

5. Summary of Basic Work Costs

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0001	Grass Cutting	m2	90.9%	0.9%	8.2%	4.5%	95.5%	1.09	
W0002	Tree Cutting	m2	92.6%	0.7%	6.7%	3.7%	96.3%	0.91	
W0003	Grubbing	m2	4.0%	7.9%	88.1%	53.0%	47.0%	24.90	
W0004	Burning	m2	100.0%	0.0%	0.0%	0.0%	100.0%	1.90	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	12.5%	7.5%	80.0%	48.2%	51.8%	1,280.00	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	
W0014	Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)	m3	46.2%	11.0%	42.8%	30.3%	69.7%	1,680.00	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	3.4%	6.5%	90.1%	53.2%	46.8%	56.50	
W0016	Excavation of Gravel Pavement	m3	4.4%	8.4%	87.2%	52.9%	47.1%	10.30	
W0025	Disposal of Demolished Debris	m3	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	
W0101	Excavation, Bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	25.30	
W0102	Excavation, Backhoe 0.35m3	m3	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	
W0105	Excavation, Backhoe 0.61m3	m3	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	
W0107	Excavation, Clamshell + Backhoe	m3	7.9%	8.1%	84.1%	52.8%	47.2%	91.50	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	3.4%	6.5%	90.1%	53.2%	46.8%	185.00	
W0109	Excavation, Manpower	m3	100.0%	0.0%	0.0%	0.0%	100.0%	132.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	
W0115	Disposal of Surplus Soil (manpower loading)	m3	45.7%	10.8%	43.5%	30.6%	69.4%	103.00	
W0121	Borrow Soil, transported	m3	6.7%	23.0%	70.3%	47.8%	52.2%	181.00	
W0122	Crushed Aggregate, transported	m3	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	
W0123	Excavated Soil, transported	m3	7.4%	13.5%	79.1%	51.8%	48.2%	66.30	
W0128	Selected Sand, transported	m3	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	
W0129	Gravel/Stone, transported	m3	11.5%	18.6%	69.8%	45.4%	54.6%	216.00	
W0131	Backfill A	m3	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	
W0132	Backfill B	m3	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	
W0133	Backfill C	m3	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	
W0134	Backfill D	m3	13.3%	12.6%	74.1%	48.5%	51.5%	200.00	
W0135	Backfill, Manpower + Compactor	m3	78.1%	5.6%	16.3%	12.5%	87.5%	76.40	
W0141	Filling & Laying, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	
W0142	Filling & Laying, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	29.50	
W0145	Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	
W0146	Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	26.10	
W0147	Compaction, tire roller 8~20t	m3	4.3%	8.0%	87.7%	52.7%	47.3%	10.40	
W0148	Compaction, tamper	m3	12.4%	17.3%	70.3%	49.4%	50.6%	76.10	
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	
W0150	Filling, Laying & Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	51.60	
W0151	Slope Formation by Bulldozer	m2	7.5%	7.4%	85.1%	51.1%	48.9%	39.60	
W0152	Slope Formation by Backhoe	m2	9.9%	7.9%	82.2%	49.8%	50.2%	48.00	
W0161	Gravel Foundation Fill	m3	24.0%	13.4%	62.7%	39.7%	60.3%	413.00	
W0162	Selected Sand Fill	m3	32.3%	15.4%	52.2%	34.3%	65.7%	297.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	2.7%	78.5%	18.8%	56.4%	43.6%	1,510.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	3.0%	75.9%	21.1%	56.1%	43.9%	1,390.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.6%	80.1%	17.4%	56.7%	43.3%	1,620.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.4%	81.3%	16.3%	56.9%	43.1%	1,690.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.4%	81.9%	15.8%	56.9%	43.1%	1,720.00	
W0205	Concrete (Class A1, 28MPa, max agg. 25mm)	m3	2.3%	81.7%	15.9%	57.7%	42.3%	1,770.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.2%	83.0%	14.8%	57.8%	42.2%	1,860.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.9%	85.3%	12.8%	58.3%	41.7%	2,140.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.8%	77.9%	19.3%	57.1%	42.9%	1,530.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	
W0221	Mortar (1:3)	m3	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	
W0222	Mortar (1:2)	m3	1.5%	93.6%	4.9%	58.1%	41.9%	2,350.00	
W0225	Grout (non-shrink)	m3	1.0%	96.2%	2.8%	61.2%	38.8%	3,060.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.1%	0.2%	70.7%	37.9%	62.1%	508.00	
W0234	Concrete Pouring by Truck Crane	m3	30.6%	5.8%	63.6%	38.4%	61.6%	281.00	
W0235	Concrete Pouring by Manpower for small concrete	m3	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	
W0240	Formwork (plain concrete H<4m)	m2	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	47.1%	33.6%	19.3%	13.6%	86.4%	283.00	
W0243	Formwork (lean concrete)	m2	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	
