5%	2,130.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1070 (42")	m	10.9%	69.0%	20.1%	53.5%	46.5%	2,680.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1220 (48")	m	10.9%	69.0%	20.1%	53.5%	46.5%	3,470.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ 1520 (60")	m	10.9%	69.0%	20.0%	53.5%	46.5%	5,170.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 460 (18")	m	10.5%	68.8%	20.7%	53.5%	46.5%	743.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 610 (24")	m	10.4%	68.7%	20.9%	53.6%	46.4%	1,100.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 760 (30")	m	10.5%	68.8%	20.7%	53.5%	46.5%	1,640.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication ϕ 910 (36")	m	10.9%	68.7%	20.4%	53.4%	46.6%	2,620.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1070 (42")	m	11.3%	68.9%	19.8%	53.4%	46.6%	3,940.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1220 (48")	m	10.9%	68.7%	20.4%	53.5%	46.5%	4,290.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ϕ 1520 (60")	m	11.3%	68.7%	19.9%	53.4%	46.6%	7,450.00	
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%	1,460.00	
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	m ³ ·d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.5%	50.3%	49.7%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	77.80	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.8%	75.4%	50.3%	49.7%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.8%	14.9%	75.3%	50.3%	49.7%	85.80	
W0501	Ground Assembly of Structural Steel Bridge	t	11.6%	3.1%	85.3%	48.2%	51.8%	1,270.00	
W0502	Erection of Structural Steel Bridge Members	t	11.0%	4.8%	84.2%	48.3%	51.7%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.5%	93.2%	2.3%	66.1%	33.9%	43.70	
W0504	Finish Painting of Structural Steel Bridge	m ²	42.5%	48.4%	9.1%	36.1%	63.9%	133.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.6%	91.3%	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%	334.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	501.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	6.0%	93.8%	0.2%	64.9%	35.1%	935.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.4%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.9%	94.9%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.3%	91.5%	0.2%	62.7%	37.3%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	95.9%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.6%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.5%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.4%	1.7%	70.6%	29.4%	2,070.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	6.0%	75.9%	18.1%	55.4%	44.6%	2,080.00	
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 M W < 15.0t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	231.00	
W0553	Precast PC Girder Erection (15.0 M W < 17.5t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	219.00	
W0554	Precast PC Girder Erection (17.5 M W < 20t)	t	21.6%	3.4%	75.0%	43.0%	57.0%	199.00	
W0555	Precast PC Girder Erection (20.0 M W < 35.0 t)	t	15.5%	3.6%	80.9%	46.3%	53.7%	214.00	
W0556	Precast PC Girder Erection (35.0 M W < 60.0 t)	t	7.5%	1.8%	90.8%	50.5%	49.5%	378.00	
W0557	Precast PC Girder Erection (60.0 M W < 75.0 t)	t	6.3%	1.8%	91.9%	51.1%	48.9%	424.00	
W0558	Precast PC Girder Erection (75.0 M 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	14.6%	63.0%	22.5%	50.2%	49.8%	3,020.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	15.0%	62.5%	22.5%	49.9%	50.1%	2,880.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	15.0%	62.3%	22.7%	49.9%	50.1%	2,840.00	
W0611	Stone Laying	m ³	10.0%	14.3%	75.7%	47.5%	52.5%	379.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m ³	34.7%	17.7%	47.6%	35.2%	64.8%	428.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.7%	44.4%	30.9%	39.0%	61.0%	7,880.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m ³	29.5%	29.9%	40.5%	37.3%	62.7%	173.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.9%	29.1%	46.0%	39.7%	60.3%	8,370.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m ³	28.4%	28.6%	43.0%	37.8%	62.2%	180.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m ³	21.7%	40.5%	37.9%	41.1%	58.9%	94.20	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m ³	30.1%	28.7%	41.2%	37.1%	62.9%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.7%	17.7%	58.6%	40.9%	59.1%	337,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,120.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	5,070.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	116.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.7%	84.3%	4.1%	60.3%	39.7%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	1.0%	92.4%	6.7%	70.9%	29.1%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.4%	87.4%	6.2%	68.3%	31.7%	9,570.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.4%	84.5%	4.1%	60.5%	39.5%	153,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.1%	86.6%	8.3%	67.0%	33.0%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.5%	23.3%	36.3%	34.4%	65.6%	829.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0682	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Transversal)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	5.8%	91.0%	3.2%	64.8%	35.2%	158,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	2.5%	92.0%	5.5%	70.4%	29.6%	1,820.00	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	16.6%	71.2%	12.2%	59.7%	40.3%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	91.2%	7.6%	63.0%	37.0%	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	4.2%	91.1%	4.6%	60.8%	39.2%	187.00	
W0704	Precast Concrete Cover (680x580x75),	each	89.3%	0.0%	10.7%	5.4%	94.6%	10.50	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.1%	86.0%	5.9%	62.9%	37.1%	58.50	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	8.7%	85.4%	5.9%	62.4%	37.6%	54.50	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	38.7%	54.6%	6.7%	38.7%	61.3%	30.60	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	9.1%	89.9%	1.0%	63.1%	36.9%	1,140.00	
W0731	Rubble Concrete	m3	6.2%	51.5%	42.2%	52.5%	47.5%	923.00	
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%	20.6%	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%	69.6%	6.0%	46.0%	46.6%	414.00	
W0871	Guardrail Type A, furnish	m	8.0%	78.8%	13.2%	59.1%	40.9%	903.00	
W0872	Guardrail Type B, furnish	m	9.3%	76.4%	14.3%	58.0%	42.0%	708.00	
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	7.1%	81.6%	11.3%	60.1%	39.9%	876.00	
W0911	Digging Out Tree, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	18.90	
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	36.30	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	64.20	
W0921	Tree Haulage, Low Tree H≤1.5m	each	13.7%	19.2%	67.1%	48.9%	51.1%	23.20	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	45.60	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	13.7%	19.2%	67.1%	48.9%	51.1%	78.00	
W0931	Tree Planting, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	9.27	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	27.70	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	115.00	
W0951	Precast Curbstone for Planter Square, Furnish	m	13.4%	70.0%	16.6%	49.8%	50.2%	45.70	
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	13.8%	72.0%	14.2%	51.7%	48.3%	246.00	
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%	68.2%	18.5%	47.0%	53.0%	361.00	
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%	21,100.00	
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	12.4%	53.0%	34.6%	53.6%	46.4%	9,400.00	
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	12.8%	51.8%	35.4%	53.1%	46.9%	9,050.00	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	13.0%	51.1%	35.8%	52.9%	47.1%	8,890.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.5%	60.5%	29.0%	56.5%	43.5%	16,500.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.2%	61.2%	28.6%	56.8%	43.2%	17,100.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	28.2%	7.7%	64.1%	39.7%	60.3%	102,000.00	
W2002	Transportation of Disassembled Equipment	LS	4.4%	10.2%	85.3%	53.0%	47.0%	144,000.00	
W2003	Other Equipment & Material Haulage	LS	9.1%	15.3%	75.6%	50.9%	49.1%	81,300.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	2,050,000.00	
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%	67.1%	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%	63.7%	21.7%	44.0%	56.0%	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%	85.9%	14.1%	34.4%	65.6%	1,010.00	
W3102	Furniture and Fixtures for Field Office	L. S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L. S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L. S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L. S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L. S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L. S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L. S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US\$1.50 million
W3501	Relocation of Existing Lighting Poles	each	27.4%	22.5%	50.1%	38.8%	61.2%	6,690.00	
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	16.5%	47.1%	36.4%	48.0%	52.0%	3,290.00	
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%	400,000.00	

6. Breakdown of Basic Work Cost

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

W0001 Grass Cutting											Unit: 1,000.00 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	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	476.00	218.88	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	897.00	0.00	0.00	0.00	897.00	897.00	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	96.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	10.12	91.07	50.59	80.59	101.19	10.0%
Total									1,011.88	10.12	91.07	50.59	1,062.47	1,113.07		
Components (%)									90.9%	0.9%	8.2%	4.5%	95.5%	100.0%		
Unit Rate			m ²						1.01	0.01	0.09	0.05	1.06	1.11		

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

W0002 Tree Cutting											Unit: 1,000.00 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	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	184.32	0.00	0.00	0.00	184.32	184.32	
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	471.50	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	204.80	204.80	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	6.98	61.98	34.42	34.42	98.85	8.0%
Total									1,306.80	6.98	61.98	34.42	595.04	1,999.47		
Components (%)									92.6%	0.7%	6.7%	3.7%	96.3%	100.0%		
Unit Rate			m ²						0.85	0.01	0.06	0.03	0.89	0.93		

Miscellaneous covers the cost for chain saw, etc.

W0003 Grubbing											Unit: 1,000.00 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	0.17	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
R0101-018	Tractor, crawler w/doser (Skidsteer, 15t)	hr	6.40	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	818.40	1,347.84	15,413.76	9,258.48	8,021.54	17,280.00
R0102-001	Backhoe, hydraulic, crawler, 0.61m3	hr	4.30	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	336.69	628.49	6,816.82	3,956.38	3,526.62	7,482.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00	0.0%
Total									1,007.41	1,976.33	21,939.58	13,214.81	11,639.48	31,914.32	
Components (%)									4.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
Unit Rate			m ²						1.01	1.98	21.92	13.21	11.64	24.90	

W0004 Burning											Unit: 1,000.00 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	0.55	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	Miscellaneous	LS	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	403.20	0.00	0.00	0.00	403.20	403.20
Total									1,296.00	0.00	0.00	0.00	0.00	1,296.00	1,296.00
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate			m ²						1.94	0.00	0.00	0.00	1.94	1.94	

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

W0011 Demolition by Crawler Drill (Lightly Reinforced Structures)											Unit: 10.00 m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	256.00	0.00	0.00	0.00	256.00	256.00	
R0202-000	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	516.00	0.00	0.00	1,295.00	703.04	591.66	1,295.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.50	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	195.75	365.40	2,308.65	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	27.85	61.89	1.0%
Total									1,397.75	396.35	3,114.80	3,037.30	3,213.59	6,250.89		
Components (%)									11.8%	6.3%	81.2%	48.6%	51.4%	100.0%		
Unit Rate			m ³						13.96	39.63	311.41	303.63	321.31	625.00		

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

W0012 Demolition by Crawler Drill (Heavily Reinforced Structures)											Unit: 10.00 m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	356.30	0.00	0.00	0.00	356.30	356.30	
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	544.00	0.00	0.00	0.00	544.00	544.00	
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	516.00	0.00	0.00	2,538.20	1,377.95	1,640.25	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	716.19	7,426.15	4,808.43	4,017.57	8,526.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	246.20	246.20	272.82	221.58	492.40	4.0%
Total									1,629.57	962.39	10,210.53	6,157.21	6,645.30	12,802.50		
Components (%)									12.7%	7.5%	79.8%	48.1%	51.9%	100.0%		
Unit Rate			m ³						162.93	96.24	1,020.86	615.60	664.40	1,280.00		

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

W0013 Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)											Unit: 10.00 m ³					
Item No.	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	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	921.60	0.00	0.00	0.00	921.60	921.60	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	246.00	0.00	0.00	0.00	246.00	246.00	
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,312.00	0.00	0.00	0.00	1,312.00	1,312.00	
R0204-020	Pneumatic Breaker, Handhold	dav	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 126-160 cfm (3.6-4.5m ³ /min)	day	2.10	0.0%	27.8%	72.2%	57.2%	42.8%	2,080.00	0.00	1,220.14	3,168.88	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	96.87	79.09	175.76	2.0%
Total									2,479.60	1,308.02	5,176.14	3,650.69	5,313.07	8,963.76		
Components (%)									27.7%	14.6%	57.7%	40.7%	59.3%	100.0%		
Unit Rate			m ³						247.88	130.78	517.40	364.92	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 m ³				
Item No.	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
L008	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	356.30	0.00	0.00	0.00	356.30	356.30
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,854.00	0.00	0.00	0.00	3,854.00	3,854.00
L020	Unskilled Labor	md	8.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,808.00	0.00	0.00	0.00	2,808.00	2,808.00
R0204-020	Pneumatic Breaker, Handhold	dav	5.80	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	2,650.60	1,439.10	1,211.50	2,650.60
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m ³ /min)	day	2.90	0.0%	27.8%	72.2%	57.2%	42.8%	2,080.00	0.00	1,684.96	4,376.04	3,468.84	2,592.16	6,061.00
	Miscellaneous	LS	1.00	0.0%	50.0%										

#0016 Excavation of Gravel Pavement

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)	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.59	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	40.20	85.23	894.17	542.85	483.75	1,026.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								40.20	85.23	894.17	542.85	483.75	1,026.60	
	Components (%)								4.5%	8.4%	87.1%	52.9%	47.1%	100.0%	
	Unit Rate	m3							6.46	0.87	8.87	5.45	4.85	10.30	

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

#0025 Disposal of Demolished Debris

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	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	
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	287.62	229.58	487.20
R0601-006	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%	804.00	76.67	136.23	547.95	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 (%)								10.5%	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) = 35.4 m3/h
 Q : Excavation Volume per hour = 35.4 m3/h
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30 sec
 Q = q * f * E / Cm (Dump Truck) = 7.91 m3/hr
 Q : Transportation Volume per hour = 7.91 m3/hr
 q : Loading Capacity of a Truck = 5.30 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm : Cycle Time = A + 2 * L / V = 0.60 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance to Disposal Point = 5.00 km

#0101 Excavation, Bulldozer 21t

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	40.60	205.55	2,291.45	1,377.19	1,160.41	2,537.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								40.60	205.55	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	22.94	13.78	11.62	25.40	

Q = 60 * q * f * E / Cm
 Q : Excavation capacity per hour = 164.04 m3/hr
 q : Standard capacity per cycle = 2.80 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.90
 Cm : Cycle Time = 0.027 * L + 0.78 = 0.93 min
 L : Average pushing distance = 5.00 m

#0102 Excavation, Backhoe 0.35m3

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)	
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
	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							3.21	4.15	42.04	25.58	23.81	49.40	

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

#0105 Excavation, Backhoe 0.81m3

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)	
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	3,561.52	2,162.21	1,926.79	4,089.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								184.01	343.48	3,561.52	2,162.21	1,926.79	4,089.00	
	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
 q : Standard capacity per cycle = 0.69 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30.00 sec

#0106 Excavation, Backhoe 0.81m3 + Manpower

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	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	
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	221.38	459.90
	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	349.38	597.60	
	Components (%)								14.9%	6.6%	68.5%	41.6%	68.4%	100.0%	
	Unit Rate	m3							14.92	3.95	40.93	24.85	34.95	59.50	

Q = 3600 * q * f * E / Cm
 Q : Excavation capacity per hour = 42.48 m3/hr
 q : Standard capacity per cycle = 0.69 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30.00 sec

#0107 Excavation, Classhell + Backhoe

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)	
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	
Q0106-006	Classshell, crawler, 0.6m3	hr	2.90	2.9%	8.3%	88.8%	56.2%	43.8%	2,330.00	198.86	860.90	5,987.23	3,799.69	2,957.31	6,757.00
R0102-010	Backhoe, hydraulic, crawler, 0.11m3	day	0.50	10.3%	8.5%	81.2%	49.8%	50.4%	4,170.00	214.76	177.23	1,683.02	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%	6.1%	83.9%	52.8%	47.2%	100.0%	
	Unit Rate	m3							7.33	7.58	76.89	48.32	42.89	91.60	

Q = 3600 * q * f * E / Cm
 Q : Excavation capacity per hour = 42.48 m3/hr
 q : Standard capacity per cycle = 0.69 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30.00 sec

#0108 Excavation, Backhoe 0.61m3 + Crawler Drill

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)	
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
R0202-000	Crawler Drill	hr	0.82	0.0%	0.0%	100.0%	84.3%	45.7%	515.00	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 (%)								3.5%	6.5%	90.1%	52.2%	46.8%	100.0%	
	Unit Rate	m3							6.42	11.98	165.61	98.42	86.58	185.00	

Q = 3600 * q * f * E / Cm
 Q : Excavation capacity per hour = 42.48 m3/hr
 q : Standard capacity per cycle = 0.69 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30.00 sec

#0109 Excavation, Manpower

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	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	
	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	0.00	1,344.00	
	Components (%)								100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate	m3							134.00	0.00	0.00	0.00	0.00	134.00	

Q = 3600 * q * f * E / Cm
 Q : Excavation capacity per hour = 42.48 m3/hr
 q : Standard capacity per cycle = 0.69 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 Cm : Cycle Time = 30.00 sec

W0111 Disposal of Surplus Soil (backhoe loading)

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	258.70	2,682.51	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	10.31	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	628.95	1,114.88	4,469.61	3,156.83	3,070.41	8,227.24	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								767.54	1,373.58	7,166.12	4,785.39	4,521.65	9,307.04		
	Components (%)								8.2%	14.9%	77.0%	51.4%	48.6%	100.0%		
	Unit Rate	m3							7.68	13.74	71.68	47.87	45.22	93.10		

Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour Q : Transportation Volume per hour
 q : Excavation Volume per Cycle q : Loading Capacity of a Truck
 f : Volume Coefficient f : Volume Coefficient
 E : Efficiency E : Efficiency
 Cm : Cycle Time Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed V : Vehicle speed
 a : Loading time a : Loading time
 L : Average Distance to Disposal Point L : Average Distance to Disposal Point

W0115 Disposal of Surplus Soil (manpower loading)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00		
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	62.83	111.36	447.93	315.38	306.74		
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00			
	Total								478.83	111.36	447.93	315.38	306.74			
	Components (%)								45.1%	10.7%	43.1%	30.4%	69.6%	100.0%		
	Unit Rate	m3							47.87	11.16	44.87	31.53	30.67			

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour Q : Loading Capacity of a Truck
 q : Loading Capacity of a Truck q : Loading Capacity of a Truck
 f : Volume Coefficient f : Volume Coefficient
 E : Efficiency E : Efficiency
 Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed V : Vehicle speed
 a : Loading time a : Loading time
 L : Average Distance to Disposal Point L : Average Distance to Disposal Point

W0121 Borrow Soil, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
M03001	Quarry Royalty (Borrow Soil)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.88	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	147.20	274.78	2,849.22	1,729.77	1,541.43		
R0601-009	Dump Truck, 9.0-12.0 cu-yds (6.9-9.2m3)	hr	15.94	8.1%	17.8%	74.1%	51.8%	48.2%	767.00	977.39	2,147.85	8,941.34	6,294.98	5,811.60		
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00			
	Total								1,124.60	3,922.63	11,790.55	7,984.75	6,853.03			
	Components (%)								6.7%	23.3%	70.0%	47.4%	52.6%	100.0%		
	Unit Rate	m3							11.22	39.14	117.64	79.67	68.33			

Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour Q : Transportation Volume per hour
 q : Excavation Volume per Cycle q : Loading Capacity of a Truck
 f : Volume Coefficient f : Volume Coefficient
 E : Efficiency E : Efficiency
 Cm : Cycle Time Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed V : Vehicle speed
 a : Loading time a : Loading time
 L : Average Distance to Disposal Point L : Average Distance to Disposal Point

W0122 Crushed Aggregate, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
M03003	Quarry Royalty (Aggregate)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,694.65	2,312.15		
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	1,120.00		
R0716-010	Aggregate Crusher 100t/hr	hr	2.24	0.0%	5.6%	94.5%	54.1%	45.9%	2,700.00	0.00	332.64	5,716.36	3,272.89	2,776.11		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	220.81	412.17	4,273.82	2,694.65	2,312.15		
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	11.38	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		
	Miscellaneous	LS	1.00	25.0%	25.0%	50.0%	40.0%	60.0%	604.00	196.72	283.43	202.74	304.12			
	Total								2,381.33	1,011.90	9,456.87	12,143.27	13,785.84			
	Components (%)								9.2%	15.5%	75.3%	47.0%	55.0%	100.0%		
	Unit Rate	m3							23.77	40.04	194.19	121.20	138.80			

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

W0123 Excavated Soil, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	138.59	258.70	2,682.51	1,628.56	1,451.24		
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	4.88	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	297.70	527.81	2,122.21	1,494.21	1,453.31		
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00			
	Total								436.29	786.51	4,804.72	3,122.77	2,904.55			
	Components (%)								7.2%	13.0%	79.7%	51.8%	48.2%	100.0%		
	Unit Rate	m3							4.36	7.87	48.07	31.24	29.05			

Q = 3600-q·f·E/Cm (Backhoe) Q = q·f·E/Cm (Dump Truck)
 Q : Excavation Volume per hour Q : Transportation Volume per hour
 q : Excavation Volume per Cycle q : Loading Capacity of a Truck
 f : Volume Coefficient f : Volume Coefficient
 E : Efficiency E : Efficiency
 Cm : Cycle Time Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed V : Vehicle speed
 a : Loading time a : Loading time
 L : Average Distance from Quarry L : Average Distance from Quarry

W0126 Selected Sand, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)			Total			Component (PP)			Total			
				Lab.	Mat.	Equip.	For.	Local	PP	Labor	Material	Equipment	Foreign	Local	PP	
M03002	Quarry Royalty (Sand, Pebbles)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	169.91	317.17	3,288.72	1,996.59	1,779.21		
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			
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	169.91	317.17	3,288.72	1,996.59			
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	10.16	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	619.80	1,098.56	4,418.98	3,110.90			
	Miscellaneous	LS	1.00	20.0%	30.0%	60.0%	40.0%	60.0%	604.00	85.23	97.85	163.08	193.47			
	Total								2,144.86	3,330.64	11,158.91	7,234.56	6,399.65			
	Components (%)								12.9%	20.0%	67.1%	43.5%	56.5%	100.0%		
	Unit Rate	m3							21.40	33.24	111.36	72.20	63.80			

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour Q : Transportation Volume per hour
 q : Loading Capacity of a Truck q : Loading Capacity of a Truck
 f : Volume Coefficient f : Volume Coefficient
 E : Efficiency E : Efficiency
 Cm : Cycle Time = A + 2·L/V
 V : Vehicle speed V : Vehicle speed
 a : Loading time a : Loading time
 L : Average Distance from Quarry L : Average Distance from Quarry