W0244	Formwork for Bridge Superstructures	m2	57.7%	26.8%	15.5%	11.1%	88.9%	354.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	62.6%	21.6%	15.8%	11.4%	88.6%	468.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ460 (18")	m	9.7%	66.2%	24.2%	53.5%	46.5%	531.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ610 (24")	m	9.9%	66.5%	23.6%	53.5%	46.5%	875.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ760 (30")	m	10.0%	66.6%	23.4%	53.4%	46.6%	1,300.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ910 (36")	m	10.5%	67.1%	22.5%	53.4%	46.6%	2,000.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1070 (42")	m	10.5%	67.1%	22.4%	53.4%	46.6%	2,620.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1220 (48")	m	10.5%	67.1%	22.5%	53.4%	46.6%	3,300.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1520 (60")	m	10.5%	67.1%	22.4%	53.4%	46.6%	4,920.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ460 (18")	m	10.4%	68.3%	21.4%	53.6%	46.4%	584.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ610 (24")	m	10.3%	68.2%	21.4%	53.6%	46.4%	957.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ760 (30")	m	10.2%	68.2%	21.6%	53.6%	46.4%	1,340.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ910 (36")	m	10.8%	68.6%	20.6%	53.5%	46.5%	2,150.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1070 (42")	m	10.7%	68.5%	20.8%	53.5%	46.5%	2,710.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1220 (48")	m	10.7%	68.5%	20.8%	53.5%	46.5%	3,510.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1520 (60")	m	10.8%	68.6%	20.7%	53.5%	46.5%	5,220.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ460 (18")	m	10.4%	68.2%	21.4%	53.6%	46.4%	752.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610 (24")	m	10.2%	68.2%	21.6%	53.6%	46.4%	1,120.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ760 (30")	m	10.3%	68.3%	21.4%	53.6%	46.4%	1,660.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ910 (36")	m	10.8%	68.2%	21.0%	53.5%	46.5%	2,650.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42")	m	11.2%	68.5%	20.3%	53.4%	46.6%	3,980.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48")	m	10.8%	68.2%	21.0%	53.5%	46.5%	4,340.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1520 (60")	m	11.2%	68.4%	20.5%	53.4%	46.6%	7,520.00	
W0341	Precast Concrete Pipe Laying φ460 (18")	m	46.9%	8.1%	45.0%	28.9%	71.1%	200.00	
W0342	Precast Concrete Pipe Laying φ610 (24")	m	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	
W0343	Precast Concrete Pipe Laying φ760 (30")	m	46.9%	8.1%	45.0%	29.0%	71.0%	301.00	
W0344	Precast Concrete Pipe Laying φ910 (36")	m	31.0%	8.6%	60.4%	37.7%	62.3%	513.00	
W0345	Precast Concrete Pipe Laying φ1070 (42")	m	31.4%	8.6%	60.0%	37.4%	62.6%	590.00	
W0346	Precast Concrete Pipe Laying φ1220 (48")	m	31.2%	8.6%	60.2%	37.6%	62.4%	661.00	
W0347	Precast Concrete Pipe Laying φ1520 (60")	m	26.8%	8.5%	64.7%	40.0%	60.0%	934.00	
W0351	Precast Concrete Pipe Removal φ460 (18")	m	46.3%	5.9%	47.8%	29.3%	70.7%	61.50	
W0352	Precast Concrete Pipe Removal φ610 (24")	m	44.9%	6.1%	49.1%	30.1%	69.9%	75.30	
W0353	Precast Concrete Pipe Removal φ760 (30")	m	46.2%	5.9%	47.9%	29.4%	70.6%	92.80	
W0354	Precast Concrete Pipe Removal φ910 (36")	m	30.7%	6.4%	62.8%	37.9%	62.1%	158.00	
W0355	Precast Concrete Pipe Removal φ1070 (42")	m	31.2%	6.4%	62.4%	37.6%	62.4%	182.00	
W0356	Precast Concrete Pipe Removal φ1220 (48")	m	30.9%	6.4%	62.7%	37.8%	62.2%	204.00	
W0357	Precast Concrete Pipe Removal φ1520 (60")	m	26.7%	6.3%	67.0%	40.1%	59.9%	288.00	
W0401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	199.00	
W0402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	255.00	
W0403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	169.00	
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	
W0411	Temporary Struts & Supports Installation	t	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	
W0412	Temporary Struts & Supports Removal	t	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	
W0413	Temporary Struts & Tie Rod Installation	t	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	
W0414	Temporary Struts & Supports Removal	t	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	
W0415	Temporary Deck Plate Installation	m2	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	
W0416	Temporary Deck Plate Removal	m2	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	
W0417	Temporary Deck Plate Support Beam Installation	t	36.7%	9.5%	53.8%	35.2%	64.8%	1,240.00	
W0418	Temporary Deck Plate Support Beam Removal	t	38.0%	8.2%	53.8%	34.3%	65.7%	740.00	
W0421	Temporary Access Bridge Superstructure Installation	t	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	
W0422	Temporary Access Bridge Superstructure Removal	t	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	
W0423	Temporary Access Bridge Railing Installation	m	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	
W0424	Temporary Access Bridge Railing Removal	m	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	
W0431	Temporary Drain Pump Installation & Removal	set	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	
W0432	Temporary Drain Pump Operation	day	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	
W0441	Temporary Frame Support Installation & Removal	m3	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	