W0129 Gravel/Stone, transported

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)	
M03004	Quarry Royalty (Gravel/Stone)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	1,500.00	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	4,273.62	2,594.65	2,312.15	4,908.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	1,190.00	
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	4,273.62	2,594.65	2,312.15	4,908.80	
R0601-008	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%	604.00	693.01	1,228.20	4,840.24	3,478.33	3,383.11	6,861.44	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	77.18	115.77	192.95	154.36	231.64	385.90	2.0%	
	Total								2,331.80	3,668.31	13,680.83	8,821.99	10,838.96	15,680.94		
	Components (%)								11.8%	18.6%	69.5%	44.8%	55.2%	100.0%		
	Unit Rate	m3							23.34	36.72	136.94	88.31	108.69	197.00		

Miscellaneous covers the costs for gloves, screens, washing, minor tools, etc.
 Q = 3600*F/E/Cm (Backhoe)
 Q = Excavation Volume per hour = 6.80 m3/hr
 q = Excavation Volume per Cycle = 0.53 m3
 F = Volume Coefficient = 1.00
 E = Efficiency = 0.50
 Cm: Cycle Time = A + 2*L/V = 30 sec
 V = Vehicle speed = 30.00 km/hr
 L = Loading time = 0.27 hr
 L = Average Distance from Quarry = 5.00 km

W0131 Backfill A

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	156.60	292.32	3,031.08	1,840.18	1,639.82	3,480.00	
R0101-016	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	2.00	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	162.00	421.20	4,816.80	2,893.27	2,506.73	5,400.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								318.60	713.52	7,847.88	4,733.44	4,146.56	8,880.00		
	Components (%)								3.6%	8.0%	88.4%	53.3%	46.7%	100.0%		
	Unit Rate	m3							3.19	7.14	78.48	47.33	41.47	88.80		

W0132 Backfill B

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	1.72	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	350.40	0.00	0.00	0.00	350.40	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	2,578.26	2,295.75	4,872.00	
R0101-016	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.20	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	97.20	252.72	2,890.08	1,735.98	1,504.04	3,240.00	
R0307-000	Plate Compactor	dav	3.12	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	430.75	2,002.85	1,367.75	1,065.85	2,433.60	
R0308-006	Vibration Rammer, 6in	dav	0.28	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.85	23.39	26.40	17.84	44.24	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								866.64	1,114.67	9,158.53	5,705.38	5,438.98	11,140.24		
	Components (%)								7.8%	12.0%	82.2%	51.2%	48.2%	100.0%		
	Unit Rate	m3							6.64	11.11	91.28	56.88	54.14	111.00		

W0133 Backfill C

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	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	319.20	594.64	6,062.16	3,680.45	3,279.65	6,960.00	
R0307-000	Plate Compactor	dav	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,078.87	5,007.13	3,419.35	2,664.64	6,084.00	
R0308-006	Vibration Rammer, 6in	dav	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	54.64	65.98	64.00	44.60	110.60	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								1,689.20	1,716.14	11,125.26	7,165.72	7,364.88	14,530.60		
	Components (%)								11.6%	11.8%	76.6%	49.3%	50.7%	100.0%		
	Unit Rate	m3							16.89	17.13	111.02	71.51	73.49	145.00		

W0134 Backfill D

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	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	6.00	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	469.80	876.99	9,093.24	5,820.63	4,919.47	10,440.00	
R0307-000	Plate Compactor	dav	8.00	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,104.48	5,105.62	3,607.04	2,732.96	6,240.00	
R0308-006	Vibration Rammer, 6in	dav	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	845.36	559.64	660.02	445.98	1,108.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								2,709.80	2,527.80	14,788.40	9,897.69	10,338.11	20,028.00		
	Components (%)								13.5%	12.6%	73.8%	48.4%	48.4%	100.0%		
	Unit Rate	m3							27.09	25.28	147.69	96.75	103.25	200.00		

W0135 Backfill, Manpower + Compactor

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	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
R0307-000	Plate Compactor	dav	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.66	124.80	
R0308-006	Vibration Rammer, 6in	dav	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								608.00	49.16	124.30	95.60	678.86	776.46		
	Components (%)								78.4%	6.6%	16.0%	12.3%	87.7%	100.0%		
	Unit Rate	m3							80.78	4.31	12.42	9.65	87.95	77.60		

W0141 Filling & Laying, bulldozer 15t

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)	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.02	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	82.82	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	0.0%	
	Total								82.82	214.81	2,456.57	1,475.57	1,278.43	2,754.00		
	Components (%)								3.3%	7.8%	89.2%	53.6%	46.4%	100.0%		
	Unit Rate	m3							0.83	2.15	24.54	14.73	12.77	27.50		

Q = 10 * E * (13 * D + 9)
 Q = Filling Volume per hour = 96 m3/hr
 E = Efficiency = 0.80
 D = Layer thickness = 0.260 m

W0142 Filling & Laying, bulldozer 21t

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)	
R0101-021	Tractor, crawler w/dozer (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	1,350.84	2,953.60	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								47.26	239.24	2,667.10	1,602.96	1,350.84	2,953.60		
	Components (%)								1.6%	8.1%	90.3%	54.3%	45.7%	100.0%		
	Unit Rate	m3							0.47	2.39	26.64	16.01				

W0146 Compaction, bulldozer 21t Unit: 100.00 m3

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

Q = V-W-D-E/N
 Q : Compaction Volume per hour = 157.5 m3/hr
 V : Compaction speed = 3600 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.80
 N : Number of Compaction = 4 times

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.53	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00	45.94	83.53	914.63	550.54	493.85	1,044.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								45.94	83.53	914.63	550.54	493.85	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	5.45	4.92	10.40	

Q = V-W-D-E/N
 Q : Compaction Volume per hour = 189 m3/hr
 V : Compaction speed = 3500 m/hr
 W : Effective compaction width = 1.800 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.80
 N : Number of Compaction = 5 times

W0148 Compaction, tamper Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	96.00	0.00	0.00	0.00	96.00	
R0306-006	Vibration Rammer, 6in	dev	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	168.00	0.00	21.07	21.59	25.46	17.20	
R0307-000	Plate Compactor	dev	0.60	0.0%	17.7%	82.3%	58.2%	43.8%	780.00	0.00	110.45	513.85	350.70	273.30	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								96.00	131.52	535.14	376.16	366.50	762.66	
	Components (%)								12.6%	17.2%	70.2%	49.3%	50.7%	100.0%	
	Unit Rate	m3							9.60	13.15	53.51	37.62	36.65	76.27	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/doser (Bulldozer, 21t)	hr	1.35	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00	89.88	454.80	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	
	Total								89.88	454.80	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	4.53	50.75	30.60	25.70	56.20	

Q = Q1*Q2/(Q1+Q2)
 Q1 = V-W-D-E/N
 Q1 : Compaction Volume per hour = 157.5 m3/hr
 V : Compaction speed = 3,500 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.80
 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
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	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	5,157.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00	
	Components (%)								3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3							1.65	4.02	46.00	27.63	23.94	51.57	

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

W0151 Slope Formation by Bulldozer Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	
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	
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	3,371.76	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	
	Total								299.00	294.84	3,371.76	2,025.29	1,910.31	3,965.60	
	Components (%)								7.5%	7.4%	85.0%	51.1%	48.9%	100.0%	
	Unit Rate	m2							2.99	2.95	33.70	20.25	19.42	39.70	

W0152 Slope Formation by Backhoe Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	
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	
R0102-001	Backhoe, hydraulic, crawler, 0.61m3	hr	2.60	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00	203.58	380.02	3,940.40	2,392.23	2,131.77	4,524.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								485.18	380.02	3,940.40	2,392.23	2,131.77	4,805.60	
	Components (%)								10.1%	7.9%	82.0%	49.6%	50.2%	100.0%	
	Unit Rate	m2							4.86	3.80	39.44	23.94	24.16	48.10	

W0153 Gravel Foundation Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	
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	
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	285.21	480.50	2,330.29	1,464.38	1,641.62	3,098.00
	Miscellaneous	LS	1.00	0.0%	0.0%	25.0%	75.0%	45.0%		0.00	28.46	85.39	82.62	51.23	113.83
	Total								984.21	508.96	2,416.68	1,517.00	2,391.85	3,908.83	
	Components (%)								25.2%	15.0%	61.6%	38.8%	61.2%	100.0%	
	Unit Rate	m3							98.42	50.90	241.67	151.70	239.18	390.88	

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

W0152 Selected Sand Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	
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	
W0128	Selected Sand, transported	m3	12.00	12.0%	20.0%	87.1%	43.5%	58.5%	168.00	258.85	398.85	1,336.30	868.35	1,125.85	1,932.00
	Miscellaneous	LS	1.00	0.0%	0.0%	25.0%	75.0%	45.0%		0.00	20.18	60.55	44.40	36.33	80.73
	Total								955.85	419.03	1,366.85	910.75	1,560.88	2,771.73	
	Components (%)								34.5%	15.1%	60.4%	32.0%	67.1%	100.0%	
	Unit Rate	m3							95.59	41.90	136.69	91.08	156.09	277.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.30	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	11,137.50	0.00	6,682.50	4,455.00	11,137.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.59	9.2%	16.5%	75.3%	47.0%	53.0%	258.00	109.09	183.79	891.34	556.30	627.02	1,184.22	Loss 10.0%
W0128	Selected Sand, transported	m3	5.19	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	68.26	106.03	355.23	230.30	295.24	528.54	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	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	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%	1,990.00	23.94	46.04	543.83	317.68	295.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		28.49	128.16	128.16	142.43	142.43	284.85	2.0%
Total									375.40	11,763.04	2,389.09	8,226.03	6,301.49	14,527.52		
Components (%)									2.5%	81.0%	15.4%	56.6%	43.4%	100.0%		
Unit Rate									m3	37.47	1,174.08	238.46	821.04	628.96	1,450.00	

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

Cement = 324.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 1,108.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 757.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	2.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	9,888.75	0.00	6,933.25	3,955.50	9,888.75	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	748.67	1,413.84	Loss 10.0%
W0128	Selected Sand, transported	m3	2.70	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	89.74	139.79	308.67	194.93	253.27	448.20	Loss 10.0%
M01010	Water Supply	m3	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	
M03401	Admixture	kg	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%	1,990.00	23.94	46.04	543.83	317.68	295.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		26.26	118.16	118.16	131.29	131.29	262.58	2.0%
Total									383.84	10,510.38	2,497.32	7,536.81	5,884.73	13,391.54		
Components (%)									2.9%	78.5%	16.6%	56.5%	43.7%	100.0%		
Unit Rate									m3	38.41	1,051.10	249.89	754.16	585.84	1,340.00	

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

Cement = 287.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 1,321.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 641.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 185.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	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	3.64	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	12,285.00	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	1,186.16	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	228.70	294.64	521.24	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	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	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%	1,990.00	23.94	46.04	543.83	317.68	295.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		30.73	138.27	138.27	153.64	153.64	307.28	2.0%
Total									374.91	12,916.17	2,380.01	8,913.65	6,757.44	15,671.09		
Components (%)									2.4%	82.4%	15.2%	58.9%	43.1%	100.0%		
Unit Rate									m3	37.56	1,294.00	238.44	853.01	676.99	1,570.00	

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

Cement = 357.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 1,088.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 746.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	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	3.68	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,027.50	0.00	7,818.80	5,211.00	13,027.50	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	1,022.64	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	554.44	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	122.47	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	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%	1,990.00	23.94	46.04	543.83	317.68	295.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		32.07	144.29	144.29	160.33	160.33	320.65	2.0%
Total									370.07	13,660.34	2,322.83	9,327.81	7,022.65	16,353.26		
Components (%)									2.3%	83.5%	14.2%	57.9%	43.0%	100.0%		
Unit Rate									m3	37.11	1,369.94	232.95	935.43	704.57	1,640.00	

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

Cement = 378.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 994.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 793.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 185.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0204 Concrete (Class C, 21MPa, max agg. 12mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	70.40	0.00	0.00	0.00	70.40	70.40	
M03011	Portland Cement, ordinary	t	3.96	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,365.00	0.00	8,019.00	5,346.00	13,365.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	3.71	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	88.18	148.55	720.45	449.85	507.53	957.18	Loss 10.0%
W0128	Selected Sand, transported	m3	3.57	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	78.41	118.66	397.65	257.74	334.88	692.82	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%	1,990.00	23.94	46.04	543.83	317.68	295.22	613.80	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50								

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	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
W03011	Portland Cement, ordinary	t	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,690.00	0.00	7,614.00	5,076.00	12,690.00
W0122	Crushed Aggregate, transported	m3	4.70	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	111.71	168.20	912.70	569.03	642.97	1,812.60
W0128	Selected Sand, transported	m3	2.76	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	59.08	91.74	307.35	199.28	258.80	458.10
W01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61
W03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,108.84	0.00	774.79	332.05	1,108.84
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	33.69	33.69	51.61	151.61	168.46	168.46	2.0%
Total									374.02	14,422.89	2,385.98	9,939.31	7,243.37	17,182.69	
Components (%)									2.2%	83.9%	13.9%	57.6%	42.2%	100.0%	
Unit Rate									37.44	1,442.29	238.59	993.93	724.34	1,718.27	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 369.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 25mm) = 1,132.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 655.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 165.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.92 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56
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
W03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,533.75	0.00	8,120.26	5,413.60	13,533.75
W0122	Crushed Aggregate, transported	m3	4.15	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	98.63	168.17	805.89	502.97	587.73	1,070.70
W0128	Selected Sand, transported	m3	3.00	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	64.21	99.71	334.07	216.89	281.41	498.00
W01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	108.23	0.00	10.82	98.31	109.23
W03401	Admixture	kg	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,180.00	0.00	828.00	354.00	1,180.00
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	33.69	33.69	159.01	179.01	178.67	353.34	2.0%
Total									367.73	15,339.56	2,313.30	10,456.32	7,561.27	18,026.58	
Components (%)									2.0%	85.1%	12.8%	58.0%	42.0%	100.0%	
Unit Rate									36.77	1,533.96	231.33	1,045.63	756.13	1,802.66	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 393.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 999.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 713.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 165.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.98 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	34.56	0.00	0.00	0.00	34.56	34.56
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
W03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,166.25	0.00	9,699.75	6,466.80	16,166.25
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
W0128	Selected Sand, transported	m3	3.01	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	64.43	100.04	335.19	217.31	282.35	499.68
W01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61
W03401	Admixture	kg	12.04	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,420.72	0.00	994.60	426.22	1,420.72
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	40.65	45.66	470.50	285.34	271.46	556.80
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	40.98	40.98	184.42	184.42	204.92	204.92	2.0%
Total									369.65	18,225.11	2,306.92	12,712.02	8,689.45	20,901.47	
Components (%)									1.8%	87.2%	11.0%	58.4%	41.6%	100.0%	
Unit Rate									36.96	1,822.51	230.69	1,271.20	868.95	2,090.15	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 470.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 950.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 714.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 165.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 1.18 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0211 Concrete (for RCC Pavement, 24.1MPa, max agg. 60mm)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	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
W03011	Portland Cement, ordinary	t	3.05	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.50	0.00	6,196.50	4,131.00	10,327.50
W0122	Crushed Aggregate, transported	m3	5.62	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	133.57	228.03	1,091.35	681.13	768.83	1,449.96
W0128	Selected Sand, transported	m3	2.41	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	51.58	80.10	288.37	173.99	228.07	400.06
W01010	Water Supply	m3	1.35	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	89.37	0.00	8.94	80.43	89.37
W03401	Admixture	kg	7.65	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	902.70	0.00	631.89	270.81	902.70
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.58	296.22	613.80
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00	28.89	40.65	470.50	285.34	271.46	556.80
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	38.99	38.99	130.01	130.01	144.45	144.45	2.0%
Total									389.59	11,845.40	2,504.06	8,439.82	6,294.24	14,334.05	
Components (%)									2.6%	80.4%	17.0%	67.3%	42.7%	100.0%	
Unit Rate									38.96	1,184.54	250.41	843.98	629.42	1,433.41	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 300.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 1,354.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 571.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.21 hr
 Water = 158.00 kg/m3 L : Transportation Distance = 0.60 km
 Admixture = 0.76 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0215 Concrete (for RCPC, 25MPa, 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	
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
W03011	Portland Cement, ordinary	t	3.74	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,622.50	0.00	7,573.50	5,049.00	12,622.50
W0122	Crushed Aggregate, transported	m3	4.20	9.2%	15.5%	75.3%	47.0%	53.0%	258.00	99.82	168.17	816.60	509.03	574.57	1,083.60
W0128	Selected Sand, transported	m3	3.04	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	65.07	101.04	338.63	219.48	285.16	504.64
W01010	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
W03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,108.84	0.00	774.79	332.05	1,108.84
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr													

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.05	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	
M03011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	60.0%	40.0%	3,378.00	0.00	14,951.25	0.00	8,970.75	6,880.50	14,951.25
W0122	Crushed Asbestos, transported	m3	4.06	9.2%	15.0%	75.3%	47.0%	53.0%	258.00	96.50	162.67	788.42	492.56	558.42	1,047.48
W0128	Selected Sand, transported	m3	2.95	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	63.14	98.05	328.51	212.38	276.72	489.70
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23
M03401	Admixture	kg	11.12	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	1,312.15	0.00	918.51	393.65	1,312.15
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	5.9%	7.5%	88.6%	51.7%	48.3%	1,980.00	23.94	46.04	543.83	317.59	296.22	613.80
R0805-060	Truck Mixer 5.0-6.0 cu-yds (2.8-4.6m3)	hr	0.48	7.3%	8.2%	84.5%	31.2%	48.8%	1,160.00	40.65	45.66	470.60	283.34	271.46	556.60
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	36.37	172.67	172.67	191.85	191.85	383.71	2.0%
	Total								367.55	16,897.62	2,303.91	11,399.99	8,169.09	19,569.09	
	Components (%)								1.9%	86.3%	1.8%	58.3%	31.7%	100.0%	
	Unit Rate	m3							38.81	1,692.43	230.78	1,141.80	818.20	1,960.00	

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) = 878.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 699.00 kg/m3 Transportation Time = 2-L/V + .18 = 0.21 hr
 Water = 165.00 kg/m3 L: Transportation Distance = 0.60 km
 Admixture = 1.09 kg/m3 V: Transportation Velocity = 25.00 km/hr

#0221 Mortar (1:3)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
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	
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	
M03011	Portland Cement, ordinary	t	4.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,378.00	0.00	16,638.75	0.00	9,983.25	6,655.50	16,638.75
W0128	Selected Sand, transported	m3	6.11	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	100.78	203.08	680.40	441.12	573.14	1,014.26
M01010	Water Supply	m3	2.17	0.0%	100.0%	0.0%	70.0%	30.0%	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	3.67	66.43	38.41	31.69	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	18.02	81.09	81.09	90.10	90.10	180.20	
	Total								302.40	17,070.11	827.92	10,567.24	7,633.22	15,200.46	
	Components (%)								1.7%	93.8%	4.5%	58.1%	41.9%	100.0%	
	Unit Rate	m3							30.24	1,706.97	82.79	1,056.70	763.30	1,520.00	

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

#0222 Mortar (1:2)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
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	
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	
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,378.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25
W0128	Selected Sand, transported	m3	7.88	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	168.67	261.81	877.50	568.80	739.18	1,308.06
M01010	Water Supply	m3	2.60	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.67	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	
	Total								345.41	21,988.20	1,048.10	13,600.34	9,779.43	23,379.77	
	Components (%)								1.5%	94.0%	4.5%	58.2%	41.8%	100.0%	
	Unit Rate	m3							34.57	2,200.63	104.90	1,361.21	978.78	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

#0225 Grout (non-shrink)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
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	
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	
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,378.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25
W0128	Selected Sand, transported	m3	5.25	12.9%	20.0%	67.1%	43.5%	56.5%	166.00	112.37	174.50	584.63	379.03	492.47	871.50
M03401	Non-shrink Admixture	kg	19.08	0.0%	100.0%	0.0%	70.0%	30.0%	392.00	0.00	7,471.52	0.00	5,230.05	2,241.46	7,471.52
M01010	Water Supply	m3	2.60	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.67	66.43	38.41	31.69	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	30.18	135.82	135.82	150.92	150.92	301.83	
	Total								298.16	29,402.02	1,868.89	18,675.70	11,809.38	30,485.06	
	Components (%)								1.0%	96.4%	2.6%	61.3%	39.7%	100.0%	
	Unit Rate	m3							29.83	2,941.64	186.89	1,868.49	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 = 260.00 kg/m3
 Admixture = 1.87 kg/m3

#0231 Concrete Pouring by Pump Vehicle (plain concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
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	
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	
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	
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	1,886.30	900.98	785.32	1,686.30
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%	0.00	4.19	37.68	23.03	18.84	41.87	
	Total								407.20	4.19	1,723.98	924.01	1,211.36	2,135.37	
	Components (%)								19.1%	0.2%	80.7%	43.3%	56.7%	100.0%	
	Unit Rate	m3							40.81	0.42	172.77	92.40	121.40	214.00	

Miscellaneous covers the cost for vibrator, generator, etc.