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			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0442	Temporary Frame Support Depreciation	m ³ ·d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	
W0501	Ground Assembly of Structural Steel Bridge	t	11.4%	3.1%	85.5%	48.2%	51.8%	1,260.00	
W0502	Erection of Structural Steel Bridge Members	t	10.8%	4.8%	84.4%	48.4%	51.6%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.4%	93.3%	2.3%	66.1%	33.9%	43.60	
W0504	Finish Painting of Structural Steel Bridge	m ²	42.1%	48.8%	9.1%	36.3%	63.7%	132.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.5%	91.3%	4.2%	48.3%	51.7%	16,000.00	
W0506	Site Welding for Steel Bridge	m	23.4%	34.6%	42.0%	44.5%	55.5%	3,120.00	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	76.3%	11.8%	11.8%	13.0%	87.0%	841.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	313.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	5.9%	93.9%	0.2%	65.0%	35.0%	934.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.2%	91.6%	0.2%	62.8%	37.2%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	96.0%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.5%	1.7%	70.7%	29.3%	2,060.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	6.0%	74.3%	19.7%	55.3%	44.7%	2,140.00	
W0551	Precast PC Girder Erection (W < 12.5t)	t	25.1%	3.9%	70.9%	41.1%	58.9%	218.00	
W0552	Precast PC Girder Erection (12.5 ≤ W < 15.0t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	230.00	
W0553	Precast PC Girder Erection (15.0 ≤ W < 17.5t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	218.00	
W0554	Precast PC Girder Erection (17.5 ≤ W < 20t)	t	21.4%	3.4%	75.3%	43.1%	56.9%	198.00	
W0555	Precast PC Girder Erection (20.0 ≤ W < 35.0 t)	t	15.3%	3.6%	81.0%	46.4%	53.6%	213.00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t	7.3%	1.8%	90.9%	50.5%	49.5%	377.00	
W0557	Precast PC Girder Erection (60.0 ≤ W < 75.0 t)	t	6.2%	1.8%	92.0%	51.1%	48.9%	423.00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	t	5.7%	1.8%	92.5%	51.4%	48.6%	430.00	
W0601	Pier Protection Concrete Block Type A Production & Laying	each	14.2%	62.1%	23.7%	50.3%	49.7%	3,070.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.6%	61.7%	23.6%	50.1%	49.9%	2,930.00	
W0603	Pier Protection Concrete Block Type C Production & Laying	each	14.6%	61.5%	23.8%	50.0%	50.0%	2,880.00	
W0611	Stone Laying	m ³	9.9%	14.5%	75.6%	47.7%	52.3%	400.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m ³	34.3%	17.8%	47.9%	35.4%	64.6%	426.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.4%	44.6%	31.0%	39.2%	60.8%	7,840.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m ³	29.2%	30.0%	40.8%	37.5%	62.5%	172.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.6%	29.2%	46.2%	39.9%	60.1%	8,330.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m ³	28.0%	28.7%	43.3%	38.0%	62.0%	179.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m ³	21.4%	40.6%	38.0%	41.2%	58.8%	93.90	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m ³	29.7%	28.8%	41.5%	37.3%	62.7%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.4%	17.7%	58.9%	41.0%	59.0%	335,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,080.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	4,980.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	114.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.5%	84.4%	4.1%	60.4%	39.6%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	0.9%	92.4%	6.7%	71.0%	29.0%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.3%	87.5%	6.2%	68.3%	31.7%	9,560.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.2%	84.7%	4.1%	60.6%	39.4%	152,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.0%	86.7%	8.3%	67.1%	32.9%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.1%	23.4%	36.5%	34.6%	65.4%	823.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0682	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Transversal)	each	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	90.4%	8.3%	62.9%	37.1%	117.00	
W0702	Precast Concrete Cover (580x480x70),	each	89.3%	1.1%	9.6%	5.4%	94.6%	10.30	
W0703	Precast Concrete Cover (680x580x75), furnish	each	4.2%	90.3%	5.4%	60.7%	39.3%	189.00	
W0704	Precast Concrete Cover (680x580x75),	each	89.3%	0.0%	10.7%	5.4%	94.6%	10.30	
W0711	Iron Step for Drop Inlet Manholes, furnish & installation	each	8.0%	86.1%	5.9%	63.0%	37.0%	58.40	
W0712	Iron Step for Special Junction Box Manholes, furnish & installation	each	8.5%	85.5%	5.9%	62.5%	37.5%	54.40	
W0716	Steel Grate for Manhole Inlet, furnish & installation	kg	38.3%	55.0%	6.7%	39.0%	61.0%	30.30	
W0721	Grating Cover for U-Ditch (W=300mm), furnish & installation	m2	9.0%	90.1%	1.0%	63.2%	36.8%	1,140.00	
W0731	Rubble Concrete	m3	6.3%	50.1%	43.6%	52.5%	47.5%	956.00	
W0732	Granular Bedding for Rubble Concrete	m3	26.5%	12.8%	60.8%	38.2%	61.8%	422.00	
W0733	Washout Prevention Filter, furnish and laying	m2	2.1%	96.2%	1.8%	58.6%	41.4%	91.70	
W0741	Grouted Riprap Class A	m3	15.4%	62.5%	22.0%	48.1%	51.9%	755.00	
W0742	Stone Masonry, laid	m3	14.2%	69.0%	16.8%	49.3%	50.7%	1,020.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.2%	49.9%	1.8%	19.0%	81.0%	39.10	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	25.7%	12.9%	61.4%	39.3%	60.7%	56.60	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	16.7%	68.9%	7.0%	46.1%	46.5%	418.00	
W0871	Guardrail Type A, furnish	m	8.0%	78.8%	13.2%	59.1%	40.9%	902.00	
W0872	Guardrail Type B, furnish	m	9.2%	76.5%	14.3%	58.1%	41.9%	707.00	
W0882	Chain Link Fence 25mm mesh (H=1.87m), furnished	m	7.1%	81.7%	11.3%	60.2%	39.8%	876.00	
W0911	Digging Out Tree, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	18.60	
W0912	Digging Out Tree, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	35.70	
W0913	Digging Out Tree, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	63.00	
W0921	Tree Haulage, Low Tree H≤1.5m	each	13.5%	19.3%	67.2%	49.0%	51.0%	25.60	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	48.30	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	84.20	
W0931	Tree Planting, Low Tree H≤1.5m	each	100.0%	0.0%	0.0%	0.0%	100.0%	9.11	
W0932	Tree Planting, Medium Tree 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	27.20	
W0933	Tree Planting, High Tree (young tree) 1.5m<H≤3.0m	each	100.0%	0.0%	0.0%	0.0%	100.0%	113.00	
W0951	Precast Curbstone for Planter Square, Furnish	m	13.0%	68.0%	18.9%	50.0%	50.0%	47.30	
W0952	Precast Curbstone for Planter Square, Laying	m	96.2%	3.1%	0.8%	1.9%	98.1%	34.40	
W0956	Treading Prevention Board for Planter Square, Furnish	m2	13.5%	71.4%	15.1%	51.8%	48.2%	249.00	
W0957	Treading Prevention Board for Planter Square, Laying	m2	93.5%	4.6%	2.0%	3.3%	96.7%	32.20	
W1001	Underground Cable Duct	m	13.0%	67.6%	19.4%	47.2%	52.8%	366.00	
W1011	Electric Cable Laying	m	21.8%	76.3%	1.9%	42.8%	57.2%	83.80	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	6.8%	68.9%	24.3%	59.7%	40.3%	22,400.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.1%	68.1%	24.8%	59.4%	40.6%	21,300.00	
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	12.2%	53.0%	34.9%	53.7%	46.3%	9,410.00	