#0232 Concrete Pouring by Pump Vehicle (reinforced concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
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	
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	
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	
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	5.06	45.67	27.85	22.78	60.83	
	Total								407.20	5.06	2,189.87	1,162.84	1,012.09	2,582.13	
	Components (%)								15.8%	0.2%	84.0%	45.0%	65.0%	100.0%	
	Unit Rate	m3							40.69	0.51	218.81	116.19	101.21	258.00	

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W0234 Concrete Pouring by Truck Crane Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	116.20	0.00	0.00	0.00	116.20	116.20
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	0.90	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%	51.5%	48.8%	1,070.00	142.31	166.84	1,734.16	1,046.63	966.97	2,033.00
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	65.0%	45.0%	0.00	0.00	5.83	49.75	30.41	24.89	55.28
	Total								873.31	162.07	1,783.90	1,076.43	1,743.05	2,819.48	
	Component (%)								31.0%	16.2%	63.3%	38.2%	61.8%	100.0%	
	Unit Rate	m3							87.37	16.21	178.42	107.66	174.34	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	460.80	460.80
L019	Skilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	658.00	0.00	0.00	0.00	658.00	658.00
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,120.00	0.00	0.00	0.00	1,120.00	1,120.00
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%	0.00	0.00	4.47	40.26	24.60	20.13	44.74
	Total								2,236.80	4.47	40.26	24.60	2,256.93	2,281.84	
	Component (%)								98.0%	0.2%	1.8%	1.1%	98.9%	100.0%	
	Unit Rate	m3							223.53	0.45	4.02	2.46	225.84	228.00	

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

W0236 Concrete Curing (plain concrete) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	65.0%	45.0%	0.00	0.00	7.87	18.37	14.43	11.81	26.24
	Total								64.00	7.87	18.37	14.43	75.81	90.24	
	Component (%)								74.6%	7.8%	17.8%	14.0%	86.0%	100.0%	
	Unit Rate	m3							6.40	0.79	1.84	1.44	7.58	9.02	

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

W0237 Concrete Curing (reinforced concrete) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				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	0.00	3.26	7.62	5.98	4.99	10.88
	Total								32.00	3.26	7.62	5.98	36.90	42.88	
	Component (%)								74.6%	7.8%	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.

W0240 Formwork (plain concrete H<4m) Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	1.82	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	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	0.00	263.76	175.84	219.80	219.80	439.80
	Total								13,286.60	8,937.76	175.84	654.50	21,765.10	22,419.60	
	Component (%)								59.3%	40.0%	0.8%	2.9%	97.1%	100.0%	
	Unit Rate	m2							132.74	89.50	1.76	6.54	217.46	224.00	

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

W0241 Formwork (reinforced concrete H<4m) Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	7,396.40	0.00	0.00	0.00	7,396.40	7,396.40
L020	Unskilled Labor	md	14.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	4,288.00	0.00	0.00	0.00	4,288.00	4,288.00
M05001	Formwork Lumber, use 4 times	m3	1.82	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	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	0.00	266.66	177.77	222.22	222.22	444.43
	Total								13,572.60	8,960.66	177.77	655.92	22,089.12	22,668.03	
	Component (%)								59.7%	39.5%	0.8%	2.9%	97.1%	100.0%	
	Unit Rate	m2							135.48	89.74	1.78	6.56	220.42	227.00	

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

W0242 Formwork (reinforced concrete H<4m) Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	14.90	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	1.82	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	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%	48.8%	1,070.00	427.68	470.45	5,211.57	3,143.59	2,868.11	6,109.70
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	235.04	223.35	279.20	279.20	558.40
	Total								13,544.18	9,499.49	5,434.94	3,857.49	24,621.11	28,378.60	
	Component (%)								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.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	57.60	0.00	0.00	0.00	57.60	57.60
L005	Carpenter	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	451.00	0.00	0.00	0.00	451.00	451.00
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	128.00	0.00	0.00	0.00	128.00	128.00
M05001	Formwork Lumber, use 4 times	m3	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	29.60	562.40	592.00
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	10.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	270.00	0.00	13.50	256.50	270.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	17.98	11.99	14.99	29.97	29.97
	Total								638.60	679.98	11.99	58.09	1,470.49	1,528.57	
	Component (%)								41.6%	57.6%	0.6%	3.8%	96.2%	100.0%	
	Unit Rate	m2							63.72	68.08	1.20	5.81	147.19	153.00	

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

W0244 Formwork for Bridge Superstructures Unit: 10.00 m2

Item No.	Description
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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)	Component (PP)					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%	575.00	334.09	0.00	0.00	0.00	334.09	334.09
L005	Centerman	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	1,858.12	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	729.60	729.60
W05001	Formwork Lumber, use 4 times	m ³	0.16	0.0%	100.0%	0.0%	0.0%	5.0%	3,700.00	0.00	592.00	0.00	0.00	592.00	592.00
W05002	Formwork, Plywood 6x1200x2400, use 3 times	m ²	10.00	0.0%	100.0%	0.0%	0.0%	95.0%	27.00	0.00	270.00	0.00	13.60	256.40	270.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	7.0%	7.7%	85.3%	51.3%	48.8%	1,070.00	89.92	0.00	730.17	440.43	415.57	855.88
	Miscellaneous	LS	1.00	0.0%	0.0%	10.0%	55.0%	45.0%	0.00	0.00	83.52	9.28	51.04	41.76	92.80
	Total								2,981.72	1,011.43	739.46	554.82	4,198.03	4,732.60	
	Components (%)								63.0%	21.4%	15.6%	11.5%	88.7%	100.0%	
	Unit Rate	m ²							298.17	101.03	73.95	55.48	419.81	473.26	

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)	Component (PP)					Remarks
				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%	575.00	403.20	0.00	0.00	0.00	403.20	403.20
L005	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
W02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	17,120.00	0.00	11,128.00	5,992.00	17,120.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10
	Miscellaneous	LS	1.00	0.0%	0.0%	60.0%	55.0%	45.0%	0.00	0.00	71.74	1,187.61	1,081.15	859.21	1,829.36
	Total								3,601.65	17,943.29	1,821.71	12,583.03	10,783.59	23,366.65	
	Components (%)								16.4%	76.8%	7.8%	53.8%	46.1%	100.0%	
	Unit Rate	kg							3.61	17.97	1.82	12.60	10.80	23.40	

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

W0252 Reinforcement Grade 60, cutting, bending & assembly											Unit: 1,000.00 kg				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				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%	575.00	403.20	0.00	0.00	0.00	403.20	403.20
L005	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
W02001	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%	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%	0.0%	60.0%	55.0%	45.0%	0.00	0.00	610.28	1,215.59	1,114.11	911.55	2,025.68
	Total								3,601.65	19,051.81	1,879.49	13,331.53	11,291.43	24,317.55	
	Components (%)								16.4%	77.7%	7.7%	51.3%	45.7%	100.0%	
	Unit Rate	kg							3.60	19.05	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 & 450 (18")											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0215	Concrete (for RCPC, 25MPa, max)	m ³	1.03	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	37.81	1,474.87	238.32	1,015.17	737.83	1,751.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	288.00	41.09	0.61	218.98	117.35	143.23	260.58
W0237	Concrete Curine (reinforced concrete)	m ³	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.23	0.33	0.77	0.60	4.33	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	92.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	331.83	1,764.22	173.06	1,227.52	1,031.39	2,258.90
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	0.04	5.42	43.86	27.38	30.94	58.32
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.13	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	7.93	14.06	68.53	39.80	38.72	78.52
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	79.41	236.23	476.46	357.54	436.56	815.00
	Total								3,042.14	3,493.64	2,077.97	2,783.13	2,422.56	5,205.76	
	Components (%)								9.8%	81.0%	23.2%	53.5%	46.5%	100.0%	
	Unit Rate	m							31.02	349.05	207.80	278.31	242.46	521.00	

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)	Component (PP)					Remarks
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0215	Concrete (for RCPC, 25MPa, max)	m ³	1.60	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	68.73	2,291.06	370.21	1,073.85	1,148.15	2,720.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.67	15.8%	0.2%	84.0%	45.0%	55.0%	288.00	63.89	0.79	340.99	182.42	222.04	405.06
W0237	Concrete Curine (reinforced concrete)	m ³	1.67	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.03	0.51	1.20	0.94	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	3,057.61	301.63	2,139.50	1,797.85	3,937.15
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	15.66	8.14	65.78	41.07	45.41	87.38
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.21	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	12.81	22.70	91.42	54.30	62.84	128.84
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	131.10	395.30	786.59	589.94	721.04	1,310.93
	Total								3,954.14	8,493.64	4,077.97	3,283.13	2,822.56	6,205.76	
	Components (%)								10.0%	81.2%	22.9%	53.4%	46.0%	100.0%	
	Unit Rate	m							395.41	849.36	407.80	328.31	282.26	620.58	

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)	Component (PP)					Remarks
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0215	Concrete (for RCPC, 25MPa, max)	m ³	2.30	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	94.42	3,293.40	532.18	2,282.41	1,647.69	3,910.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	2.26	15.8%	0.2%	84.0%	45.0%	55.0%	288.00	91.64	1.14	487.82	261.42	319.08	590.50
W0237	Concrete Curine (reinforced concrete)	m ³	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.36	8.30	
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
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	19.59	11.75	95.02	69.32	67.04	128.38
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.30	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	18.30	32.43	130.46	91.68	89.34	181.20
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	195.47	586.40	1,172.79	879.60	1,075.05	1,954.66
	Total								4,304.93	9,625.33	2,893.60	6,844.42	5,989.45	12,813.87	
	Components (%)								10.2%	81.3%	22.5%	53.4%	46.0%	100.0%	
	Unit Rate	m							430.49	962.53	289.36	684.44	598.95	1,281.39	

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

W0306 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication & 910 (36")											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0215	Concrete (for RCPC, 25MPa, max)	m ³	3.10	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	113.79					

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1070 (42")												Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	4.05	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	148.66	8,799.25	937.10	3,983.82	2,901.19	6,885.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	860.73	461.27	562.99	1,024.26	
W0237	Concrete Curbing (reinforced concrete)	m ³	3.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	12.71	1.30	3.02	2.38	14.65	17.03	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	845.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,863.50	10,386.41	1,024.64	7,287.91	6,106.64	13,374.65	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	35.41	21.24	107.23	121.19	121.19	226.42	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.52	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	31.72	56.22	228.14	159.22	154.86	314.08	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	393.18	1,179.54	2,359.08	1,769.31	2,162.49	3,931.80	18.0%	
Total									2,746.70	17,445.97	5,562.47	13,751.13	12,024.01	25,775.14		
Components (%)									10.3%	67.7%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									274.67	1744.59	556.24	1375.11	1202.40	2577.51		

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1220 (48")												Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	5.13	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	188.30	7,345.71	1,186.99	5,046.17	3,674.93	8,721.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.85	2.34	1,050.54	584.43	713.31	1,297.74	
W0237	Concrete Curbing (reinforced concrete)	m ³	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	16.10	1.84	3.83	3.01	18.87	21.68	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	684.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,461.66	13,021.54	1,284.59	9,111.84	7,655.96	16,767.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.89	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	44.44	26.87	124.63	134.61	162.13	288.74	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.66	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	40.26	71.36	282.02	202.09	196.55	399.64	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	494.88	1,484.65	2,969.30	2,226.97	2,721.86	4,948.83	18.0%	
Total									3,450.31	21,954.12	7,037.91	17,309.12	15,133.21	32,442.33		
Components (%)									10.3%	67.7%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									345.03	2195.41	703.79	1730.91	1513.32	3244.23		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	7.62	2.2%	84.2%	13.6%	57.9%	42.1%	1,700.00	279.70	10,911.17	1,783.13	7,495.48	5,458.52	12,954.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,619.55	867.93	1,059.33	1,927.26	
W0237	Concrete Curbing (reinforced concrete)	m ³	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	23.92	2.44	5.69	4.47	27.58	32.05	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,689.97	19,519.00	1,925.58	13,658.45	11,476.10	26,134.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.89	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	66.29	39.77	321.62	200.77	228.91	427.68	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.98	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	59.78	105.95	428.16	300.07	291.85	591.92	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	739.21	2,217.64	4,435.28	3,326.46	4,065.69	7,392.14	18.0%	
Total									5,162.50	32,799.76	10,432.01	25,853.63	22,605.96	49,459.60		
Components (%)									10.3%	67.7%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									516.25	3279.97	1043.20	2585.36	2260.59	4945.96		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	0.80	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	29.45	1,353.93	184.60	913.44	654.56	1,568.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	0.78	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	31.74	0.39	169.11	90.63	110.61	201.24	
W0237	Concrete Curbing (reinforced concrete)	m ³	0.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	2.50	0.26	0.80	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	2,334.82	230.30	1,633.58	1,372.57	3,006.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	6.78	4.07	32.69	20.53	23.21	43.74	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.10	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	6.10	10.81	43.49	30.62	29.78	60.40	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	87.89	263.66	527.35	395.51	483.41	878.92	18.0%	
Total									605.79	3,967.67	1,189.34	3,084.16	2,617.02	5,761.80		
Components (%)									10.5%	68.9%	20.6%	53.6%	46.5%	100.0%		
Unit Rate									60.58	396.76	118.93	308.41	261.70	576.18		

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #810 (24")												Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.33	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	48.96	2,250.93	306.90	1,518.59	1,088.21	2,606.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.30	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	52.89	0.60	281.65	151.05	184.35	335.40	
W0237	Concrete Curbing (reinforced concrete)	m ³	1.30	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	4.16	0.42	0.99	0.76	4.80	5.58	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	199.60	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	717.65	3,795.73	374.45	2,656.07	2,231.66	4,887.76	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	11.30	6.78	54.82	34.22	38.66	72.90	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.17	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	10.37	18.38	73.93	52.05	50.63	102.68	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	144.20	432.60	865.20	648.90	793.10	1,442.00	18.0%	
Total									969.45	6,505.51	1,959.15	5,061.66	4,391.45	9,453.11		
Components (%)									10.5%	68.8%	20.7%	53.6%	46.5%	100.0%		
Unit Rate									96.94	650.55	195.91	506.16	439.14	945.31		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.93	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	74.05	3,266.39	446.36	2,203.67	1,579.13	3,782.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.89	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	78.90	0.96	408.77	219.60	268.02	487.62	
W0237	Concrete Curbing (reinforced concrete)	m ³	1.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	6.05	0.62	1.44	1.13	6.98	8.11	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	272.60	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	980.49	5,186.55	511.66	3,629.29	3,049.41	6,678.70	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.22	15.6%	9.3%	75.2%	46.9%	53.1%	486.00	16.57	9.94	80.40	50.19	56.73	106.92	
R0601-005	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.25	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	15.25	27.03	109.72	76.85	74.45	161.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	80.0%	45.0%	55.0%	201.87	605.62	1,211.24	908.43	1,110.30	2,018.73	18.0%	
Total									1,368.19	9,097.10	2,769.59	7,088.86	6,145.01	13,233.88		
Components (%)									10.3%	68.7%	20.9%	53.6%	46.4%	100.0%		
Unit Rate									136.82	909.71	276.95	708.88	614.50	1323.38		

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

W0317 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1870 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	3.32	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	122.22	5,618.87	766.11	3,790.78	2,716.42	6,507.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	3.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	132.23	1.84	377.61	1.84	460.69	836.50	
W0237	Concrete Curing (reinforced concrete)	m ³	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	10.40	1.06	2.48	1.06	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	6,812.50	14,920.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.39	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	28.53	17.18	138.68	86.70	37.98	184.68	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.43	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	26.23	46.49	187.00	131.65	128.06	259.72	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		409.04	1,227.13	2,454.25	1,840.89	2,249.73	4,090.42	18.0%
Total									2,819.21	18,499.34	5,396.41	14,337.98	12,477.58	26,814.96		
Components (%)									10.9%	69.0%	20.1%	53.8%	46.5%	100.0%		
Unit Rate									291.76	1,849.90	539.34	1,432.94	1,247.96	2,680.96		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	4.30	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	158.30	7,277.45	992.26	4,909.74	3,518.26	8,428.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	4.22	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	171.70	2.13	914.93	490.92	598.44	1,089.76	
W0237	Concrete Curing (reinforced concrete)	m ³	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	13.51	1.38	3.21	2.83	15.67	18.10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	2,836.09	15,002.17	1,479.99	10,497.79	8,820.46	19,318.26	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.50	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	37.67	22.60	114.07	71.47	128.93	243.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.56	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	34.16	60.54	243.53	171.47	166.77	338.24	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		629.82	1,869.43	3,178.91	2,384.18	2,914.00	5,298.18	18.0%
Total									3,781.24	23,955.74	6,995.68	18,870.10	16,182.44	34,732.63		
Components (%)									10.9%	69.0%	20.1%	53.8%	46.5%	100.0%		
Unit Rate									377.77	2,395.57	698.90	1,855.57	1,614.73	3,470.20		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	6.27	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	230.82	10,611.84	1,446.84	7,158.09	5,130.11	12,289.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	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	1,588.70	
W0237	Concrete Curing (reinforced concrete)	m ³	6.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	19.69	2.01	4.69	3.68	22.70	26.38	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,186.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	4,268.90	22,570.80	2,226.64	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	32.64	263.14	164.27	185.65	348.92	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.81	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	49.41	87.57	352.25	241.22	248.84	489.24	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		749.50	2,365.51	4,731.03	3,488.27	4,396.77	7,885.04	18.0%
Total									5,658.78	35,613.10	10,353.95	21,631.82	18,359.00	41,660.83		
Components (%)									10.9%	69.0%	20.1%	53.8%	46.5%	100.0%		
Unit Rate									568.08	3,567.84	1,035.98	2,163.87	2,406.33	5,170.00		

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 #480 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	1.03	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	37.82	1,742.20	237.68	1,176.05	842.75	2,018.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.01	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	41.09	0.51	218.99	117.35	143.23	260.58	
W0237	Concrete Curing (reinforced concrete)	m ³	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	3.23	0.33	0.77	0.60	3.73	4.33	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	158.20	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	569.02	3,009.95	296.94	2,108.22	1,769.68	3,875.90	
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	43.86	27.58	30.94	58.32	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.13	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	7.93	14.06	56.53	39.80	39.72	78.82	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		113.34	340.91	690.02	510.01	693.95	1,139.96	18.0%
Total									2,618.98	5,112.46	1,524.77	3,977.42	3,432.30	7,423.81		
Components (%)									10.9%	69.0%	20.1%	53.8%	46.5%	100.0%		
Unit Rate									256.08	5,112.46	1,035.98	2,163.87	2,406.33	743.00		

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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	1.60	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	59.90	2,707.89	369.21	1,828.88	1,396.12	3,138.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.57	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	63.88	0.79	340.39	182.42	222.64	406.06	
W0237	Concrete Curing (reinforced concrete)	m ³	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	5.03	0.51	1.20	0.94	5.80	6.74	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	228.40	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	821.51	4,346.59	428.70	3,040.83	2,564.97	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	13.56	8.14	65.78	41.07	46.41	87.49	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.21	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	12.91	22.70	94.32	64.30	62.64	126.94	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		166.44	505.33	1,010.86	757.99	926.43	1,684.43	18.0%
Total									1,141.13	7,590.95	2,207.26	5,114.43	5,127.92	11,042.36		
Components (%)									10.4%	69.7%	20.9%	53.6%	46.4%	100.0%		
Unit Rate									113.97	756.18	229.84	597.75	510.83	1,100.00		

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 #780 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Component (PP)				Total (PP)
												Equipment	Foreign	Local		
W0216	Concrete (for RCPC, 32MPa, max)	m ³	2.30	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	84.87	3,892.59	530.74	2,826.14	1,881.86	4,808.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	2.25	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	91.54	1.14	487.82	261.42	319.08	580.50	
W0237	Concrete Curing (reinforced concrete)	m ³	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	7.20	0.73	1.71	1.35	8.30	9.65	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	345.10	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	1,241.26	6,565.95	647.74	4,594.63	3,860.42	8,464.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.28	15.5%	9.3%	75.2%	46.9%	53.1%	486.00	19.59	11.75	95.02	59.32	67.04	126.36	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.30	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	18.30	32.43	130.45	91.86	89.34	181.20	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		249.49						

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), Fabrication #1070 (42")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0216	Concrete for RCPC, 32MPa, max	m ³	4.05	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	148.09	6,854.35	934.55	4,624.29	3,313.71	7,938.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	3.97	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	161.53	2.01	850.73	461.27	562.99	1,024.26	
W0237	Concrete Curline (reinforced concrete)	m ³	3.97	74.6%	7.6%	17.8%	14.0%	88.0%	4.29	12.71	1.30	3.02	2.39	14.85	17.03	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	967.00	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,478.12	18,399.35	1,815.03	12,874.27	10,817.23	23,691.50	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.47	8.5%	8.3%	83.2%	50.5%	49.5%	681.00	35.20	34.37	344.51	209.26	204.81	414.07	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.62	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	31.72	56.22	226.14	159.22	154.86	314.08	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		601.18	1,803.54	3,607.09	2,705.31	3,206.50	6,011.81	18.0%
	Total									4,469.55	27,150.14	7,791.05	21,090.01	18,374.74	39,410.75	
	Components (%)									11.3%	68.9%	19.8%	53.4%	46.6%	100.0%	
	Unit Rate	m								446.83	2,714.27	778.89	2,109.03	1,837.97	3,940.00	

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

W0336 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), Fabrication #1220 (48")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0216	Concrete for RCPC, 32MPa, max	m ³	5.13	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	189.85	8,692.17	1,183.77	5,897.44	4,197.36	10,064.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	5.03	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	204.65	2.54	1,090.54	584.43	713.91	1,297.74	
W0237	Concrete Curline (reinforced concrete)	m ³	5.03	74.6%	7.6%	17.8%	14.0%	88.0%	4.29	16.10	1.64	3.83	3.01	18.57	21.68	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	982.30	14.7%	77.7%	7.7%	54.3%	45.7%	24.50	3,633.15	18,699.46	1,843.74	13,077.97	10,988.38	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 (4.6-6.9m ³)	hr	0.65	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	40.26	71.36	287.02	202.09	196.25	398.64	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		654.46	1,963.38	3,926.76	2,945.07	3,598.53	6,544.60	18.0%
	Total									4,891.87	29,453.70	8,769.14	22,932.70	19,970.81	42,503.50	
	Components (%)									10.9%	68.7%	20.4%	53.5%	46.6%	100.0%	
	Unit Rate	m								489.19	2,945.37	876.91	2,293.27	1,997.08	4,250.35	