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	12.6%	51.7%	35.7%	53.2%	46.8%	9,070.00	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	12.8%	51.1%	36.0%	53.0%	47.0%	8,900.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.4%	60.2%	29.4%	56.6%	43.4%	16,600.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.1%	60.9%	29.0%	56.8%	43.2%	17,200.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	23.4%	8.2%	68.4%	42.3%	57.7%	47,000.00	
W2002	Transportation of Disassembled Equipment	LS	3.8%	9.7%	86.5%	53.3%	46.7%	144,000.00	
W2003	Other Equipment & Material Haulage	LS	9.0%	15.4%	75.6%	51.1%	48.9%	162,000.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	550,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.5%	8.2%	90.3%	54.4%	45.6%	2.53	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.5%	84.3%	3.1%	36.5%	63.5%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.6%	83.0%	3.5%	37.5%	62.5%	305.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.6%	66.5%	25.8%	60.1%	39.9%	39,400.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	8.2%	79.7%	12.1%	54.4%	45.6%	160.00	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	2.5%	92.9%	4.6%	62.1%	37.9%	628.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W3006	Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)	m2	2.5%	92.9%	4.6%	62.1%	37.9%	624.00	
W3007	Plain Cement Floor Finish	m2	7.6%	85.2%	7.2%	54.3%	45.7%	63.50	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.1%	84.8%	7.2%	54.0%	46.0%	63.80	
W3009	Unglazed Tile Finish (8" x 8")	m2	1.6%	97.9%	0.5%	60.2%	39.8%	589.00	
W3010	Gypsum Board Ceiling	m2	1.6%	97.9%	0.5%	60.2%	39.8%	351.00	
W3011	Plain Cement Mortar Wall Finish	m2	8.9%	83.9%	7.1%	53.5%	46.5%	64.50	
W3012	Steel Fixed Louver	each	14.8%	35.9%	49.2%	49.3%	50.7%	7,120.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L.S.	5.2%	90.7%	4.1%	41.3%	58.7%	355,000.00	
W3014	Lighting and Powers	L.S.	5.0%	93.5%	1.5%	56.6%	43.4%	138,000.00	
W3015	Sewer Water Line	L.S.	4.4%	94.9%	0.7%	49.8%	50.2%	115,000.00	
W3016	Septic Tank	each	14.3%	63.6%	22.1%	44.2%	55.8%	20,700.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.2%	93.2%	3.6%	49.1%	50.9%	1,840.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.4%	92.8%	1.7%	14.7%	85.3%	127.00	
W3019	Temporary Office Rental	month	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	0.0%	84.6%	15.4%	34.5%	65.5%	1,020.00	
W3102	Furniture and Fixtures for Field Office	L.S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L.S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L.S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L.S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L.S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L.S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L.S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US\$1.50 million
W3501	Relocation of Existing Lighting Poles	each	26.9%	22.6%	50.5%	39.0%	61.0%	6,700.00	
W3502	Relocation of Underground Conduit	m	17.9%	24.6%	57.6%	44.8%	55.2%	451.00	
W3503	Relocation of Watermain	m	5.2%	76.8%	18.1%	55.7%	44.3%	1,470.00	
W3504	Relocation of Sewer Pipe	m	16.1%	46.7%	37.2%	48.2%	51.8%	3,350.00	
W3511	Repair & Maintenance of Existing Access Road	m2	20.3%	16.6%	63.1%	41.6%	58.4%	79.40	
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%	97,700.00	
W4111	Health and Safety Requirements	day	10.0%	55.0%	35.0%	40.0%	60.0%	674.00	
W4121	Overseas Development Assistance (ODA) Recognition Plate	each	1.8%	96.1%	2.1%	63.1%	36.9%	93,600.00	
W4201	Contingency	L.S.	15.0%	45.0%	40.0%	50.0%	50.0%	1,900,000.00	