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 #1820 (60")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0216	Concrete for RCPC, 32MPa, max	m ³	7.62	1.9%	86.3%	11.8%	58.3%	41.7%	1,960.00	280.52	12,896.33	1,758.35	8,700.52	6,234.68	14,935.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	7.47	15.8%	0.2%	84.0%	45.0%	55.0%	258.00	303.93	3.78	1,619.55	887.93	1,059.33	1,927.26	
W0237	Concrete Curline (reinforced concrete)	m ³	7.47	74.6%	7.6%	17.8%	14.0%	88.0%	4.29	23.92	2.44	5.69	4.47	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	20,419.90	44,707.80	
R0402-020	Truck Crane, Hydraulic 18-20t	hr	0.88	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	65.91	72.50	803.18	494.48	457.12	941.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.88	10.1%	17.9%	72.0%	50.7%	49.3%	604.00	69.78	105.93	428.18	300.07	291.85	591.92	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		1,136.44	3,409.32	6,818.65	5,113.99	6,250.43	11,584.41	18.0%
	Total									8,433.97	51,209.37	14,856.70	39,766.15	34,733.90	74,500.04	
	Components (%)									11.3%	68.7%	19.8%	53.4%	46.6%	100.0%	
	Unit Rate	m								843.40	5,120.94	1,485.67	3,976.61	3,473.39	7,450.00	

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)	Component (PP)					Total (PP)	Remarks
				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	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	364.00	0.00	0.00	0.00	364.00	364.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.5%	9.3%	75.2%	45.9%	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%		6.60	59.42	68.03	59.42	72.63	132.05	7.0%
	Total									956.76	162.48	899.30	579.60	1,438.93	2,018.53	
	Components (%)									47.4%	8.0%	44.6%	28.7%	71.3%	100.0%	
	Unit Rate	m								95.68	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					Total (PP)	Component (PP)					Total (PP)	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	
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	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	416.00	0.00	0.00	0.00	416.00	416.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.88	15.5%	9.3%	75.2%	45.9%	53.1%	486.00	215.44	129.27	1,045.25	652.60	737.46	1,389.96	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		8.05	72.42	80.46	72.42	88.81	160.93	
	Total									1,132.49	201.69	1,125.71	724.32	1,124.97	2,459.85	
	Components (%)									46.2%	8.2%	45.8%	29.5%	70.5%	100.0%	
	Unit Rate	m								113.25	20.17	112.57	72.50	112.50	246.00	

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

W0343 Precast Concrete Pipe Laying #780 (30")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	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	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.5%	9.3%	75.2%	45.9%	53.1%	486.00	258.38	153.03	1,253.57	782.55	884.43	1,668.98	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		9.92	89.29	99.21	89.29	109.13	199.42	
	Total									1,435.90	244.32	1,352.79	871.84	2,161.16	3,033.00	
	Components (%)									47.3%	8.3%	44.6%	28.7%	71.3%	100.0%	
	Unit Rate	m								143.59	24.43	135.14	87.10	216.90	303.00	

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

W0344 Precast Concrete Pipe Laying #910 (36")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	403.20	0.00	0.00	0.00	403.20	403.20	
L019	Skilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	287.00	0.00	0.00	0.00	287.00	287.00	
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	609.00	0.00	0.00	0.00	609.00	609.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.00	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	299.64	292.49	2,93				

W0346 Precast Concrete Pipe Laying #1220 (48")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	
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	451.00	
L020	Unskilled Labor	md	2.80	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%	80.5%	49.5%	881.00	384.91	375.85	3,767.56	2,288.64	2,239.80	4,528.34	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.76	195.80	217.55	195.80	239.31	435.10	7.0%
Total									2,094.06	871.55	3,885.13	4,484.34	4,169.50	6,555.50		
Components (%)									31.5%	8.6%	69.9%	37.4%	62.0%	100.0%		
Unit Rate									209.38	57.16	398.46	248.40	415.80	655.50		

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

W0347 Precast Concrete Pipe Laying #1520 (60")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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%	81.5%	48.5%	1,070.00	470.37	617.41	5,731.82	3,457.40	3,252.20	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	7.0%
Total									2,546.65	793.48	6,038.57	3,733.47	5,644.23	9,377.69		
Components (%)									21.1%	8.5%	64.4%	34.6%	60.2%	100.0%		
Unit Rate									254.67	79.35	604.01	373.44	564.56	938.00		

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

W0351 Precast Concrete Pipe Removal #460 (18")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	115.20	0.00	0.00	0.00	115.20	115.20	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.68	15.5%	9.3%	75.2%	46.9%	53.1%	485.00	51.22	30.73	248.52	155.14	175.34	330.48	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.64	5.64	25.28	25.28	31.02	56.40	10.0%
Total									220.35	36.37	293.54	180.52	139.88	620.40		
Components (%)									48.6%	9.9%	47.3%	28.1%	70.9%	100.0%		
Unit Rate									29.02	3.64	29.35	18.04	43.96	62.00		

Miscellaneous covers the costs for demolition, disposal, etc.

W0352 Precast Concrete Pipe Removal #810 (24")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	15.5%	9.3%	75.2%	46.9%	53.1%	485.00	64.78	38.87	314.31	198.21	221.75	417.96	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		9.91	9.91	65.25	31.09	37.99	69.07	10.0%
Total									344.39	45.78	369.60	227.29	532.44	759.73		
Components (%)									45.3%	6.0%	48.6%	29.9%	70.1%	100.0%		
Unit Rate									34.44	4.58	36.97	22.74	53.20	75.90		

Miscellaneous covers the costs for demolition, disposal, etc.

W0353 Precast Concrete Pipe Removal #760 (30")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	15.5%	9.3%	75.2%	46.9%	53.1%	485.00	77.59	46.55	376.44	234.99	265.59	560.58	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.51	8.51	66.07	38.29	46.80	85.09	10.0%
Total									436.38	55.06	444.50	273.28	622.66	935.95		
Components (%)									46.6%	6.9%	47.5%	29.2%	70.8%	100.0%		
Unit Rate									43.64	5.51	44.46	27.33	62.27	93.50		

Miscellaneous covers the costs for demolition, disposal, etc.

W0354 Precast Concrete Pipe Removal #910 (36")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	86.10	0.00	0.00	0.00	86.10	86.10	
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	182.40	0.00	0.00	0.00	182.40	182.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.5%	8.3%	83.2%	80.5%	49.5%	881.00	89.86	87.75	879.59	534.29	524.91	1,057.20	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.43	14.43	115.73	45.18	54.87	144.87	10.0%
Total									220.73	192.21	995.32	659.39	991.94	1,591.33		
Components (%)									31.0%	6.4%	62.5%	37.7%	82.3%	100.0%		
Unit Rate									49.34	10.21	89.45	59.89	99.11	159.00		

Miscellaneous covers the costs for demolition, disposal, etc.

W0355 Precast Concrete Pipe Removal #1070 (42")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	84.40	0.00	0.00	0.00	84.40	84.40	
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%	80.5%	49.5%	881.00	102.50	100.18	1,004.20	609.98	526.99	1,206.97	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		18.64	18.64	133.15	74.90	91.54	186.44	10.0%
Total									576.68	116.82	1,137.35	884.88	1,149.97	1,530.85		
Components (%)									31.5%	8.4%	62.1%	37.4%	82.6%	100.0%		
Unit Rate									57.67	11.68	113.65	88.49	114.99	183.00		

Miscellaneous covers the costs for demolition, disposal, etc.

W0356 Precast Concrete Pipe Removal #1220 (48")													Unit: 10.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				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	0.76	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%	8.3%	83.2%	80.5%	49.5%	881.00	116.32	112.61	1,128.81	685.67	671.07	1,356.74	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		18.63	18.63	149.04	83.83	102.46	186.30	10.0%
Total									640.17	131.24	1,277.84	769.51	1,279.75	2,049.26		

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	408.96	0.00	0.00	0.00	408.96	408.96
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	582.20	0.00	0.00	0.00	582.20	582.20
L020	Unskilled Labor	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	227.20	0.00	0.00	0.00	227.20	227.20
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	4.65	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	303.77	337.90	2,771.44	1,673.31	1,739.79	3,413.10
R0401-040	Crawler Crane, 36-40t	hr	4.65	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	344.57	761.67	7,981.27	4,820.66	4,248.84	9,067.50
R1001-150	Generator 101-150 kW	dav	0.71	0.0%	52.2%	47.8%	59.9%	40.1%	3,810.00	0.00	1,337.94	1,225.16	1,638.66	1,024.64	2,663.10
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	252.33	3,250.67	1,928.14	1,782.56	3,710.70
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								2,074.49	2,689.83	15,208.44	9,958.66	10,014.10	19,972.76	
	Components (%)								10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m ²							20.77	26.91	152.29	99.72	100.28	200.00	

$T_c = [(0.75 + y \cdot N_{max}) \cdot L + a] \cdot K / F$
 T_c : Construction time per pile = 11.2 min/pile N_{max} : Maximum N-value = 10.00 T : Operation hour per day = 6.66 hr/day
 a : Coefficient = 3.75 K : Coefficient = 1.00 Sheet Pile width = 0.400 m
 y : Coefficient = 0.02 F : Work factor = 1.00 Sheet Pile length = 10.000 m
 L : Pile driving length = 7.80 m

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				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	748.20	0.00	0.00	0.00	748.20	748.20
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	432.38	3,546.25	2,141.11	2,226.19	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	974.81	10,187.00	6,158.37	5,434.13	11,602.50
R1001-150	Generator 101-150 kW	dav	0.91	0.0%	52.2%	47.8%	59.9%	40.1%	3,810.00	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	206.89	322.87	4,169.34	2,467.19	2,280.81	4,748.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								2,657.04	3,444.87	19,482.86	12,746.06	12,818.50	25,864.56	
	Components (%)								10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m ²							26.61	34.49	194.90	127.64	128.36	258.00	

$T_c = [(0.75 + y \cdot N_{max}) \cdot L + a] \cdot K / F$
 T_c : Construction time per pile = 14.3 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.66 hr/day
 a : Coefficient = 3.75 K : Coefficient = 1.00 Sheet Pile width = 0.400 m
 y : Coefficient = 0.02 F : Work factor = 1.00 Sheet Pile length = 10.000 m
 L : Pile driving length = 7.80 m

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	345.60	0.00	0.00	0.00	345.60	345.60
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	287.38	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	645.37	6,745.67	4,084.60	3,598.40	7,683.00
R1001-150	Generator 101-150 kW	dav	0.60	0.0%	52.2%	47.8%	59.9%	40.1%	3,810.00	0.00	1,130.65	1,035.36	1,298.50	867.60	2,166.00
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	1,630.97	1,607.83	3,138.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,754.71	2,275.77	12,878.88	8,431.89	8,477.47	16,969.36	
	Components (%)								10.4%	13.5%	76.1%	49.9%	50.1%	100.0%	
	Unit Rate	m ²							17.54	22.76	128.72	84.27	84.73	169.00	

$T_c = [(0.75 + y \cdot N_{max}) \cdot L + a] \cdot K / F$
 T_c : Construction time per pile = 9.8 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.66 hr/day
 a : Coefficient = 3.00 K : Coefficient = 1.00 Sheet Pile width = 0.400 m
 y : Coefficient = 0.60 F : Work factor = 1.00 Sheet Pile length = 10.000 m
 L : Pile pullout length = 7.80 m

#0406 H-Pile Driving for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				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	4,574.03	2,830.19	2,493.31	5,323.60
R1001-150	Generator 101-150 kW	dav	0.42	0.0%	52.2%	47.8%	59.9%	40.1%	3,810.00	0.00	791.46	724.74	908.95	607.25	1,516.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.84	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	122.15	149.32	1,131.73	1,133.39	1,047.81	2,181.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,223.61	1,585.33	8,936.61	5,854.92	5,890.52	11,745.44	
	Components (%)								10.4%	13.5%	76.1%	49.9%	50.2%	100.0%	
	Unit Rate	m							12.19	15.79	89.02	58.32	58.68	117.00	

$T_c = (T_s + T_b) / F$
 T_c : Construction time per pile = 19.8 min/pile L : Pile Driving length = 6.00 m
 T_b : Preparation time per pile = 10.00 min/pile K : Coefficient = 1.00
 T_s : Driving time per pile = $y \cdot L \cdot K = 5.70$ min/pile N_{max} : Maximum N-value = 30.00
 y : Driving time per unit meter = $0.01 \cdot N_{max} + 0.65 = 0.95$ min/m F : Work factor = 0.80
 T : Operation hour per day = 6.66 hr/day
 Pile Length = 12.00 m

#0407 H-Pile Removal for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	207.36	0.00	0.00	0.00	207.36	207.36
L019	Skilled Labor	md	0.72	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	295.20	0.00	0.00	0.00	295.20	295.20
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	115.20	0.00	0.00	0.00	115.20	115.20
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.38	8.9%	9.9%	81.2%	49.0%	51.0%	734.00	155.48	172.95	1,418.50	856.46	890.47	1,748.92
R0401-040	Crawler Crane, 36-40t	hr	2.38	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00	178.36	389.94	4,074.80	2,467.35	2,173.65	4,641.00
R1001-150	Generator 101-150 kW	dav	0.36	0.0%	52.2%	47.8%	59.9%	40.1%	3,810.00	0.00	876.39	821.21	779.10	520.60	1,298.60
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	106.51	129.33	1,656.05	968.28	913.84	1,901.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,056.10	1,370.51	7,780.57	5,091.15	5,116.03	10,207.18	
	Components (%)								10.3%	13.4%	76.2%	49.9%	50.1%	100.0%	
	Unit Rate	m							10.55	13.70	77.75	50.68	51.12	102.00	

$T_c = (T_s + T_b) / F$
 T_c : Construction time per pile = 14.3 min/pile L : Pile length = 10.00 m
 T_b : Preparation time per pile = 8.00 min/pile K : Coefficient = 1.05
 T_s : Driving time per pile = $y \cdot L \cdot K = 6.83$ min/pile N_{max} : Maximum N-value = 30.00
 y : Driving time per unit meter = 0.65 min/m F : Work factor = 0.90
 T : Operation hour per day = 6.66 hr/day
 Pile Length = 10.00 m

#0411 Temporary Struts & Supports Installation

Unit: 10.00 t

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W0412 Temporary Struts & Supports Removal													Unit: 10.00 t		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	0.00	576.00			
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	0.00	820.00			
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	609.00	0.00	0.00	0.00	0.00	609.00			
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	0.00	640.00			
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.71	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	427.59	417.53	4,185.38	2,842.33	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	349.00	416.65	416.65	349.00	757.55	10.0%		
	Miscellaneous	LS	1.00	0.0%	46.0%	55.0%	55.0%	45.0%		2,972.59	758.43	4,602.04	2,958.88	5,374.08	8,333.08			
	Total									35.74	9.19	58.24	35.24	64.54	100.0%			
	Components (%)									297.15	75.82	460.03	295.79	537.21	833.00			
	Unit Rate																	

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

W0413 Temporary Struts & Tie Rod Installation													Unit: 10.00 t		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L002	Foreman	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	2,880.00	0.00	0.00	0.00	0.00	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			
L009	Welder	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	2,545.00	0.00	0.00	0.00	0.00	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			
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	2,087.66	20,925.92	12,711.85	12,440.90	25,192.55			
R0901-025	Welding Machine 250A	day	5.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.88	2,940.00	8.0%		
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	1,411.83	1,725.57	1,411.83	3,137.40				
	Total									13,262.97	4,669.61	24,424.37	15,159.84	26,195.31	42,354.95			
	Components (%)									1,927.71	467.46	2,444.83	1,617.68	2,622.32	4,240.00			
	Unit Rate																	

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

W0414 Temporary Struts & Supports Removal													Unit: 10.00 t		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local				
L002	Foreman	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,679.40	0.00	0.00	0.00	0.00	1,679.40			
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,378.00	0.00	0.00	0.00	0.00	2,378.00			
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	0.00	0.00	0.00	0.00	0.00	0.00			
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	928.00	0.00	0.00	0.00	0.00	928.00			
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.5%	8.3%	83.2%	50.5%	49.5%	881.00	1,240.10	1,210.92	12,138.35	7,373.20	7,216.16	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	968.61	968.61	792.41	1,760.92	9.0%		
	Total									6,216.50	2,003.33	13,105.95	8,241.71	12,524.57	21,526.68			
	Components (%)									620.87	200.08	1,309.65	835.13	1,296.87	2,130.60			
	Unit Rate																	

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

W0415 Temporary Deck Plate Installation													Unit: 100.00 m2		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	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	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	0.00	1,353.00	1,353.00		
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	0.00	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	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	2,736.56	5,632.89			
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	0.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total									2,809.88	459.21	4,603.19	2,796.12	5,075.15	7,871.26	0.0%		
	Components (%)									35.74	5.84	58.54	35.58	64.54	100.0%			
	Unit Rate									28.08	4.59	45.92	27.95	50.74	78.72			

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

W0416 Temporary Deck Plate Removal													Unit: 100.00 m2		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	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	0.00	738.00	738.00		
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	0.00	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	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%	881.00	256.86	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	0.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total									1,532.46	250.81	2,514.16	1,527.18	2,730.25	4,297.43			
	Components (%)									35.74	3.84	58.54	35.58	64.54	100.0%			
	Unit Rate									15.33	2.51	25.16	15.28	27.72	43.00			

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

W0417 Temporary Deck Plate Support Beam Installation													Unit: 10.00 t		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks		
				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%	576.00	748.80	0.00	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	0.00	1,599.00	1,599.00		
L009	Welder	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	1,323.40	0.00	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	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	555.65	542.57	5,438.90	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	826.37	512.49	1,136.88	10.0%		
	Total									4,642.85	1,199.46	6,695.17	4,377.90	8,149.59	12,527.48			
	Components (%)									37.14	9.54	63.54	34.94	65.13	100.0%			
	Unit Rate									463.27	119.95	668.15	435.83	813.37	1,250.60			

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

W0418 Temporary Deck Plate Support Beam Removal													Unit: 10.00 t		Amount		Remarks	
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks		
				Lab.	Mat.	Equip.	For.	Local		Labor	Material</							

W0422 Temporary Access Bridge Superstructure Removal

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	410.00	0.00	0.00	0.00	0.00	410.00	
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	0.00	254.50	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	480.00	0.00	0.00	0.00	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	3,933.41	3,436.19	7,269.60	
	Miscellaneous	LS	1.00	0.0%	0.0%	30.0%	70.0%	55.0%	0.00	0.00	251.14	585.98	489.42	379.71	837.14	9.0%
	Total								2,373.57	632.71	6,922.36	4,292.35	5,844.60	10,138.54		
	Components (%)								23.4%	8.2%	68.4%	42.4%	57.6%	100.0%		
	Unit Rate								236.45	62.95	690.59	427.75	582.25	1,010.00		

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

W0423 Temporary Access Bridge Railing Installation

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	0.00	576.00	
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	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	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	0.00	576.00	
R0401-025	Crawler Crane, 21-25t	hr	4.07	4.7%	8.0%	87.3%	52.7%	47.3%	1,550.00	298.41	507.94	5,542.85	3,348.06	3,001.14	6,349.20	
	Miscellaneous	LS	1.00	0.0%	0.0%	30.0%	70.0%	55.0%	0.00	0.00	208.87	486.91	382.57	313.01	695.58	7.0%
	Total								3,886.11	716.61	6,029.76	3,730.63	6,801.85	10,632.48		
	Components (%)								38.5%	6.7%	66.7%	35.1%	84.9%	100.0%		
	Unit Rate								38.74	7.14	60.11	37.13	68.91	106.00		

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
				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	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	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	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	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	1,816.70	1,718.10	3,634.80	
	Miscellaneous	LS	1.00	0.0%	0.0%	30.0%	70.0%	55.0%	0.00	0.00	17.01	39.79	31.19	25.82	68.71	1.0%
	Total								2,205.84	307.80	3,212.88	1,947.89	3,779.61	5,727.51		
	Components (%)								38.5%	5.4%	56.1%	34.0%	85.0%	100.0%		
	Unit Rate								22.08	3.08	32.14	19.49	37.81	57.30		

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

W0431 Temporary Drain Pump Installation & Removal

Unit: 1.00 set

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	115.20	0.00	0.00	0.00	115.20		
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	16.2%	10.9%	70.8%	45.6%	54.4%	413.00	343.51	205.73	1,358.17	890.85	1,028.68	1,887.41	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								1,354.71	205.73	1,338.17	869.85	2,032.76	2,898.61		
	Components (%)								46.7%	7.1%	46.2%	29.7%	70.3%	100.0%		
	Unit Rate								1,355.36	205.83	1,338.82	861.26	2,038.74	2,908.00		

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

W0432 Temporary Drain Pump Operation

Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	98.40	0.00	0.00	0.00	98.40		
R1004-102	Electric Water Pump 3 1/2 - 4 (88.9-101.6mm)	day	1.00	0.0%	27.7%	72.3%	53.1%	48.9%	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%	0.0%	78.9%	56.6%	43.4%	883.00	0.00	186.31	696.69	499.66	383.34	883.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	5.88	5.88	5.88	11.76	1.0%	
	Total								98.40	246.21	843.55	609.16	579.00	1,198.16		
	Components (%)								6.3%	20.7%	71.0%	51.3%	48.7%	100.0%		
	Unit Rate								98.55	246.59	844.80	610.10	579.90	1,199.00		

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

W0441 Temporary Frame Support Installation & Removal

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	541.44	0.00	0.00	0.00	541.44		
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	5.8%	2.1%	78.9%	56.6%	43.4%	1,330.00	119.17	144.70	1,864.13	1,105.74	1,022.26	2,128.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	55.0%	50.0%	50.0%	0.00	7.73	61.84	85.03	77.30	77.30	154.60	3.0%
	Total								3,152.14	206.54	1,949.16	1,183.04	1,124.80	5,307.84		
	Components (%)								59.4%	3.9%	36.7%	22.3%	77.7%	100.0%		
	Unit Rate								31.53	2.07	19.50	11.84	41.26	53.10		

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

W0442 Temporary Frame Support Depreciation

Unit: 100.00 m3.d

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
M05062	Temporary Frame Support (Portal 1210x1700)	day	17.58	0.0%	100.0%	0.0%	0.0%	50.0%	1.65	0.00	29.01	0.00	14.61	14.61	29.01	
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.59	0.00	41.50	0.00	20.75	20.75	41.50	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	2.82	2.82	2.82	2.82	5.64	8.0%
	Total								0.00	0.00	73.33	2.82	38.08	38.08	76.15	
	Components (%)								0.0%	96.3%	3.7%	50.0%	50.0%	100.0%		
	Unit Rate								0.00	0.73	0.03	0.38	0.38	0.76		

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

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	241.92	0.00	0.00	0.00	241.92		
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		
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		
R0503-120																

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	0.00	0.00	0.00	0.00	576.00	576.00	
L010	Painter	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	4,300.80	0.00	0.00	0.00	4,300.80	4,300.80	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	779.00	0.00	0.00	0.00	779.00	779.00	
M06020	Silicon Alkyl Resin Paint for Steel	kg	12.36	0.0%	100.0%	0.0%	65.0%	35.0%	260.00	0.00	3,090.00	0.00	2,008.50	1,081.50	3,090.00	Loss 3.0%
M06020	Silicon Alkyl Resin Paint for Steel	kg	11.33	0.0%	100.0%	0.0%	65.0%	35.0%	260.00	0.00	2,832.60	0.00	1,841.13	991.36	2,832.60	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	35.0%	48.0%		0.00	621.00	1,218.72	955.21	781.54	1,738.75	15.0%
	Total									5,653.80	6,443.52	1,215.72	4,804.83	8,510.21	13,315.05	
	Components (%)									42.5%	48.4%	9.1%	36.1%	63.9%	100.0%	
	Unit Rate	m ²								56.49	64.36	12.14	47.99	85.01	133.00	

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

W0505 Temporary Bent for Steel Bridge Erection

Unit: 1.00 s

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	276.00	115.20	0.00	0.00	0.00	115.20	115.20	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	451.00	0.00	0.00	0.00	451.00	451.00	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	64.00	0.00	0.00	0.00	64.00	64.00	
M06041	Temporary Steel Shales Depreciation	t-r	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	h	0.13	0.0%	0.0%	8.8%	87.8%	52.0%	48.0%	1,330.00	9.68	11.76	151.46	89.84	63.06	172.80
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m ³	0.83	2.0%	78.5%	18.6%	56.3%	43.7%	1,340.00	20.36	557.40	132.44	399.70	310.50	710.20	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m ³	0.52	19.1%	0.2%	80.7%	43.3%	56.7%	214.00	21.22	0.22	89.94	48.15	63.13	111.28	
W0235	Concrete Curing (plain concrete)	m ³	0.52	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.33	0.41	0.85	0.75	3.94	4.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	60.0%		45.58	139.74	279.48	232.90	232.90	465.79	3.0%
	Total									731.36	14,605.72	654.17	7,719.94	8,272.32	15,992.26	
	Components (%)									4.6%	81.9%	4.1%	48.3%	51.7%	100.0%	
	Unit Rate	s								731.72	14,613.79	654.49	7,723.69	8,276.32	16,000.00	

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

W0506 Site Welding for Steel Bridge

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	864.00	0.00	0.00	0.00	864.00	864.00	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	809.00	1,527.00	0.00	0.00	0.00	1,527.00	1,527.00	
L019	Skilled Labor	md	11.99	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,911.80	0.00	0.00	0.00	4,911.80	4,911.80	
R0901-050	Welding Machine 500A	day	2.10	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00	0.00	1,864.55	1,222.45	1,871.85	1,215.15	3,087.00	
R1001-150	Generator 101-150 kW	day	3.00	0.0%	52.2%	47.8%	39.9%	40.1%	3,810.00	0.00	5,653.26	5,178.74	6,492.82	4,337.48	10,630.00	
R1002-160	Air Compressor 128-160 cfm (3.6-4.5m ³ /min)	day	3.00	0.0%	27.8%	72.2%	87.2%	42.8%	2,090.00	0.00	1,743.06	4,626.84	3,568.45	2,681.55	6,270.00	
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	50.0%	50.0%		115.46	1,539.40	2,103.60	1,924.29	1,924.29	3,848.57	14.0%
	Total									7,415.26	10,800.30	13,119.82	13,877.11	17,451.25	31,338.37	
	Components (%)									23.7%	34.5%	41.9%	44.3%	55.7%	100.0%	
	Unit Rate	m								740.52	1,078.71	1,310.38	1,386.01	1,745.99	3,130.00	

Miscellaneous covers the cost for welding rods, acetylene gas, falseworks, testing, etc.
 G = M * a / (0.10 * H + 12.2)
 G : Daily productivity = 8.89 m/day
 M : Total length of welding = 448.5 m
 a : Coefficient due to average thickness = 0.85

W0521 Precast PC Girder Fabrication Base Construction & Removal

Unit: 101.00 girder

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	3.28	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	1,889.28	0.00	0.00	0.00	1,889.28	1,889.28	
L019	Skilled Labor	md	9.84	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	4,034.40	0.00	0.00	0.00	4,034.40	4,034.40	
L019	Unskilled Labor	md	18.40	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	8,724.00	0.00	0.00	0.00	8,724.00	8,724.00	
L020	Unskilled Labor	md	41.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	13,120.00	0.00	0.00	0.00	13,120.00	13,120.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		25,767.88	3,993.99	3,993.99	4,393.39	3,594.69	7,987.98	31.0%
	Total									26,767.88	3,993.99	3,993.99	4,393.39	29,392.27	33,755.66	
	Components (%)									76.3%	11.8%	11.8%	13.0%	87.0%	100.0%	
	Unit Rate	girder								264.96	39.52	39.52	43.47	290.53	334.00	

Miscellaneous covers the cost for lumber, plywood, nail, etc.
 Total number of girders = 101
 Maximum Girder Length = 40.000 m
 Number of bases = 4

W0522 Precast PC Girder Fabrication Base Maintenance

Unit: 1.00 girder

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

Base Length = 41.000 m

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.80	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	8.80	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	856.35	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	74,167.65	0.00	51,917.29	22,250.27	74,167.65	Loss 6.0%
M09301	PC Strand, #80	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	115.00	0.00	12,076.00	0.00	7,848.75	4,226.25	12,076.00	Loss 5.0%
W0225	Grout (non-shrink)	m ³	0.23	1.0%	96.4%	2.6%	61.3%	38.7%	3,050.00	6.81	676.58	18.11	429.75	271.75	701.50	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	740.41	185.10	509.03	416.48	925.51	1.0%
	Total									5,613.41	87,659.83	203.21	60,704.82	32,771.34	93,478.15	
	Components (%)									6.0%	93.8%	0.2%	64.8%	35.1%	100.0%	
	Unit Rate	m								55.15	876.82	2.03	607.20	327.60	935.00	

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

W0536 PC Strand (10-T12.7, 190t) 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	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	919.20	0.00	0.00	0.00	919.20	919.20
L019	Skilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	3,075.00	0.00	0.00	0.00	3,075.00	3,075.00
L020	Unskilled Labor	md	6.30	100.0%	0.0%										

W0538 PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W09301	PC Strand, T15.2	kg	116.71	0.0%	100.0%	0.0%	0.0%	30.0%	119.00	0.00	13,288.49	0.00	9,721.94	4,166.55	13,888.49	Loss 8.0%
W09322	PC Sheath, Ø28	m	106.00	0.0%	100.0%	0.0%	0.0%	35.0%	52.20	0.00	5,533.20	0.00	3,506.65	1,636.20	5,533.20	Loss 6.0%
W0225	Grout (non-shrink)	m3	0.05	0.0%	100.0%	2.0%	61.3%	38.7%	3,050.00	1.48	147.08	3.94	117.53	96.16	213.70	1.0%
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	170.96	42.74	117.53	96.16	213.70	
	Total								1,795.88	19,739.73	45.69	13,629.49	8,653.83	21,653.83		
	Component (%)								8.3%	91.5%	0.2%	92.7%	37.3%	100.0%		
	Unit Rate								17.98	197.55	0.47	135.40	80.60	216.00		

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						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W09345	PC Anchorages 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	43,425.00	14,475.00	57,900.00	
W09365	PC Anchorages 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	634.15	449.85	984.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	2,284.81	571.15	1,570.87	1,285.09	2,855.78	2.0%
	Total								4,404.00	139,934.61	1,556.15	105,154.82	49,488.94	145,843.76		
	Component (%)								1.0%	95.0%	0.1%	12.2%	27.8%	100.0%		
	Unit Rate								441.48	14,002.63	155.90	10,515.20	4,958.80	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						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W09346	PC Anchorages 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	
W09365	PC Anchorages 195,225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,800.00	0.00	108,000.00	0.00	79,500.00	28,500.00	108,000.00	
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	1,049.60	699.77	479.83	1,049.60	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,075.25	769.81	2,114.24	1,729.83	3,844.00	2.0%
	Total								4,752.80	189,475.25	1,818.41	144,184.00	63,563.28	196,047.28		
	Component (%)								1.0%	95.0%	0.1%	12.2%	27.8%	100.0%		
	Unit Rate								475.28	18,947.53	181.80	14,218.40	6,356.04	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						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	3.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W09346	PC Anchorages 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	
W09365	PC Anchorages 195,225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,800.00	0.00	108,000.00	0.00	79,500.00	28,500.00	108,000.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.70	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,115.20	605.38	509.82	1,115.20	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,079.27	769.82	2,117.00	1,732.00	3,849.00	2.0%
	Total								4,939.20	189,479.27	1,858.02	144,184.00	63,563.28	196,160.40		
	Component (%)								1.0%	95.0%	0.1%	12.2%	27.8%	100.0%		
	Unit Rate								493.16	18,918.63	185.21	14,218.40	6,356.04	19,600.00		

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

W0548 PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab

Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W09348	PC Anchorages 30t T15.2 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	828.00	0.00	8,280.00	0.00	6,210.00	2,070.00	8,280.00	
W09368	PC Anchorages 30t T15.2 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,070.00	0.00	10,700.00	0.00	8,025.00	2,675.00	10,700.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.40	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	262.40	142.44	119.96	262.40	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	324.19	81.05	221.88	182.36	404.24	2.0%
	Total								1,919.40	19,304.19	343.45	14,669.32	6,066.71	20,667.04		
	Component (%)								4.9%	95.4%	1.7%	12.6%	28.4%	100.0%		
	Unit Rate								191.94	1,930.50	34.40	1,466.96	607.64	2,070.00		

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

W0549 Secondary Concrete for Precast PC Deck Slab

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	0.00	0.00	0.00	0.00	576.00	576.00	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	410.00	410.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	0.00	0.00	0.00	0.00	320.00	320.00	
W0206	Concrete (Class A42, 28MPa, max sz. 20mm)	m3	10.20	2.0%	85.1%	12.8%	58.0%	42.0%	1,800.00	374.65	15,628.48	2,356.87	10,653.28	7,708.74	18,360.00	Loss 2.0%
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.54	7.0%	7.7%	85.3%	81.5%	48.5%	1,070.00	115.35	126.88	1,405.57	847.83	799.97	1,647.80	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	1,019.40	252.37	57.77	606.71	1,077.48	
	Total								1,252.20	15,755.36	5,762.44	11,501.09	9,269.91	20,771.00		
	Component (%)								6.0%	76.9%	18.1%	55.4%	44.5%	100.0%		

W0563 Precast PC Girder Erection (15.0 ≤ W < 17.5t)

Unit: 100.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	6.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,426.07	9,409.51	8,177.29	17,585.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									4,739.08	738.65	16,426.07	9,409.51	12,493.29	21,902.80	
Components (%)									21.6%	3.4%	76.9%	43.0%	57.0%	100.0%	
Unit Rate									47.39	7.39	164.24	94.09	124.93	219.03	
Work Capacity =									100 t/day						

W0564 Precast PC Girder Erection (17.5 ≤ W < 20t)

Unit: 110.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,280.00	0.00	0.00	0.00	1,280.00	1,280.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	5.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,426.07	9,409.51	8,177.29	17,585.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									4,739.08	738.65	16,426.07	9,409.51	12,493.29	21,902.80	
Components (%)									21.6%	3.4%	76.9%	43.0%	57.0%	100.0%	
Unit Rate									43.05	6.73	149.24	85.49	113.51	199.03	
Work Capacity =									110 t/day						

W0565 Precast PC Girder Erection (20.0 ≤ W < 35.0 t)

Unit: 190.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-080	Truck Crane, Hydraulic 71-80t	hr	11.42	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	844.17	1,477.29	32,852.14	18,819.03	16,354.57	35,173.89
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,350.17	1,477.29	32,852.14	18,819.03	21,810.57	40,629.80	
Components (%)									15.5%	3.6%	80.9%	46.3%	53.7%	100.0%	
Unit Rate									33.18	7.78	173.04	99.12	114.88	214.90	
Work Capacity =									190 t/day						

W0566 Precast PC Girder Erection (35.0 ≤ W < 60.0 t)

Unit: 225.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-120	Truck Crane, Hydraulic 101-120t	hr	11.42	1.1%	1.9%	97.0%	53.9%	46.1%	8,960.00	874.32	1,510.18	77,099.70	42,853.75	35,629.45	79,483.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,330.32	1,510.18	77,099.70	42,853.75	42,085.45	84,939.20	
Components (%)									7.5%	1.8%	90.8%	50.5%	49.5%	100.0%	
Unit Rate									29.17	6.72	345.11	190.71	187.29	378.00	
Work Capacity =									225 t/day						

W0567 Precast PC Girder Erection (60.0 ≤ W < 75.0 t)

Unit: 235.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-140	Truck Crane, Hydraulic 121-140t	hr	11.42	0.9%	1.9%	87.2%	54.0%	48.0%	8,240.00	846.91	1,787.92	91,465.98	50,842.72	43,256.08	84,100.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,302.91	1,787.92	91,465.98	50,842.72	48,714.08	99,556.80	
Components (%)									8.3%	1.8%	91.9%	51.1%	48.9%	100.0%	
Unit Rate									26.84	7.61	399.51	216.53	207.47	424.00	
Work Capacity =									235 t/day						

W0568 Precast PC Girder Erection (75.0 ≤ W < 80.0 t)

Unit: 250.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	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	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1,600.00	0.00	0.00	0.00	1,600.00	1,600.00
R0402-160	Truck Crane, Hydraulic 141-160t	hr	11.42	0.8%	1.9%	97.3%	54.0%	48.0%	8,960.00	818.59	1,944.14	99,560.47	55,294.14	47,029.08	102,323.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,274.59	1,944.14	99,560.47	55,294.14	52,058.06	107,779.20	
Components (%)									8.8%	1.8%	92.4%	51.3%	48.7%	100.0%	
Unit Rate									25.09	7.77	399.13	221.12	209.83	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
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.73	2.4%	82.4%	15.2%	58.9%	43.1%	1,570.00	403.02	13,884.62	2,558.46	9,581.99	7,664.11	16,848.10
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 Curbing (reinforced concrete)	m3	10.52	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	33.68	3.44	8.02	6.30	38.83	45.13
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	262.60	16.4%	78.8%	7.6%	63.9%	46.1%	23.40	947.14	4,718.83	479.06	3,309.03	2,835.81	6,144.84
R0402-016	Truck Crane, Hydraulic 11-15t	hr	1.80	8.3%	8.3%	83.2%	50.5%	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						0.00	296.30	296.30	325.93	266.67	892.60	
Total									4,402.08	19,025.31	6,795.44	15,157.94	15,064.90	30,222.83	
Components (%)									14.8%	63.0%	22.5%	50.2%	49.8%	100.0%	
Unit Rate									431.53	1,901.00	679.03	1,514.65	1,506.38	3,020.00	
Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.									Concrete = 1.052 m3/each						

W0602 Pier Protection Concrete Block Type B Production & Laying

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.09	2.4%	82.4%	15.2%	56.9%	43.1%	1,570.00	378.98	13,056.45	2,405.86	9,010.46	6,830.84	15,841.30
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 Curbing (reinforced concrete)	m3	9.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.29						

#0803 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 agg. 38mm)	m ³	10.09	2.4%	82.4%	15.2%	56.9%	43.1%	1,570.00	378.98	13,056.46	2,405.88	9,010.45	6,830.84	15,841.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	9.99	18.8%	0.2%	84.0%	45.0%	45.1%	268.00	402.39	5.00	2,144.23	1,149.10	1,402.52	2,651.62	
W0257	Concrete Curine (reinforced concrete)	m ³	9.99	74.6%	7.6%	17.8%	14.0%	86.0%	4.29	31.68	3.23	7.54	8.92	36.51	42.43	
W0261	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.4%	76.6%	7.8%	53.9%	46.1%	23.40	854.45	4,266.83	432.16	2,985.18	2,688.28	5,543.45	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.00	8.5%	8.3%	83.2%	50.8%	49.5%	881.00	119.82	0.00	1,172.79	712.39	697.21	1,409.60	
L002	Foreman	md	1.45	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	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	
W0203	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	278.59	278.59	306.45	250.73	557.18	2.0%
Total									4,257.70	17,717.11	8,441.18	14,169.51	14,216.49	28,415.99		
Components (%)									16.0%	62.3%	22.7%	49.5%	50.1%	100.0%		
Unit Rate									428.53	1,770.71	843.76	1,416.15	1,423.85	2,840.00		

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

Concrete = 0.959 m³/each

#0811 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%	575.00	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	m ³	113.00	11.8%	18.5%	69.5%	44.2%	55.2%	197.00	2,837.48	4,149.20	15,474.31	9,978.51	12,282.49	22,261.00	Loss 13.0%
R0102-051	Backhoe, hydraulic, crawler, 0.81M ³	hr	3.00	0.0%	6.8%	87.1%	52.3%	47.1%	1,740.00	681.21	1,271.69	13,185.20	8,004.77	7,133.23	15,138.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	0.0%	6.8%	87.6%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
W0203	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									3,798.69	5,420.60	28,859.51	17,983.28	19,895.72	37,879.00		
Components (%)									10.0%	14.3%	75.7%	47.5%	52.5%	100.0%		
Unit Rate									38.01	54.21	286.75	179.93	199.07	379.00		

#0851 Temporary Support at Pier Head for Cantilever Construction

Unit: 10.00 v-m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	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	m ³ -d	740.00	0.0%	98.3%	3.7%	50.0%	50.0%	0.76	0.00	543.00	20.88	281.94	281.94	563.88	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	2.0%
W0203	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	58.77	25.19	41.98	41.98	83.95	
Total									1,487.16	758.42	2,038.30	1,505.68	2,776.26	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

#0852 Temporary Bracket Support at Pier Head for Cantilever Construction

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	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	0.60	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	0.60	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 Shores Depreciation	t-d	74.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	2,316.20	0.00	1,158.10	1,158.10	2,316.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	127.36	154.65	1,992.29	1,181.76	1,092.54	2,274.30	23.0%
W0203	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	736.82	1,473.63	
Total									1,815.96	3,502.40	2,434.38	3,076.88	4,804.05	7,850.73		
Components (%)									24.7%	44.4%	36.8%	39.0%	61.0%	100.0%		
Unit Rate									1,943.78	3,502.07	2,434.15	3,076.39	4,803.61	7,850.00		

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

#0853 Temporary External & Internal Support at Pier Head for Cantilever Construction

Unit: 10.00 v-m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	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	m ³ -d	570.00	0.0%	98.3%	3.7%	50.0%	50.0%	0.76	0.00	418.25	16.09	217.17	217.17	434.34	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.55	664.10	393.92	364.18	758.10	
W0203	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	48.48	19.92	33.20	33.20	66.41	4.0%
Total									510.15	516.26	700.10	614.29	1,082.25	1,726.65		
Components (%)									29.5%	29.9%	40.5%	37.3%	62.7%	100.0%		
Unit Rate									51.12	51.73	70.16	64.56	108.44	173.00		

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

#0854 Temporary Suspension Support at Center Connection for Cantilever Construction

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	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	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,056.00	0.00	0.00	0.00	1,056.00	1,056.00	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	576.00	0.00	0.00	0.00	576.00	576.00	
W05041	Temporary Steel Shores Depreciation	t-d	31.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	970.30	0.00	485.15	485.15	970.30	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	6.8%	87.6%	52.0%	48.0%	1,330.00	213.01	268.66	3,332.13	1,976.51	1,827.29	3,803.80	
W0203	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,209.86	518.43	864.05	864.05	1,728.00	26.0%
Total									2,086.41	2,438.62	3,850.56	3,325.71	5,048.88	6,374.59		
Components (%)																

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

Unit: 10.00 y-m²

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	576.00	576.00	0.00	0.00	0.00	576.00	57.60
L005	Carpentar	md	0.10	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	451.00	451.00	0.00	0.00	0.00	451.00	45.10
L019	Skilled Labor	md	0.50	100.0%	0.0%	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%	0.0%	100.0%	320.00	160.00	0.00	0.00	0.00	160.00	160.00
W0442	Temporary Frame Support Depreciation	m ³ -d	630.00	0.0%	96.3%	3.7%	80.0%	50.0%	0.76	0.00	388.90	14.96	201.93	201.93	403.86	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.0%	8.8%	87.6%	52.0%	48.0%	1,330.00	42.45	51.56	664.10	393.92	32.59	758.10	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	45.03	19.58	32.59	32.59	65.19	4.0%
	Total									510.15	456.09	698.61	628.44	1,054.40	1,694.95	
	Components (%)									30.1%	28.7%	69.6%	37.1%	62.9%	100.0%	
	Unit Rate	y-m ²								50.87	48.47	69.66	62.66	106.34	169.00	

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc. Provided days = 63.0 days