B. Breakdown of Basic Work Cost

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

#0001 Grass Cutting Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	666.00	215.08	0.00	0.00	0.00	0.00	215.08	215.08	
L019	Skilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	685.10	0.00	0.00	0.00	0.00	685.10	685.10	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	0.00	94.20	94.20	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	89.49	49.72	89.49	49.72	99.44	10.0%	
	Total									994.38	9.54	89.49	49.72	1,044.10	1,093.82		
	Components (%)									90.9%	0.9%	8.2%	4.5%	95.5%	100.0%		
	Unit Rate	m ²								0.99	0.01	0.09	0.05	1.04	1.09		

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

#0002 Tree Cutting Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	181.12	0.00	0.00	0.00	181.12	181.12		
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	463.45	0.00	0.00	0.00	463.45	463.45		
L020	Unskilled Labor	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	200.95	0.00	0.00	0.00	200.95	200.95		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	6.76	60.88	33.82	33.82	67.64	8.0%	
	Total									845.53	6.76	60.88	33.82	879.35	913.17		
	Components (%)									92.8%	0.7%	6.7%	3.7%	96.2%	100.0%		
	Unit Rate	m ²								0.85	0.01	0.06	0.03	0.89	0.91		

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

#0003 Grubbing Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	96.22	0.00	0.00	0.00	96.22	96.22		
L020	Unskilled Labor	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	53.38	0.00	0.00	0.00	53.38	53.38		
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	6.40	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	518.40	1,347.84	15,413.76	9,258.46	8,021.54	17,280.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.30	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	329.21	628.49	6,524.30	3,956.38	3,525.62	7,482.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total									997.21	1,976.33	21,938.06	13,214.84	11,696.76	24,911.60		
	Components (%)									4.0%	7.9%	88.1%	53.0%	47.0%	100.0%		
	Unit Rate	m ²								1.00	1.98	21.93	13.21	11.69	24.90		

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

#0004 Burning Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	367.90	0.00	0.00	0.00	367.90	367.90		
L020	Unskilled Labor	md	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,139.82	0.00	0.00	0.00	1,139.82	1,139.82		
L020	Unskilled Labor	md	1.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	385.64	0.00	0.00	0.00	385.64	385.64		
	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									1,903.36	0.00	0.00	0.00	1,903.36	1,903.36		
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
	Unit Rate	m ²								1.93	0.00	0.00	0.00	1.93	1.93		

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

#0011 Demolition by Crawler Drill (Lightly Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00		
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20		
R0202-060	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	1,295.00	703.04	591.96	1,295.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.50	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	191.40	365.40	3,983.20	2,300.22	2,049.78	4,329.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	30.90	33.99	27.81	61.79	1.0%		
	Total									725.50	396.30	5,119.10	3,037.24	3,203.59	6,249.59		
	Components (%)									11.6%	6.3%	82.0%	48.7%	51.5%	100.0%		
	Unit Rate	m ³								72.55	39.62	511.83	303.68	320.32	624.90		

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

#0012 Demolition by Crawler Drill (Heavily Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60		
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00		
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	593.80	0.00	0.00	0.00	593.80	593.80		
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	2,538.20	1,377.95	1,160.25	2,538.20		
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.90	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	375.14	716.18	7,454.67	4,508.43	4,017.57	8,526.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	245.75	245.75	270.33	221.18	491.50	4.0%	
	Total									1,598.54	961.94	10,218.62	6,156.71	6,622.38	12,179.13		
	Components (%)									12.5%	7.5%	80.0%	48.2%	51.8%	100.0%		
	Unit Rate	m ³								160.12	96.35	1,023.53	616.68	663.32	1,280.00		

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

#0013 Demolition by Pneumatic Handheld Breaker (Lightly Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	305.60	0.00	0.00	0.00	305.60	305.60		
L019	Skilled Labor	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80		
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,287.40	0.00	0.00	0.00	1,287.40	1,287.40		
R0204-020	Pneumatic Breaker, Handhold	day	4.20	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	1,919.40	1,042.11	877.29	1,919.40		
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m ³ /min)	day	2.10	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,220.14	3,168.86	2,511.92	1,877.08	4,389.00		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	87.43	87.43	96.18	78.69	174.88	2.0%	
	Total									2,434.80	1,307.57	5,178.69	3,650.20	5,267.86	8,918.08		
	Components (%)									27.3%	14.7%	56.0%	40.9%	59.1%	100.0%		
	Unit Rate	m ³								243.53	130.79	517.68	365.10	526.90	892.00		

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

#0014 Demolition by Pneumatic Handheld Breaker (Heavily Reinforced Structures) Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,471.60	0.00	0.00	0.00	1,471.60	1,471.60		
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00		
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,788.20	0.00	0.00	0.00	3,788.20	3,788.20		
L020	Unskilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,166.60	0.00	0.00	0.00	2,166.60	2,166.60		
R0204-020	Pneumatic Breaker, Handhold	day	5.80	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	2,650.60	1,439.10	1,211.50	2,650.60		
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m ³ /min)	day	2.90	0.0%	27.8%	72.2%											

#0016 Excavation of Gravel Pavement

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.59	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	45.17	66.23	895.20	542.85	483.75	1,626.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									45.17	66.23	895.20	542.85	483.75	1,626.60	
	Components (%)									4.4%	8.4%	87.2%	52.9%	47.1%	100.0%	
	Unit Rate									0.45	0.87	8.98	5.45	4.85	10.30	

Q = 3600 * q * f * E / C_m
 Q : Excavation capacity per hour = 42.48 m3/hr
 q : Standard capacity per cycle = 0.59 m3/cycle
 f : Volume coefficient = 1.00
 C_m : Cycle Time = 30.00 sec
 Gravel Pavement Thickness = 0.250 m
 E : Efficiency = 0.60