W0661 Assembly & Disassembly of Form Traveler

Unit: 1.00 set

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	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	8,524.80	0.00	0.00	0.00	8,524.80	8,524.80	
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	37,310.00	0.00	0.00	0.00	37,310.00	37,310.00	
L020	Unskilled Labor	md	85.80	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	27,456.00	0.00	0.00	0.00	27,456.00	27,456.00	
R0402-045	Truck Crane, Hydraulic 41-45t	hr	85.63	3.4%	5.0%	91.6%	53.1%	48.9%	2,240.00	6,523.10	0.992.60	175,740.10	101,824.89	90,031.11	191,856.00	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	60.0%		0.00	50,112.75	21,476.89	35,794.82	35,794.82	71,589.64	27.0%
	Total									79,813.90	69,705.65	197,216.99	137,619.71	199,116.72	336,736.44	
	Components (%)									23.7%	17.7%	59.6%	40.9%	59.1%	100.0%	
	Unit Rate	set								79,876.37	69,764.26	197,371.53	137,727.43	199,272.67	337,000.00	

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

W0652 Form Traveler Shifting

Unit: 1.00 time

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	518.40	0.00	0.00	0.00	518.40	518.40	
L019	Skilled Labor	md	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	574.00	0.00	0.00	0.00	574.00	574.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	270.28	180.19	225.23	225.23	450.47	27.0%
	Total									1,668.40	270.28	180.19	225.23	450.47	2,118.87	
	Components (%)									78.7%	12.8%	8.5%	10.6%	89.4%	100.0%	
	Unit Rate	time								1,669.29	270.43	180.28	225.35	450.65	2,120.00	

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

W0663 Form Traveler Lifting

Unit: 1.00 time

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

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)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	492.00	0.00	0.00	0.00	492.00	492.00	
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	384.00	0.00	0.00	0.00	384.00	384.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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)

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	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	
W09306	PC Strand, T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,848.00	35,934.00	119,780.00	Loss 6.0%
R0402-026	Truck Crane, Hydraulic 21-25t	hr	3.43	5.8%	8.8%	87.6%	52.0%	48.0%	1,330.00	255.47	310.21	3,996.22	2,191.47	4,581.90		
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	0.00	8,271.44	6,246.47	5,110.75	11,357.22	8.0%
	Total									17,878.87	129,176.90	6,267.67	92,462.91	60,859.62	153,322.52	
	Components (%)									11.7%	84.0%	4.1%	60.3%	39.7%	100.0%	
	Unit Rate	t								17,841.26	128,904.20	6,254.48	92,269.41	60,731.59	153,000.00	

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

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

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	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	
W09306	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	106,000.00	0.00	79,600.00	26,500.00	106,000.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	12,867.60	8,578.40	11,795.30	9,650.70	21,446.00	20.0%
	Total									1,230.00	119,867.60	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	each								123.00	11,916.69	850.00	9,129.53	3,735.07	12,900.00	

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

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

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	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	

W0677 PC Cable Anchorage, (6-T12.7, 90t) for PC Box Girder (Transversal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	0.00	0.00	0.00	0.00	861.00	
M09363	PC Anchorage 432 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	12,500.00	0.00	0.00	9,375.00	3,125.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	2,084.32	1,389.54	1,810.62	1,563.24	3,473.88	
Total									861.00	14,584.32	1,389.54	11,285.62	5,549.24	16,834.96	
Components (%)									6.1%	86.6%	8.3%	67.0%	33.0%	100.0%	
Unit Rate									85.92	1,455.41	138.67	1,126.23	553.77	1,680.00	

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

W0678 PC Cable Tensioning, (6-T12.7, 90t) for PC Box Girder (Transversal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	633.60	0.00	0.00	0.00	633.60	
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	
L020	Unskilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	672.00	0.00	0.00	0.00	672.00	
M09343	PC Sheath, 475	m	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	150.00	0.00	1,500.00	0.00	975.00	1,500.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	658.00	0.00	0.00	721.60	391.71	329.89	
R0711-006	Concrete Mixer 4-6 ft ³ /min (0.11-0.17m ³ /min)	day	1.10	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	19.99	604.81	341.75	283.05	
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	1,408.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	410.94	273.96	378.70	664.90	
Total									3,355.00	1,930.93	3,009.37	2,849.88	5,448.02	8,294.90	
Components (%)									40.5%	23.3%	36.3%	34.4%	85.4%	100.0%	
Unit Rate									335.36	192.98	300.66	284.82	544.18	829.00	

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

W0681 PC Bar Installation, (1-432mm) for PC Box Girder (Transversal)											Unit: 1.00 t				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	921.60	0.00	0.00	0.00	921.60	
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	5,576.00	0.00	0.00	0.00	5,576.00	
L020	Unskilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,400.00	0.00	0.00	0.00	2,400.00	
M09313	PC Tendon, 432	kg	1,800.00	0.0%	100.0%	0.0%	70.0%	30.0%	158.00	0.00	136,000.00	0.00	95,200.00	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	213.01	258.66	3,332.13	1,976.51	1,827.29	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	7,137.47	1,784.42	4,907.15	8,222.08	
Total									9,110.61	143,396.33	5,116.55	102,083.65	55,539.82	157,623.48	
Components (%)									5.8%	91.0%	3.2%	64.8%	35.2%	100.0%	
Unit Rate									9,132.38	143,738.66	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.

W0682 PC Bar Anchorage, (1-432mm) for PC Box Girder (Transversal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	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	
M09374	PC Anchorage 432 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	1,502.50	1,001.66	1,377.29	1,268.87	
Total									451.00	16,702.50	1,001.66	12,777.29	5,377.87	18,155.16	
Components (%)									2.8%	92.0%	5.8%	70.4%	29.5%	100.0%	
Unit Rate									45.21	1,674.37	100.41	1,280.88	539.12	1,820.00	

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

W0683 PC Bar Tensioning, (432mm) for PC Box Girder (Transversal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	460.80	0.00	0.00	0.00	460.80	
L019	Skilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	
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	
M09354	PC Anchorage 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	9,375.00	3,125.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	658.00	0.00	0.00	524.80	284.88	239.92	
R0711-006	Concrete Mixer 4-6 ft ³ /min (0.11-0.17m ³ /min)	day	0.80	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	14.54	439.86	248.54	205.86	
R0710-000	Grout Pump	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,024.00	556.16	467.84	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	314.82	209.88	288.59	524.70	
Total									2,986.80	12,829.36	2,198.54	10,753.17	7,261.53	18,014.70	
Components (%)									16.6%	71.2%	12.2%	59.7%	40.3%	100.0%	
Unit Rate									298.44	1,281.89	219.67	1,074.44	725.56	1,800.00	

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

W0686 PC Bar Installation, (1-432mm) for PC Box Girder (Vertical in Web)											Unit: 1.00 t				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	921.60	0.00	0.00	0.00	921.60	
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	5,576.00	0.00	0.00	0.00	5,576.00	
L020	Unskilled Labor	md	7.60	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	2,400.00	0.00	0.00	0.00	2,400.00	
M09313	PC Tendon, 432	kg	1,800.00	0.0%	100.0%	0.0%	70.0%	30.0%	158.00	0.00	136,000.00	0.00	95,200.00	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.6%	8.8%	87.6%	52.0%	48.0%	1,330.00	213.01	258.66	3,332.13	1,976.51	1,827.29	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	7,137.47	1,784.42	4,907.15	8,222.08	
Total									9,110.61	143,396.33	5,116.55	102,083.65	55,539.82	157,623.48	
Components (%)									5.8%	91.0%	3.2%	64.8%	35.2%	100.0%	
Unit Rate									9,132.38	143,738.66	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.

W0687 PC Bar Anchorage, (1-432mm) for PC Box Girder (Vertical in Web)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	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	
M09374	PC Anchorage 432 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	1,502.50	1,001.66	1,377.29	1,268.87	
Total									451.00	16,702.50	1,001.66	12,777.29	5,377.87	18,155.16	
Components (%)									2.8%	92.0%	5.8%	70.4%	29.5%	100.0%	
Unit Rate									45.21	1,674.37	100.41	1,280.88	539.12	1,820.00	

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

W0688 PC Bar Tensioning, (1-432mm) for PC Box Girder (Vertical in Web)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	575.00	460.80	0.00	0.00	0.00	460.80	
L019	Skilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1,886.00	0.00	0.00	0.00	1,886.00	
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	
M09354	PC Anchorage 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	9,375.00	3,125.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9														

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		
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m ³	1.76	2.2%	84.1%	13.7%	57.1%	42.9%	1,660.00	64.39	2,457.19	400.11	1,668.02	1,252.98	2,921.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.73	15.6%	0.2%	84.0%	45.0%	55.0%	258.00	70.99	0.88	376.08	201.01	246.33	446.34	
W0237	Concrete Curbs (plain concrete)	m ³	1.73	74.6%	7.8%	17.8%	14.0%	86.0%	4.29	5.54	0.56	1.32	1.04	6.38	7.42	
M02001	Reinforcing Bars, Grade 40	kg	305.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	4,886.40	0.00	3,176.16	1,710.24	4,886.40	
M02014	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	
M02014	Structural Steel (Shapes, SS400)	kg	35.40	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	676.94	0.00	473.09	202.75	676.94	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	0.11	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	6.74	9.44	32.99	24.04	25.13	49.17	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	170.20	67.55	169.87	169.87	337.75	3.0%
	Total									147.05	10,571.98	877.95	7,302.91	4,293.17	11,596.08	
	Components (%)									1.3%	91.2%	7.5%	63.0%	37.0%	100.0%	
	Unit Rate	each								1.47	105.76	8.77	73.05	42.93	116.00	

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		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	11.29	101.61	35.45	56.45	112.90	12.0%
	Total									940.80	11.29	101.61	35.45	56.45	1,053.70	
	Components (%)									89.3%	1.1%	9.6%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.38	0.11	1.01	0.35	0.56	10.50	

W0703 Precast Concrete Cover (880x580x75), 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		
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m ³	3.02	2.2%	84.1%	13.7%	57.1%	42.9%	1,660.00	110.46	4,216.17	686.55	2,853.20	2,150.00	5,013.20	Loss 2.0%
W0236	Concrete Pouring by Manpower for small structures	m ³	2.96	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	661.65	1.32	11.91	7.28	667.60	874.85	
W0237	Concrete Curbs (reinforced concrete)	m ³	2.96	74.6%	7.8%	17.8%	14.0%	86.0%	4.29	9.46	0.97	2.26	1.77	10.93	12.70	
M02001	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	9,716.80	0.00	6,315.92	3,400.88	9,716.80	
M02014	Structural Steel (Round Bar, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	837.12	0.00	585.98	251.14	837.12	
M02014	Structural Steel (Shapes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	1,833.92	0.00	1,283.74	550.18	1,833.92	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m ³)	hr	0.18	13.7%	19.2%	67.1%	48.9%	51.1%	447.00	11.02	15.45	53.99	39.33	41.13	80.46	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	436.08	109.01	272.54	272.54	545.07	3.0%
	Total									792.53	17,057.80	863.72	11,369.76	7,344.39	18,714.15	
	Components (%)									4.2%	91.1%	4.0%	60.8%	39.2%	100.0%	
	Unit Rate	each								7.92	170.58	8.63	113.61	73.39	187.00	

W0704 Precast Concrete Cover (880x580x75), 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		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	768.00	0.00	0.00	0.00	768.00	768.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	11.29	56.45	56.45	112.90	12.0%	
	Total									940.80	0.00	11.29	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	

W0711 Iron Step for Drop Inlet Manholes, furnish & 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		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	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	
M02011	Structural Steel (Round Bar, SS400)	kg	226.90	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,946.42	0.00	3,462.49	1,483.93	4,946.42	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	86.72	346.88	218.80	218.80	433.60	8.0%
	Total									473.60	5,033.14	346.88	3,462.49	2,174.33	8,553.62	
	Components (%)									8.1%	86.4%	8.9%	54.9%	37.1%	100.0%	
	Unit Rate	each								4.73	50.33	3.47	34.62	21.73	85.53	

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	
				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	172.80	0.00	0.00	0.00	172.80	172.80	
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	
M02011	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	3,199.60	1,370.78	4,569.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	80.69	322.74	201.72	201.72	403.43	8.0%
	Total									473.60	4,649.97	322.74	3,400.21	2,045.10	6,446.31	
	Components (%)									8.1%	85.4%	5.9%	52.4%	37.6%	100.0%	
	Unit Rate	each								4.74	46.53	3.23	34.03	20.47	64.50	

W0715 Steel Grate for Manhole Inlet, furnish & installation												Unit: 40.00 kg				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L020	Unskilled Labor	md	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%	16.00	0.00	669.20	0.00	428.48	230.72	669.20	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	9.26	81.56	45.31	45.31	90.62	8.0%
	Total									473.60	669.26	81.56	473.79	246.03	1,223.42	
	Components (%)									38.1%	51.6%	8.7%	38.7%	61.3%	100.0%	
	Unit Rate	kg								11.85	16.71	2.04	11.85	18.75	30.60	

W0721 Grating Cover for U-Ditch (W=300mm), furnish & installation												Unit: 10.00 m ²				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	172.80	0.00	0.00	0.00	172.80	172.80	
L009	Welder	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	609.00	661.70	0.00	0.00	0.00	661.70	661.70	
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	208.60	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	3,634.40	0.00	2,644.08	1,090.32	3,634.40	
M02012	Structural Steel (Flat Bar, SS400)	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%	16.00	0.00	391.52	0.00	254.49	137.03	391.52	
	Miscellaneous	LS	1.00	0.0												

W0732 Granular Bedding for Rubbia Concrete													Unit: 10.00 m3			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	123.00	0.00	0.00	0.00	123.00	123.00	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	16.5%	75.3%	47.0%	83.0%	258.00	285.21	480.50	2,330.29	1,454.38	1,641.62	3,096.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	80.0%	80.0%	80.0%	0.00	0.00	18.89	82.77	39.23	39.23	78.48	2.0%
	Total									1,112.21	1,098.19	2,393.00	1,493.61	2,507.85	4,001.46	
	Components (%)									27.8%	12.4%	59.8%	37.3%	62.7%	100.0%	
	Unit Rate	m3								111.18	109.82	239.30	149.36	250.79	400.15	

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

W0733 Washout Prevention Filter, furnish and laying													Unit: 10.00 m2			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	19.20	0.00	0.00	0.00	19.20	19.20	
M0202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	86.0%	40.0%	82.30	0.00	860.61	0.00	528.37	352.24	860.61	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	90.0%	50.0%	50.0%	0.00	0.00	18.20	16.20	337.36	360.44	317.80	2.0%
	Total									19.20	860.61	16.20	528.37	360.44	817.81	
	Components (%)									2.1%	96.1%	1.8%	58.5%	41.5%	100.0%	
	Unit Rate	m2								1.92	86.06	1.62	52.84	36.04	81.78	

Miscellaneous covers the costs for minor tools, etc.

W0741 Grouted Riprap Class A													Unit: 10.00 m3			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				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	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0129	Gravel/Stone, transported	m3	9.00	11.8%	18.6%	69.6%	44.8%	55.2%	197.00	210.07	330.47	1,232.47	794.76	978.25	1,773.00	Loss 20.0%
W0221	Mortar (1:3)	m3	2.55	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	77.11	4,352.78	211.11	2,694.58	1,946.42	4,641.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	72.91	36.45	36.45	72.91	1.0%
	Total									1,163.98	4,683.24	1,516.49	3,325.78	3,837.93	7,363.71	
	Components (%)									15.8%	63.6%	20.6%	47.9%	52.1%	100.0%	
	Unit Rate	m3								116.34	468.32	151.65	332.58	383.79	736.37	

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

W0742 Stone Masonry, laid													Unit: 10.00 m3			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				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	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	704.00	0.00	0.00	0.00	704.00	704.00	
W0129	Gravel/Stone, transported	m3	8.40	11.8%	18.6%	69.6%	44.8%	55.2%	197.00	198.08	308.44	1,150.30	741.77	913.03	1,654.80	Loss 20.0%
W0222	Mortar (1:2)	m3	3.06	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	105.79	6,733.62	321.00	1,463.30	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	0.00	89.75	49.87	49.87	89.75	1.0%
	Total									1,461.25	7,042.05	1,571.05	4,956.91	5,117.05	10,074.35	
	Components (%)									14.5%	89.9%	15.6%	49.2%	50.8%	100.0%	
	Unit Rate	m3								146.80	706.00	157.50	496.96	511.71	1,010.00	

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

W0751 Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill													Unit: 100.00 each			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	460.80	0.00	0.00	0.00	460.80	460.80	
L007	Masonry	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	518.10	0.00	0.00	0.00	518.10	518.10	
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	928.00	0.00	0.00	0.00	928.00	928.00	
M12012	Concrete Hollow Block (load bearing) 5'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	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	30.83	390.98	262.42	673.40	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	39.00	19.50	19.50	39.00	1.0%
	Total									1,918.99	1,651.58	89.81	740.48	3,098.82	3,979.30	
	Components (%)									48.7%	49.5%	1.8%	18.8%	81.2%	100.0%	
	Unit Rate	each								19.18	16.52	0.70	7.41	31.99	39.43	

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

W0852 Aggregate Subbase Course for Side Walk (r=100mm)													Unit: 100.00 m2			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				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	831.63	
R0306-006	Vibration Hammer, 60w	day	0.85	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	66.34	67.06	80.14	54.16	134.30	
W0122	Crushed Aggregate, transported	m3	13.56	9.2%	16.6%	75.3%	47.0%	83.0%	258.00	322.29	542.96	2,633.23	1,643.45	1,858.03	3,498.48	Loss 32.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,454.47	684.17	3,266.98	2,099.59	3,338.02	5,424.61	
	Components (%)									26.8%	12.6%	60.6%	38.5%	61.8%	100.0%	
	Unit Rate	m2								14.54	6.84	32.67	20.99	33.38	54.25	

W0853 PCC Pavement (Plain), r=100mm for Side Walk													Unit: 100.00 m2			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	2,460.00	0.00	0.00	0.00	2,460.00	2,460.00	
L020	Unskilled Labor	md	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. 38mm)	m3	10.40	2.4%	82.4%	15.2%	55.9%	43.1%	1,570.00	390.63	13,457.80	2,479.77	9,287.30	7,040.70	16,328.00	Loss 4.0%
M07101	Joint Filler (bituminous r=10mm)	m2	2.60	0.0%	100.0%	0.0%	60.0%	40.0%	288.00	0.00	216.00	0.00	432.00	288.00	716.00	
M07111	Joint Sealant (10x10mm)	m	50.00	0.0%	100.0%	0.0%	60.0%	40.0%	62.70	0.00	3,135.00	0.00	1,881.00	1,254.00	3,135.00	
W02011	Structural Steel (Round Bar, SS400)	kg	245.66	0.0%	100.0%	0.0%	70.0%	30.0%	81.80	0.00	4,375.88	0.00	3,763.12	1,612.76	5,375.88	
M08701	Steel Gas Pipe, 25	m	52.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	6,084.00	0.00	3,850.40	2,433.60	6,084.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0%
	Total									7,019.03	28,767.48	2,479.77	19,010.61	19,285.47	41,359.98	
	Components (%)									7.0%	69.6%	8.0%	45.0%	46.6%	100.0%	
	Unit Rate	m2								70.19	287.67	24.80	190.11	192.86	413.60	

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

W0871 Guardrail Type A, furnish													Unit: 8.00 m			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				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	46.08	0.00	0.00	0.00	46.08	46.08	
L009	Welder	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	81						

W1102 Traffic Signal Post Type A (Next Arms) H=8.0m, 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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00											
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00											
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00											
M02031	Steel Pipe	kg	352.49	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	8,424.51	0.00	0.00	0.00	5,897.16	2,527.35	8,424.51		Loss 5.0%	
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,169.29	0.00	0.00	0.00	812.20	348.09	1,169.29		Loss 5.0%	
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	0.00	0.00	129.86	55.66	185.52		Loss 5.0%	
R0901-025	Welding Machine 250A	day	1.20	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00					
R1001-150	Generator 101-150 kW	day	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	0.20	0.0%	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	16.70	26.52	128.98	87.26	84.94	172.20				
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	97.87	2,195.25	2,685.52	2,693.08	2,105.25	4,378.34				30.0%	
	Total									1,512.87	14,487.42	5,139.17	12,551.07	8,588.39	21,100.60					
	Components (%)									7.2%	68.8%	24.3%	59.4%	40.6%	100.0%					
	Unit Rate	each								1,510.05	14,460.38	5,129.58	12,527.84	8,572.38	21,100.60					

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

W1103 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		Total (PP)			
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00										
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00										
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00										
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,337.68	0.00	0.00	0.00	935.38	401.30	1,337.68		Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	424.20	0.00	0.00	296.94	127.26	424.20		Loss 5.0%	
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	0.00	81.80	35.06	116.85		Loss 5.0%	
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00				
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00				
R0602-009	Cargo truck 9.0-10.0t	hr	0.04	0.0%	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	3.34	5.30	25.80	17.46	18.99	34.44			
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	43.30	975.89	1,149.15	1,192.52	975.89	2,169.21				30.0%
	Total									1,162.90	4,978.17	3,253.50	5,032.74	4,363.59	9,400.00				
	Components (%)									12.4%	53.0%	31.5%	53.6%	45.4%	100.0%				
	Unit Rate	each								1,163.45	4,980.51	3,258.03	5,036.11	4,363.69	9,400.00				

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

W1104 Traffic Signal Posts Type C Φ114.3mm x 9.4m, 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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00										
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00										
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00										
M02031	Steel Pipe	kg	45.26	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,081.71	0.00	0.00	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%	70.0%	30.0%	20.20	0.00	424.20	0.00	0.00	296.94	127.26	424.20		Loss 5.0%	
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	0.00	81.80	35.06	116.85		Loss 5.0%	
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00				
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00				
R0602-009	Cargo truck 9.0-10.0t	hr	0.03	0.0%	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	1.02	1.50	7.74	5.25	5.73	10.50			
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	41.78	939.88	1,107.08	1,148.86	939.88	2,069.54				30.0%
	Total									1,160.48	4,685.16	3,205.99	4,806.54	4,245.09	9,051.63				
	Components (%)									12.8%	51.8%	38.4%	53.1%	46.9%	100.0%				
	Unit Rate	each								1,160.27	4,684.32	3,205.41	4,805.68	4,244.32	9,050.00				