#0025 Disposal of Demolished Debris

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.28	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	21.44	40.92	424.84	257.82	229.58		
R0501-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.26	10.0%	17.9%	72.1%	50.3%	49.2%	603.00	75.98	138.00	847.80	385.80	373.98	759.78	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									223.01	178.93	912.64	643.43	729.15	1,372.58	
	Components (%)									16.2%	12.9%	70.9%	46.9%	53.1%	100.0%	
	Unit Rate									22.28	17.66	97.08	64.22	72.78	137.60	

Q = 3600 * q * f * E / C_m (Backhoe)
 Q : Excavation capacity per hour = 35.4 m3/h
 q : Excavation Volume per hour = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.50
 C_m : Cycle Time = 30 sec
 Q = q * f * E / C_m (Dump Truck)
 Q : Transportation Volume per hour = 7.91 m3/hr
 q : Loading Capacity of a Truck = 5.30 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.50
 C_m : 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

Item No.	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/doozer (Bulldozer, 21t)	hr	0.61	1.3%	8.2%	90.3%	54.4%	45.6%	4,150.00	37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50	
	Components (%)									1.3%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate									0.38	2.07	22.85	13.75	11.54	25.30	

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

#0102 Excavation, Backhoe 0.35m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0102-035	Backhoe, hydraulic, crawler, 0.35m3	hr	4.08	6.4%	8.4%	85.2%	51.8%	48.2%	1,210.00	315.96	414.69	4,206.15	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	0.0%
	Total									315.96	414.69	4,206.15	2,557.58	2,379.22	4,936.80	
	Components (%)									6.4%	8.4%	85.2%	51.8%	48.2%	100.0%	
	Unit Rate									3.16	4.15	42.08	25.59	23.51	49.40	

Q = 3600 * q * f * E / C_m
 Q : Excavation capacity per hour = 24.48 m3/hr
 q : Standard capacity per cycle = 0.34 m3/cycle
 f : Volume coefficient = 1.00
 E : Efficiency = 0.60
 C_m : Cycle Time = 36.00 sec

#0105 Excavation, Backhoe 0.61m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.35	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	179.92	343.48	3,565.61	2,162.21	1,926.79	4,089.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									179.92	343.48	3,565.61	2,162.21	1,926.79	4,089.00	
	Components (%)									4.4%	8.4%	87.2%	52.9%	47.1%	100.0%	
	Unit Rate									1.80	3.44	35.66	21.63	19.27	40.90	

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

#0106 Excavation, Backhoe 0.61m3 + Manpower

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.27	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	20.67	39.46	409.67	248.42	221.38	469.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									146.27	39.46	409.67	248.42	346.93	595.40	
	Components (%)									24.6%	6.6%	68.3%	41.7%	58.3%	100.0%	
	Unit Rate									14.62	3.94	40.94	24.83	34.67	59.50	

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

#0107 Excavation, Clanshell + Backhoe

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
Q0105-006	Clanshell, crawler, 0.6m3	hr	2.90	2.9%	8.3%	88.8%	56.3%	43.7%	2,330.00	195.26	861.21	6,006.53	3,801.78	2,955.22	6,757.00	
R0102-010	Backhoe, hydraulic, crawler, 0.11m3	day	0.50	10.1%	8.5%	81.4%	49.7%	50.3%	4,160.00	210.08	176.80	1,693.12	1,053.75	1,046.25	2,089.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									719.34	738.01	7,699.65	4,855.53	4,315.47	9,151.00	
	Components (%)									7.9%	8.1%	84.1%	52.8%	47.2%	100.0%	
	Unit Rate									7.19	7.38	76.93	48.35	43.15	91.50	

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

#0108 Excavation, Backhoe 0.61m3 + Crawler Drill

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	62.78	119.85	1,244.17	754.47	672.33	1,426.80	
R0202-000	Crawler Drill	hr	0.82	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	424.76	230.60	194.16	424.76	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									62.78	119.85	1,668.93	985.07	866.49	1,851.56	
	Components (%)									3.4%	6.5%	90.1%	53.2%	46.5%	100.0%	
	Unit Rate									6.27	11.98	166.75	98.42	86.58	185.00	

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

#0109 Excavation, Manpower

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

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

W0111 Disposal of Surplus Soil (backhoe loading)

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	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	155.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	10.51	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	621.68	1,112.93	4,432.41	3,156.93	3,060.10	6,216.99	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									757.20	1,371.53	7,167.99	4,785.39	4,511.34	9,296.79		
Components (%)									8.1%	14.8%	77.1%	51.5%	48.2%	100.0%		
Unit Rate			m3						1.37	13.72	71.71	47.87	45.13	93.00		