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

W1105 Pedestrian Signal Posts Type D Φ114.3mm 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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00										
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	509.00										
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	410.00										
M02031	Steel Pipe	kg	40.01	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	956.24	0.00	0.00	0.00	669.37	286.87	956.24		Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	424.20	0.00	0.00	296.94	127.26	424.20		Loss 5.0%	
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	0.00	81.80	35.06	116.85		Loss 5.0%	
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00				
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00				
R0602-009	Cargo truck 9.0-10.0t	hr	0.03	0.0%	9.7%	15.4%	74.9%	50.7%	49.3%	861.00	2.51	3.98	19.35	13.09	12.74	25.83			
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%	861.00	41.02	923.04	1,087.13	1,128.16	923.04	2,051.20				30.0%
	Total									1,159.73	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	each								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

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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	576.00										
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	509.00										
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	410.00										
M02031	Steel Pipe	kg	231.21	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,523.92	0.00	0.00	0.00	1,657.78	5,523.92			Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	31.08	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	627.82	0.00	0.00	439.47	189.35	627.82			Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)																		

#2001 Heavy Equipment Assembly & Disassembly

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	56.33	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	23,095.30	0.00	0.00	0.00	23,095.30		
R0402-016	Truck Crane Hydraulic 11-15t	hr	28.85	8.5%	8.9%	83.2%	60.5%	49.6%	881.00	2,137.97	2,087.66	12,711.65	12,440.80	26,152.65		
R0402-020	Truck Crane Hydraulic 10-20t	hr	46.64	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	3,485.85	3,834.43	42,477.82	26,822.16	49,797.80		
R0402-025	Truck Crane Hydraulic 31-25t	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		
R0402-030	Truck Crane Hydraulic 20-30t	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		
R0402-035	Truck Crane Hydraulic 31-35t	hr	0.00	4.6%	6.4%	89.1%	52.4%	47.6%	1,680.00	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	1,960.81	1,960.81	2,157.00	1,764.82	3,921.83	4.0%
	Total									28,719.11	7,863.74	65,365.30	40,499.82	61,436.92	101,967.48	
	Components (%)									28,719.11	7,863.74	65,365.30	40,499.82	61,436.92	101,967.48	

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	14.6	0	0	0	0	0	14.60	0.00
	21t	1	21.9	1.78	0	0	0	0	20.86	1.94
Labor = 0.0797Wk + 0.01 Crane operation days = 0.0322Wk + 0.43 Remaining Part Weight Wz = 0.4352Wk + 11.15										
Crawler Crane	22.5t	0	26.6	0	0	0	0	0	20.77	5.83
	25-27t	0	27.8	0	0	0	0	0	20.93	6.87
Labor = 0.2063Wk + 0.05 Crane operation days = 0.0218Wk + 0.64 Remaining Part Weight Wz = 0.1379Wk + 17.10										
	35-37t	5	36.2	37.69	0	0	0	0	22.09	14.11
	40t	0	41.1	0	0	0	0	0	22.77	18.33
	50t	0	49.8	0	0	0	0	0	23.97	25.83
	60t	0	65.6	0	0	0	0	0	28.15	39.45
All Casing Excavator	φ1200max	3	24.0	16.98	2.85	0	0	0	22.36	1.64
	φ1500max	1	35.9	39.9	1.01	0	0	0	24.89	16.01
	φ2000max	0	49.0	0	0	0	0	0	26.34	22.66
Labor = 0.1163Wk + 2.82 Crane operation days = 0.0376Wk + 0.86 Remaining Part Weight Wz = 0.1589Wk + 18.55										
Total				86.33	5.00	6.15	0.00	0.00	0.00	0.00
Operation hours per day				5.71	5.71	5.71	5.71	5.71		

Remaining Part Weight Wb = Wk - Wz

#2002 Transportation of Disassembled Equipment

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				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		
R0604-045	Trailer 40t	hr	38.34	2.4%	8.2%	89.4%	53.0%	46.1%	2,700.00	2,484.43	8,488.48	92,546.09	85,822.72	47,695.28	103,518.00	
R0602-009	Carao truck 9.0-10.0t	hr	46.86	9.7%	15.4%	74.9%	59.7%	49.3%	861.00	3,913.61	6,213.35	30,219.50	20,446.13	19,900.33	40,346.46	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									6,398.04	14,701.83	122,764.59	76,268.85	67,595.60	143,864.46	
	Components (%)									6,398.04	14,701.83	122,764.59	76,268.85	67,595.60	143,864.46	

Equipment	No.	Wz (t)	Wb (t)	n-Wb	Trips of Trailer	Cargo Truck	Travel hour/trip * a + 2*L/V	L	V
Bulldozer	15t	0	14.60	0.00	0	46	4.28 hr	0.50 hr	25.00 km/hr
	21t	1	20.86	1.34	1	46	4.70 hr	0.50 hr	25.00 km/hr
Crawler Crane	22.5t	0	20.77	5.83	0	20	4.70 hr	0.50 hr	25.00 km/hr
	25-27t	0	20.93	6.87	0	20	4.70 hr	0.50 hr	25.00 km/hr
	35-37t	5	22.09	14.11	70.56	0	4.70 hr	0.50 hr	25.00 km/hr
	40t	0	22.77	18.33	0	0	4.70 hr	0.50 hr	25.00 km/hr
	50t	0	23.97	25.83	0	0	4.70 hr	0.50 hr	25.00 km/hr
	60t	0	28.15	39.45	0	0	4.70 hr	0.50 hr	25.00 km/hr
All Casing Excavator	φ1200max	3	22.36	1.64	4.92	0	4.70 hr	0.50 hr	25.00 km/hr
	φ1500max	1	24.89	15.01	15.01	0	4.70 hr	0.50 hr	25.00 km/hr
	φ2000max	0	26.34	22.66	0	0	4.70 hr	0.50 hr	25.00 km/hr
Total Trips					91.82	0			

#2003 Other Equipment & Material Haulage

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
R0604-020	Trailer 20t	hr	4.26	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00	277.48	761.22	6,076.83	3,792.31	3,321.89	7,114.20	
R0602-009	Carao truck 9.0-10.0t	hr	85.20	9.7%	15.4%	74.9%	59.7%	49.3%	861.00	7,116.68	11,297.01	54,944.34	37,174.79	36,182.41	73,367.20	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									7,394.16	11,297.01	61,021.17	41,067.10	39,504.30	81,278.11	
	Components (%)									7,394.16	11,297.01	61,021.17	41,067.10	39,504.30	81,278.11	

Number of Trips Trailer 20t = 1 trip
 Cargo truck 9.0-10.0t = 20 trip
 a: Loading Time = 4.28 hr
 L: Travel Distance = 47.00 km
 V: Travel Speed = 25.00 km/hr

#2004 Establishment of Temporary Site Office & Yard

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
	Temporary Site Office/Yard	m2	8,900.00	10.0%	50.0%	40.0%	45.0%	55.0%	230.00	204,790.00	1,023,950.00	818,800.00	921,150.00	1,125,850.00	2,047,000.00	0.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									204,790.00	1,023,950.00	818,800.00	921,150.00	1,125,850.00	2,047,000.00	
	Components (%)									204,790.00	1,023,950.00	818,800.00	921,150.00	1,125,850.00	2,047,000.00	

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

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0101	Excavation, Bulldozer 2t	m3	10.00	1.6%	8.7%	90.3%	64.3%	46.7%	25.40	4.06	20.57	229.35	137.85	116.15	254.00	0.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									4.06	20.57	229.35	137.85	116.15	254.00	
	Components (%)									4.06	20.57	229.35	137.85	116.15	254.00	

Excavation depth = 0.100

#3002 150mm Thick Concrete Hollow Block Wall

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
L007	Masonry	md	0.46	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	
N12012	Concrete Hollow Block (load bearing) 6"x16" (150x200x400mm)	each	128.00	0.0%	100.0%	0.0%	26.0%	75.0%	12.00	0.00	1,636.00	0.00	384.00	1,162.00	1,636.00	Loss 2.0%
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	25.30	15.4%	76.8%	7.8%	53.9%	46.1%	23.40	91.25	454.61	46.16	318.81	273.21	692.02	Loss 2.0%
W0221	Mortar (1:3)	m3	0.46	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	13.91	785.21	38.08	486.08	351.12	837.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	16.41	18.15	18.05	14.73	32.82	1.0%
	Total									421.56	2,792.23	100.85	1,205.94	2,107.50	3,314.44	
	Components (%)									421.56	2,792.23	100.85	1,205.94	2,107.50	3,314.44	

#3002a 100mm Thick Concrete Hollow Block Wall

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	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	
N12011	Concrete Hollow Block (load bearing) 4"x16" (100x200x400mm)	each	128.00	0.0%	100.0%	0.0%	26.0%									

#3003 Structural Steel Fabrication and Erection for Engineers Office and Living Quarters

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	0.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	0.0%	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%	0.0%	410.00	615.00	0.00	0.00	0.00	615.00	815.00
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	0.0%	320.00	480.00	0.00	0.00	0.00	480.00	480.00
M2014	Structural Steel (Shapes, S3400)	kg	420.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,392.00	0.00	5,174.40	3,217.60	7,392.00
M2015	Structural Steel (Plates, S3400)	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
M2071	High Tension Bolt M16	each	8.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	148.00	0.00	103.00	44.40	148.00
R091-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	274.02	253.98	344.48	343.53	588.00
R1001-100	Generator 51-100 kW	day	1.00	0.0%	48.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,283.64	1,438.46	1,954.40	2,690.00	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	2.86	5.1%	7.3%	87.6%	82.2%	47.8%	1,470.00	214.41	309.91	3,682.88	2,195.28	2,008.92	4,204.20
R0604-020	Trailer 20t	hr	0.21	3.9%	10.7%	85.4%	83.3%	46.7%	1,670.00	13.68	37.52	299.50	186.94	183.76	350.70
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	45.0%		899.73	4,048.77	4,048.77	4,948.50	4,948.77	8,997.27	
	Total								3,019.82	28,146.77	9,821.58	23,455.80	15,532.37	38,988.17	
	Components (%)								7.7%	87.1%	25.2%	60.2%	39.6%	100.0%	
	Unit Rate								3,020.73	28,134.70	9,824.56	23,462.92	15,537.08	39,000.00	

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

#3004 Preprinted Corrugated G.I. Roofing Fabrication & Erection

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	0.0%	576.00	288.00	0.00	0.00	0.00	288.00	288.00
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	0.0%	410.00	615.00	0.00	0.00	0.00	615.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	0.0%	320.00	320.00	0.00	0.00	0.00	320.00	
M1212	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	5.8%	6.8%	87.6%	82.0%	49.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
R0604-020	Trailer 20t	hr	0.24	3.9%	10.7%	85.4%	83.3%	46.7%	1,670.00	2.81	7.18	87.05	35.61	31.19	66.80
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	45.0%		0.00	156.36	156.36	171.99	140.72	312.71	
	Total								1,332.11	12,735.83	1,879.47	8,662.26	7,285.16	15,948.41	
	Components (%)								8.4%	79.9%	11.8%	54.3%	45.7%	100.0%	
	Unit Rate								13.28	126.98	18.74	85.36	72.64	159.00	

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

#3005 Preprinted Steel Wall Panels on Steel Frames with Insulation

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	0.0%	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%	0.0%	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%	0.0%	410.00	615.00	0.00	0.00	0.00	615.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	0.0%	320.00	320.00	0.00	0.00	0.00	320.00	
M1212	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
M1211	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
M2014	Structural Steel (Shapes, S3400)	kg	1,830.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	28,928.00	0.00	18,849.60	8,078.40	26,928.00
M1221	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
R091-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	117.01	176.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	day	0.50	0.0%	48.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,283.64	1,438.46	1,954.40	2,690.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.8%	6.8%	87.6%	82.0%	49.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	45.0%		0.00	311.20	311.20	342.32	280.08	622.40	
	Total								1,584.01	56,405.31	2,872.48	39,035.32	23,822.48	62,862.80	
	Components (%)								2.5%	92.9%	4.6%	62.1%	37.9%	100.0%	
	Unit Rate								15.84	564.41	28.72	390.58	238.42	628.00	

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

#3006 Preprinted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	0.0%	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%	0.0%	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%	0.0%	410.00	615.00	0.00	0.00	0.00	615.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	0.0%	320.00	320.00	0.00	0.00	0.00	320.00	
M1212	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
M1211	Galvanized Iron Sheet, colored	m ²	102.00	0.0%	100.0%	0.0%	50.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00
M2014	Structural Steel (Shapes, S3400)	kg	1,830.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	28,928.00	0.00	18,849.60	8,078.40	26,928.00
M1221	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
R091-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.8%	41.4%	588.00	0.00	117.01	176.99	172.24	121.76	294.00
R1001-100	Generator 51-100 kW	day	0.50	0.0%	48.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,283.64	1,438.46	1,954.40	2,690.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.8%	6.8%	87.6%	82.0%	49.0%	1,330.00	106.51	129.33	1,666.06	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	45.0%		0.00	309.16	309.16	340.08	278.25	618.32	
	Total								1,584.01	57,995.27	2,870.44	38,788.28	23,682.45	62,450.72	
	Components (%)								2.5%	92.9%	4.6%	62.1%	37.9%	100.0%	
	Unit Rate								15.84	580.42	28.72	388.13	238.42	628.00	

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

#3007 Plain Cement Floor Finish

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	
W0221	Mortar (1:3)	m ³	3.06	1.7%	93.8%	4.8%	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%	45.0%		0.00	178.94	178.94	195.84	161.05	357.89	
	Total								488.03	6,402.27	432.28	3,430.33	2,932.25	6,362.99	
	Components (%)								7.7%	85.4%	6.8%	54.3%	45.7%	100.0%	
	Unit Rate								4.88	64.00	4.32	34.29	28.91	63.20	

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

#3008 Plain Cement Floor Finish with non skid cement with groove lines

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					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	0.0				

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3011	Plain Cement Mortar Wall Finish															
L007	Masonry	nd	0.80	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	nd	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	
W0221	Mortar (1:3)	nd	3.00	1.7%	93.8%	4.5%	58.1%	41.9%	1,820.00	92.83	5,223.33	253.34	2,333.49	2,333.71	5,659.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	181.82	181.82	200.00	163.64	363.64	0.0%
	Total									584.03	5,405.75	435.16	3,433.50	2,990.85	6,424.34	
Components (%)										8.1%	84.1%	8.5%	49.2%	48.2%	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.

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3012	Steel Fixed Louver															
L009	Welder	nd	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	nd	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	nd	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	
W02016	Structural Steel (Plates, SS400)	kw	21.42	0.0%	100.0%	0.0%	70.6%	30.0%	20.20	0.00	432.88	0.00	302.88	129.80	432.68	Loss 2.0%
W02017	Welding Machine 250A	hr	0.80	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	187.22	283.19	1,275.52	194.81	470.40	
W02018	Generator 51-100 kW	hr	0.80	0.0%	46.6%	53.4%	59.3%	40.7%	2,890.00	0.00	1,002.83	1,149.17	1,275.52	876.48	2,152.00	
W02019	Truck Crane Hydraulic 16-20t	hr	1.37	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00	102.81	112.87	1,230.41	754.24	711.88	1,465.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	824.13	824.13	908.64	741.71	1,649.25	30.0%
	Total									1,076.81	2,559.73	3,508.89	3,314.78	3,627.57	7,142.43	
Components (%)										15.1%	35.8%	49.1%	49.2%	47.8%	100.0%	
Unit Rate				each						1,078.45	2,559.86	3,509.09	3,315.56	3,628.41	7,140.00	

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

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3013	Doors & Windows for Engineer's Field Office and Living Quarters															
L002	Foreman	nd	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	nd	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	nd	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	
M12261	Steel Door with Steel Panels 900x2100mm	each	7.00	0.0%	100.0%	0.0%	45.0%	55.0%	5,530.00	0.00	38,716.00	0.00	17,419.50	21,296.50	38,716.00	
M12262	Flush Type Hollow Core Door with 6mm thick ordinary plywood 800x2100mm	each	8.00	0.0%	100.0%	0.0%	30.0%	70.0%	2,500.00	0.00	20,000.00	0.00	4,000.00	16,000.00	20,000.00	
M12263	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	
M12264	Jalousie Window with Steel Blades 2100x1500mm	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,780.00	0.00	33,750.00	0.00	15,187.50	18,562.50	33,750.00	
M12265	Jalousie Window with Steel Blades 3900x1500mm	each	16.00	0.0%	100.0%	0.0%	45.0%	55.0%	12,800.00	0.00	200,000.00	0.00	90,000.00	110,000.00	200,000.00	
M12266	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	
M12267	Jalousie Window with Steel Blades 820x250	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	468.00	0.00	2,290.00	0.00	1,030.50	1,259.50	2,290.00	
W3012	Steel Fixed Louver	each	4.00	15.1%	35.8%	49.1%	49.2%	50.8%	7,140.00	4,301.79	10,238.44	14,022.77	14,054.25	14,505.75	28,560.00	0.2%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		16,981.59	321,839.21	14,377.24	146,761.57	208,477.07	356,178.74	
	Total									16,981.59	321,839.21	14,377.24	146,761.57	208,477.07	356,178.74	
Components (%)										8.3%	90.6%	0%	41.3%	58.7%	100.0%	
Unit Rate				L.S.						18,952.04	321,877.95	14,370.01	146,827.84	208,372.16	355,060.00	

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

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3014	Lighting and Powers															
L002	Foreman	nd	1.00	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	
L012	Electrician	nd	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	3,432.00	0.00	0.00	0.00	3,432.00	3,432.00	
L019	Skilled Labor	nd	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	nd	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	
M13130	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	40.00	0.0%	100.0%	0.0%	60.0%	40.0%	496.00	0.00	19,840.00	0.00	11,904.00	7,936.00	19,840.00	
M13141	Ceiling Lamp, SL-18 with Hexless Type, Medium Base Porcelain Accessories	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	131.20	169.80	244.00	
M13152	2 One-way Wall Switches on one Gang Plate	each	11.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	886.50	0.00	487.03	398.48	886.50	
M13153	3 One-way Wall Switches on one Gang Plate	each	5.00	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	35.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	2,896.00	0.00	1,593.90	1,304.10	2,896.00	
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	618.00	0.00	283.80	232.20	618.00	
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	836.90	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	6,323.50	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	14,820.00	9,380.00	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%	55.0%	45.0%	3,610.00	0.00	3,610.00	0.00	2,546.50	1,063.50	3,610.00	
M13161	Concealed or Embedded Conduit Run	m	245.00	0.0%	100.0%	0.0%	50.0%	50.0%	7.82	0.00	1,942.40	0.00	921.20	921.20	1,942.40	
M13162	Underground or Underfloor Conduit Run	m	107.00	0.0%	100.0%	0.0%	50.0%	50.0%	34.00	0.00	3,638.00	0.00	1,819.00	1,819.00	3,638.00	
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	909.00	0.00	7,272.00	0.00	4,363.20	2,908.80	7,272.00	
M13164	Galvanized Steel Lighting Post H=3.5m	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	4,670.00	0.00	37,360.00	0.00	22,416.00	14,944.00	37,360.00	
M13165	Underground or Underfloor Conduit Run	m	175.00	0.0%	100.0%	0.0%	60.0%	40.0%	58.40	0.00	10,220.00	0.00	6,132.00	4,088.00	10,220.00	
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	50.0%	50.0%		135.90	543.80	2,038.48	1,358.99	1,358.99	2,717.99	2.0%
	Total									7,063.90	129,614.50	2,038.48	78,436.76	60,180.11	158,616.86	
Components (%)										5.1%	95.4%	1.5%	42.4%	43.4%	100.0%	
Unit Rate				L.S.						7,063.42	129,872.48	2,044.12	78,653.55	60,348.45	159,050.00	

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

Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W3015	Sewer Water Line															
L002	Foreman	nd	1.00	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															

W3016 Septic Tank

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
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	169.26	883.15	589.75	557.24	1,148.99
W0132	Backfill B	m3	12.25	7.8%	10.0%	82.2%	51.2%	48.8%	111.00	105.60	136.04	1,117.90	696.80	663.25	1,389.75
W0161	Gravel Foundation Fill	m3	0.82	25.2%	13.0%	61.8%	38.8%	51.2%	391.00	80.73	41.75	198.14	124.43	196.19	320.82
W0203	Concrete (Class A, 21MPa, max sz. 38mm)	m3	1.67	2.4%	82.4%	16.2%	56.9%	43.1%	1,570.00	62.73	2,100.98	398.19	1,491.33	1,130.57	2,621.90
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.64	15.6%	0.2%	84.0%	45.0%	55.0%	258.00	60.73	0.83	355.56	190.85	232.57	423.12
W0237	Concrete Curing (reinforced concrete)	m3	1.64	74.0%	7.0%	17.6%	14.0%	86.0%	4.29	5.25	0.54	1.25	0.98	6.05	7.04
W0241	Formwork (reinforced concrete H4m)	m2	6.93	59.1%	39.8%	0.8%	2.9%	97.1%	227.00	938.87	621.90	12.34	45.59	1,527.52	1,573.11
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	182.10	15.4%	76.8%	7.0%	53.9%	48.1%	23.40	656.60	3,272.14	332.21	2,294.85	1,966.49	4,261.14
W3002	150mm Thick Concrete Hollow Block Wall	m2	19.62	12.7%	84.2%	3.8%	39.4%	63.6%	331.00	828.00	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%	63.4%	46.6%	64.20	127.12	1,178.45	94.71	747.31	650.97	1,398.28
	Miscellaneous	LS	1.00							0.68	0.00	0.00	0.00	0.68	
	Total								3,009.93	13,135.31	4,455.94	9,077.31	11,533.77	20,611.08	
	Components (%)								14.6%	84.7%	21.7%	44.0%	55.0%	100.0%	
	Unit Rate	each							3,008.21	13,128.25	4,453.54	9,072.43	11,527.87	20,600.00	

W3017 Cyclone Fence and Gate for the Engineer's Office

Unit: 40.00 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
W0102	Excavation, Backhoe 0.35m3	m3	15.58	6.5%	8.4%	85.1%	51.8%	48.2%	49.40	60.03	84.65	654.97	359.73	370.82	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	50.68	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	1,605.06
W0203	Concrete (Class A, 21MPa, max sz. 38mm)	m3	1.14	2.4%	82.4%	16.2%	56.9%	43.1%	1,870.00	42.82	1,475.16	271.82	1,018.03	771.77	1,789.80
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.6%	0.2%	84.0%	45.0%	55.0%	258.00	45.87	0.67	242.82	130.13	158.83	288.96
W0237	Concrete Curing (reinforced concrete)	m3	1.12	74.0%	7.0%	17.6%	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	59.1%	39.8%	0.8%	2.9%	97.1%	227.00	1,842.51	1,220.48	24.21	89.47	2,997.73	3,067.20
W0251	Steel Pipe, 60	m	10.80	0.0%	100.0%	0.0%	60.0%	40.0%	284.00	0.00	3,175.20	0.00	1,905.12	1,270.08	3,175.20
W0251	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	1,579.76	3,949.40
W0201	Reinforcing Bars, Grade 40	kg	18.50	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	312.00	0.00	202.80	109.20	312.00
W0201	Chain Link Fence Fabric	m	49.00	0.0%	100.0%	0.0%	50.0%	50.0%	1,460.00	0.00	58,400.00	0.00	29,200.00	29,200.00	58,400.00
W002	Foreman	md	0.03	100.0%	0.0%	0.0%	100.0%	100.0%	678.00	46.08	0.00	0.00	0.00	46.08	48.00
W019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	100.0%	100.0%	410.00	131.20	0.00	0.00	0.00	131.20	131.20
W020	Unskilled Labor	md	0.32	100.0%	0.0%	0.0%	100.0%	100.0%	320.00	102.40	0.00	0.00	0.00	102.40	102.40
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	
	Total								2,397.69	68,773.70	2,594.55	36,190.37	37,756.65	73,756.65	
	Components (%)								3.3%	93.2%	3.5%	49.1%	50.9%	100.0%	
	Unit Rate	m							59.61	1,715.48	64.72	907.72	937.28	1,840.00	

W3018 Barbed Wire Fence for the Engineer's Office

Unit: 130.00 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
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	100.0%	100.0%	178.00	149.76	0.00	0.00	0.00	149.76	149.76
L019	Skilled Labor	md	1.04	100.0%	0.0%	0.0%	100.0%	100.0%	410.00	426.40	0.00	0.00	0.00	426.40	
L220	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	100.0%	100.0%	320.00	332.80	0.00	0.00	0.00	332.80	
M0401	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
M0202	Barbed Wire	m	1,060.80	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	2,652.00	0.00	928.20	1,723.80	2,652.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%		0.00	181.82	287.87	239.89	239.89	479.79
	Total								908.96	15,275.92	287.87	2,411.29	14,061.45	16,472.76	
	Components (%)								5.5%	82.7%	1.7%	14.5%	35.4%	100.0%	
	Unit Rate	m							7.01	117.77	2.23	19.59	108.41	127.80	

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

W3101 Miscellaneous for Office & Living Quarter Maintenance

Unit: 36.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
	Flashlight	each	1.00	0.0%	0.0%	100.0%	60.0%	40.0%	235.00	0.00	0.00	235.00	141.00	94.00	235.00
	Broom	each	4.00	0.0%	0.0%	100.0%	10.0%	90.0%	142.00	0.00	0.00	588.00	58.00	511.20	588.00
	Hop Rod with saw	each	4.00	0.0%	0.0%	100.0%	30.0%	70.0%	0.00	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%	30.0%	30.0%	1,100.00	0.00	0.00	1,100.00	770.00	330.00	1,100.00
	Iron Table	each	1.00	0.0%	0.0%	100.0%	30.0%	70.0%	0.00	0.00	0.00	0.00	0.00	0.00	
	Power Planse	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
	Hop Saw	each	144.00	0.0%	100.0%	0.0%	15.0%	85.0%	65.00	0.00	9,360.00	0.00	1,404.00	7,956.00	9,360.00
	Laundry Detergent, 1.6kg	bottle	61.20	0.0%	100.0%	0.0%	28.0%	78.0%	148.00	0.00	9,057.60	0.00	2,264.40	6,793.20	9,057.60
	Bathroom Cleaner, 500ml	bottle	21.60	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	1,188.00	0.00	385.40	803.60	1,188.00
	Power Cleaner, 350g	bottle	32.40	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	745.20	0.00	223.56	521.64	745.20
	Electric Bulb, 60-100W	each	144.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	3,312.00	0.00	1,821.60	1,490.40	3,312.00
	Fluorescent Tube, 20W	each	108.00	0.0%	100.0%	0.0%	60.0%	40.0%	64.00	0.00	6,912.00	0.00	4,147.20	2,764.80	6,912.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	527.07	527.07	527.07	527.07	1,054.13	
	Total								0.00	31,191.87	6,090.07	12,449.03	23,742.91	35,191.93	
	Components (%)								0.0%	85.0%	14.1%	34.4%	65.5%	100.0%	
	Unit Rate	month							0.00	867.95	142.03	347.41	652.99	1,010.00	

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

W3102 Furniture and Fixtures for Field Office

Unit: 1.00 L.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
	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
	Typist 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,	

W3103 Equipment and Appliances 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	
	Typewriter	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	6,600.00	0.00	6,600.00	0.00	4,850.00	1,650.00	6,600.00
	Scientific Calculator	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	940.00	0.00	9,400.00	0.00	6,580.00	2,820.00	9,400.00
	Desk Type Calculator	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	570.00	0.00	570.00	0.00	399.00	171.00	570.00
	Drafting Instrument	set	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,700.00	0.00	1,700.00	0.00	1,390.00	2,310.00	1,700.00
	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%	45,000.00	0.00	135,000.00	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%	1,100.00	0.00	2,200.00	0.00	1,100.00	1,100.00	2,200.00
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	840.00	560.00	1,400.00
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	30.0%	70.0%	480.00	0.00	960.00	0.00	384.00	576.00	960.00
	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%	60.0%		333.75	111.25	1,780.00	1,112.50	2,225.00	1.0%
	Total									333.75	222.61.25	1,780.00	1,112.50	2,225.00	
	Components (%)									0.1%	99.1%	0.8%	7.0%	100.0%	
	Unit Rate	L.S.								321.16	222.82.66	1,782.18	1,113.33	2,226.00.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3105 Furniture and Fixtures for Living Quarters Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
	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	1,660.00	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%	1,850.00	0.00	24,050.00	0.00	4,290.00	17,160.00	24,050.00
	Wardrobe Cabinet	each	8.00	0.0%	100.0%	0.0%	15.0%	85.0%	3,500.00	0.00	28,000.00	0.00	4,320.00	24,480.00	28,000.00
	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+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
	Cuboard	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, I.D 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%	283.00	0.00	16,398.78	0.00	10,139.27	6,259.51	16,398.78
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		321.67	107.22	1,715.89	1,072.24	2,144.49	1.0%
	Total									321.67	214,556.00	1,715.89	69,121.51	215,593.27	
	Components (%)									0.1%	99.1%	0.8%	7.0%	100.0%	
	Unit Rate	L.S.								322.28	214,556.81	1,718.91	69,301.41	217,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3108 Equipment and Appliances for Living Quarters Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
	Mattress	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	1,080.00	0.00	13,780.00	0.00	2,057.00	11,713.00	13,780.00
	Pillow	each	13.00	0.0%	100.0%	0.0%	10.0%	90.0%	230.00	0.00	2,990.00	0.00	299.00	2,691.00	2,990.00
	Bed Sheets	each	82.00	0.0%	100.0%	0.0%	10.0%	90.0%	130.00	0.00	10,760.00	0.00	1,300.00	9,460.00	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	398.00	3,042.00	3,380.00
	Wafersator, 10 cut	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,800.00	0.00	14,800.00	0.00	11,175.00	3,725.00	14,800.00
	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	5,040.00	3,360.00	8,400.00
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	2,100.00	0.00	4,200.00	0.00	2,520.00	1,680.00	4,200.00
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	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%	70.0%	30.0%	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	693.82	433.70	867.40	1.0%
	Total									130.11	86,752.37	693.82	34,896.70	87,607.40	
	Components (%)									0.1%	99.1%	0.8%	6.9%	100.0%	
	Unit Rate	L.S.								130.10	86,776.04	693.86	34,892.75	87,600.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3111 Office & Living Quarters Supplies 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	
	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	26.00	0.0%	100.0%	0.0%	50.0%	50.0%	38.00	0.00	988.00	0.00	494.00	494.00	988.00
	Color Pencils, 12 colors	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	88.00	0.00	88.00	0.00	22.13	65.87	88.00
	Pencil Sharpener, manually operated	each	1.00	0.0%	100.0%	0.0%	30.0%	70.0%	400.00	0.00	400.00	0.00	200.00	200.00	400.00
	Triangular Ruler	set	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
	Triangular Scale, 300mm	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
	Convex, 3.5m	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
	Measuring Tape, 50m steel	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
	Steel Ruler, 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
	Lavel, L=600mm	each	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	98.00	9.00	98.00	0.00	24.00	74.00	98.00
	Scissors	each	1.00	0.0%	100.0%	0.0%	35.0%	65.0%	40.00	0.00	160.00	0.00	136.00	24.00	160.00
	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	2.50	0.0%	100.0%	0.0%	20.0%	80.0%	33.00	0.00	82.50	0.00	13.20	69.30	82.50
	Flashlight	each	9.00	0.0%	100.0%	0.0%	30.0%	70.0%	235.00	0.00	2,115.00	0.00	634.50	1,480.50	2,115.00
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%		42.13	14.04	224.71	126.40	280.89	2.0%
	Total									42.13	14,056.54	224.71	7,268.23	14,325.39	
	Components (%)									0.3%	99.1%	1.0%	6.0%	100.0%	
	Unit Rate														

W3112 Office & Living Quarter Consumables

Unit: 1.00 month

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
Stapler, No. 35	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.30	0.00	14.30	0.00	3.58	10.73	14.30		
Stapler, No. 10	box	3.00	0.0%	100.0%	0.0%	25.0%	75.0%	4.50	0.00	13.80	0.00	3.38	10.13	13.80		
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	256.00	0.00	103.20	154.80	256.00		
Masking 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	4.87	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 Slim 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, A8 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		
Copy 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, A4 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		
Typewriter Ribbon, Black/Red	each	1.00	0.0%	100.0%	0.0%	20.0%	80.0%	17.50	0.00	17.50	0.00	7.00	10.50	17.50		
Envelope, Letter, long x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	19.50	0.00	429.00	0.00	42.90	386.10	429.00		
Envelope, Letter, short x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	13.00	0.00	286.00	0.00	28.60	257.40	286.00		
Envelope, A4 size	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	35.00	0.00	385.00	0.00	38.50	346.50	385.00		
Dry Batterry, AA x 4 pcs	pack	6.00	0.0%	100.0%	0.0%	30.0%	70.0%	32.00	0.00	192.00	0.00	57.60	134.40	192.00		
Penner Clip, 50x	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		
Blinder Clip, 12 x 3/4"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	11.50	0.00	23.00	0.00	4.60	17.40	23.00		
Blinder Clip, 12 x 1"	box	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	23.50	0.00	47.00	0.00	9.40	37.60	47.00		
Blinder Clip, 12 x 1 1/2"	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		
Blinder Clip, 12 x 2"	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		
Globe, Tube 30x	each	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	14.00	0.00	28.00	0.00	7.00	21.00	28.00		
Fluores. Disk, 1.44MB 2HD 3.5" x 10 pcs	box	2.00	0.0%	100.0%	0.0%	20.0%	75.0%	41.00	0.00	82.00	0.00	123.00	73.80	155.80		
CD Rewritable, 640MB	each	3.00	0.0%	100.0%	0.0%	60.0%	40.0%	41.00	0.00	123.00	0.00	49.20	73.80	123.00		
Printer Cartridge	each	0.33	0.0%	100.0%	0.0%	65.0%	35.0%	7,500.00	0.00	2,475.00	0.00	1,608.75	866.25	2,475.00		
Toner	tube	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,800.00	0.00	3,600.00	0.00	2,160.00	1,440.00	3,600.00		
Toilet Paper, 9 rolls	each	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 Doodrann	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		
Instect Spray, 350ml	bottle	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	140.00	0.00	420.00	0.00	63.00	357.00	420.00		
Sone, 135x	each	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	21.00	0.00	231.00	0.00	34.65	196.35	231.00		
Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%	47.75	15.92	254.84	143.24	175.07	319.30	47.75	2.0%	
Total								47.75	15.92	254.84	143.24	175.07	319.30	47.75		
Components (%)								0.3%	98.1%	1.6%	35.6%	64.1%	100.0%			
Unit Rate								47.65	15,898.24	254.12	5,765.00	10,435.00	16,200.00			

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

W3501 Relocation of Existing Lighting Poles

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount (PP)					Total (PP)	Remarks
				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%	58.3%	896.00	133.84	70.60	279.39	197.05	286.79	483.84	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	2.39	24.9%	6.8%	68.6%	41.6%	58.4%	59.80	55.66	9.43	97.83	59.39	83.53	142.92	
W0226	Disposal of Demolished Debris	m3	0.54	18.5%	12.9%	70.6%	46.3%	52.2%	138.00	12.25	8.59	82.65	54.84	39.68	74.82	
W0130	Backfill C	m3	2.93	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	49.39	50.18	326.26	209.51	215.34	424.85	
W0105	Excavation, Backhoe 0.61m3	m3	3.15	4.5%	8.4%	87.1%	62.9%	47.1%	40.90	5.80	10.82	112.22	68.13	60.71	128.84	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.52	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	3.99	7.14	37.27	24.69	23.82	48.41	
W0133	Backfill C	m3	2.63	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	44.33	45.04	291.98	188.06	193.29	381.35	
W0101	Gravel Foundation Fill	m3	0.05	25.2%	13.0%	61.8%	38.8%	61.2%	391.00	4.92	2.85	12.08	7.59	11.96	19.55	Loss 2.0%
W0203	Concrete (Class A, 21Mpa, max exs.38mm)	m3	0.55	2.4%	82.4%	15.2%	66.9%	43.1%	1,570.00	20.66	711.70	131.14	491.16	372.94	883.50	
W0235	Concrete Pouring by Manpower for small structures	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	120.71	0.24	2.17	1.33	121.79	123.12	
W0236	Concrete Curing (slain concrete)	m3	0.54	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.45	0.42	0.99	0.78	4.09	4.87	
W0240	Formwork (slain concrete H4x)	m2	3.80	59.3%	40.0%	0.8%	2.9%	97.1%	224.00	477.88	322.20	6.32	23.54	782.86	806.40	
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	218.88	0.00	0.00	0.00	218.88	218.88	
L012	Electrician	md	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	189.78	0.00	0.00	0.00	189.78	189.78	
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	
RO402-D10	Truck Crane, Hydraulic 6-10t	hr	1.91	18.5%	9.3%	75.2%	46.9%	83.1%	496.00	143.88	86.33	696.05	435.76	450.00	928.28	
QO405-D13	Lift Car, 12-13m	hr	0.95	8.9%	3.0%	90.1%	54.1%	45.9%	1,180.00	77.66	33.43	1,009.91	608.23	514.77	1,121.00	
Miscellaneous	LS	1.50	10.0%	30.0%	60.0%	50.0%	50.0%	49.59	148.78	297.56	247.96	247.96	247.96	495.93	8.0%	
Total								1,831.66	1,508.46	3,354.86	2,599.23	4,098.76	6,690.00	1,831.66		
Components (%)								27.4%	22.5%	60.1%	38.5%	61.2%	100.0%			
Unit Rate								1,830.31	1,507.33	3,352.35	2,594.20	4,095.70	6,690.00			

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

W3502 Relocation of Underground Conduit

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	72.00	24.9%	6.8%	68.6%	41.6%	58.4%	59.80	1,074.17	284.23	2,947.20	1,789.25	2,618.35	4,305.80	
W0133	Backfill C	m3	72.00	11.6%	11.8%	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	
W0105	Excavation, Backhoe 0.61m3	m3	72.00	4.5%	8.4%	87.1%	62.9%	47.1%	40.90	132.52	247.36	2,584.92	1,557.17	1,387.85	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	1,507.58	5,025.51	3,276.66	6,695.34	9,972.00	
W0133	Backfill C	m3	36.00	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	608.83	618.51	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	
W0261	Electric Cable	m	103.00	0.0%	100.0%	0.0%	55.0%	45.0%	82.30	0.00	8,418.90	0.00	3,829.30	2,887.61		

W3504 Relocation of Sewer Pipe											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	22.87	24.9%	6.6%	68.6%	41.6%	58.4%	59.80	341.20	90.28	936.15	568.34	799.29	1,367.63
W0133	Backfill C	m ³	22.87	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	385.51	391.66	2,538.99	1,680.80	1,680.80	3,316.15
W0105	Excavation, Backhoe 0.61m ³	m ³	22.87	4.5%	8.4%	87.1%	82.9%	47.1%	40.90	42.09	78.57	814.72	494.62	440.76	935.38
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	5.02	2.4%	82.4%	15.2%	58.9%	43.1%	1,570.00	188.65	6,495.88	1,198.97	4,482.91	3,398.49	7,881.40
W0235	Concrete Pouring by Manpower for small structures	m ³	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	1,099.76	2.20	19.80	12.10	1,109.66	1,121.76
W0236	Concrete Curine (plain concrete)	m ³	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	31.48	3.87	9.03	7.10	37.28	44.38
W0182	Salicited Sand Fill	m ³	8.86	34.5%	15.1%	60.4%	32.9%	57.1%	217.00	846.35	371.03	1,236.83	805.42	1,647.80	2,454.22
W0133	Backfill C	m ³	4.43	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	76.98	77.58	502.91	323.92	323.92	658.85
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	18.34	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	140.81	251.96	1,314.68	877.92	829.53	1,707.45
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), Fabrication ϕ 610	m	10.00	10.4%	88.7%	20.9%	53.6%	46.4%	1,100.00	1,139.76	7,561.84	2,298.41	5,891.75	5,108.25	11,000.00
W0342	Precast Concrete Pipe Laving ϕ 610	m	10.00	46.0%	8.3%	45.8%	29.5%	70.5%	246.00	1,132.64	201.68	1,125.77	724.95	1,735.05	2,460.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									5,424.41	15,828.56	11,994.25	15,825.37	17,119.85	32,945.22
	Components (%)									16.5%	47.1%	36.4%	48.0%	52.0%	100.0%
	Unit Rate	m								541.79	1,550.53	1,197.78	1,560.35	1,709.54	3,290.00

W3511 Repair & Maintenance of Existing Access Road											Unit: 100.00 m ²				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	960.00	0.00	0.00	0.00	960.00	960.00
W0122	Crushed Aggregate, transported	m ³	19.80	8.2%	15.5%	75.3%	47.0%	53.0%	258.00	470.59	792.82	3,844.98	2,399.73	2,798.67	5,108.40
R0307-000	Plate Connector	day	0.85	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	117.35	545.65	372.62	290.38	863.00
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		161.55	323.11	323.11	323.11	484.66	607.77
	Total									1,592.15	1,233.28	4,719.74	3,095.46	4,443.71	7,539.17
	Components (%)									21.1%	16.4%	62.5%	41.1%	55.9%	100.0%
	Unit Rate	m ²								15.92	12.33	47.14	30.96	44.44	75.40

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

W4101 Environmental Compliance											Unit: 1.00 km				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
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%	95,979.00	47,989.50	47,989.50	0.00	0.00	95,979.00	1,850.12
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		390.02	780.05	780.05	780.05	1,170.07	2.0%
	Total									49,911.02	48,765.05	780.05	780.05	98,676.07	98,656.12
	Components (%)									50.2%	49.0%	0.8%	49.0%	95.2%	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											Unit: 1.00 day				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
	Health and safety Requirements	day	1.00	10.0%		35.0%	40.0%	60.0%	686.00	68.60	377.30	240.10	274.40	411.60	686.00
	Miscellaneous	LS	1.00							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%	40.0%	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											Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	4.70	24.9%	6.6%	68.6%	41.6%	58.4%	59.80	70.12	18.55	192.33	116.60	164.26	281.06
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.60	8.2%	14.8%	77.0%	51.4%	48.6%	93.10	4.61	8.24	43.01	28.72	27.14	55.86
W0133	Backfill C	m ³	4.10	11.6%	11.8%	76.6%	49.3%	50.7%	145.00	69.11	70.21	458.17	293.18	301.32	594.80
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m ³	0.61	2.4%	82.4%	15.2%	56.9%	43.1%	1,570.00	22.81	769.34	145.45	544.74	412.96	957.70
W0235	Concrete Pouring by Manpower for small structures	m ³	0.60	98.0%	0.2%	1.8%	1.1%	98.9%	228.00	134.12	0.27	2.41	1.48	135.32	136.80
W0236	Concrete Curine (plain concrete)	m ³	0.60	70.9%	8.7%	20.4%	16.0%	84.0%	9.02	3.84	0.47	1.10	0.87	4.54	5.41
W0240	Formwork (plain concrete H4m)	m ²	4.80	69.3%	40.0%	0.8%	2.9%	97.1%	224.00	637.17	429.60	8.43	31.39	1,043.81	1,075.20
W07201	Traffic Sign Board (aluminum)	m ²	6.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,281.80	28,690.20	81,972.00
W08708	Steel Gas Pipe, ϕ 125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	603.00	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%	50.0%	60.0%		245.36	1,090.73	1,090.73	1,363.41	1,363.41	2,726.82
	Total									1,669.60	90,013.01	1,935.69	59,029.63	34,578.18	93,620.71
	Components (%)									1.9%	96.1%	2.1%	63.1%	36.9%	100.0%
	Unit Rate	each								1,668.63	89,893.11	1,933.27	59,029.47	34,578.53	93,600.00

Miscellaneous covers the costs for fixtures, paints, etc.