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

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

W0115 Disposal of Surplus Soil (manpower loading)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	62.11	111.18	447.61	315.38	305.71	621.09	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									470.31	111.18	447.61	315.38	715.91	1,029.29		
Components (%)									47.0%	10.8%	43.3%	30.6%	59.4%	100.0%		
Unit Rate			m3						47.06	11.13	44.81	31.56	71.44	103.00		

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

W0121 Borrow Soil, transported

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
M03001	Quarry Royalty (Borrow Soil)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.88	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	143.93	274.78	2,852.49	1,729.77	1,541.43	3,271.20	
R0601-009	Dump Truck, 9.0-12.0 cu-yds (6.9-9.2m3)	hr	17.58	8.0%	17.9%	74.1%	51.9%	48.1%	756.00	1,063.24	2,379.00	8,848.26	6,896.53	6,391.95	13,290.48	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									1,207.17	4,153.78	12,700.73	8,628.30	9,433.38	18,061.68		
Components (%)									6.7%	23.0%	70.3%	47.8%	52.2%	100.0%		
Unit Rate			m3						12.10	41.53	127.28	86.47	94.33	181.00		

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

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 5.69 m3/hr
 q : Loading Capacity of a Truck = 9.00 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 L : Loading time = 0.27 hr
 L : Average Distance from Quarry = 17.40 km

W0122 Crushed Aggregate, transported

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)	
M03003	Quarry Royalty (Aggregate)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00		
R0716-010	Aggregate Crusher 100t/hr	hr	2.24	0.0%	5.5%	94.5%	54.1%	45.9%	2,700.00	0.00	332.64	5,715.36	3,272.89	2,775.11	6,048.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	14.60	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	874.35	1,565.09	6,304.06	4,439.78	4,303.72	8,743.50	
	Miscellaneous	LS	1.00	25.0%	25.0%	50.0%	40.0%	60.0%	135.00	136.02	272.04	217.63	326.45	544.08		
Total									2,541.17	4,358.09	20,848.92	13,115.59	14,628.99	27,748.18	2.0%	
Components (%)									9.2%	15.7%	76.1%	47.3%	52.7%	100.0%		
Unit Rate			m3						25.37	43.51	208.13	130.97	146.03	277.00		

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

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

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 6.90 m3/hr
 q : Loading Capacity of a Truck = 5.90 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 L : Loading time = 0.27 hr
 L : Average Distance from Quarry = 7.50 km

W0123 Excavated Soil, transported

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	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	155.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	5.89	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	355.17	635.75	1,803.47	1,248.20	1,748.20	3,561.67	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									490.68	894.45	4,489.06	3,432.02	3,199.45	6,631.47		
Components (%)									7.4%	13.5%	79.1%	51.8%	48.2%	100.0%		
Unit Rate			m3						4.91	8.94	44.89	34.31	31.99	66.30		

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

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 16.97 m3/hr
 q : Loading Capacity of a Truck = 6.60 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 L : Loading time = 0.27 hr
 L : Average Distance from Quarry = 1.20 km

W0124 Selected Sand, transported

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)	
M03002	Quarry Royalty (Sand, Pebbles)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	166.14	317.17	3,292.50	1,996.59	1,779.21	3,775.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00		
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	166.14	317.17	3,292.50	1,996.59	1,779.21	3,775.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.9m3)	hr	12.96	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	781.49	1,359.86	5,634.53	3,986.24	3,846.64	7,814.88	
	Miscellaneous	LS	1.00	25.0%	25.0%	50.0%	40.0%	60.0%	135.00	136.02	272.04	217.63	326.45	544.08		
Total									2,284.62	3,640.98	12,395.18	8,105.15	10,218.64	18,324.79	2.0%	
Components (%)									12.5%	19.9%	67.7%	44.2%	55.8%	100.0%		
Unit Rate			m3						22.82	36.36	123.82	80.94	102.06	183.00		

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

Q = 3600-q·f·E/Cm (Backhoe)
 Q : Excavation Volume per hour = 46.02 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.85
 Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
 Q : Transportation Volume per hour = 7.71 m3/hr
 q : Loading Capacity of a Truck = 7.71 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm: Cycle Time = A + 2·L/V
 V : Vehicle speed = 30.00 km/hr
 L : Loading time = 0.27 hr
 L : Average Distance from Quarry = 7.50 km

W0129 Gravel/Stone, transported 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)
M03004	Quarry Royale (Gravel/Stone)	m ³	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00	1,099.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
R0601-006	Dump Truck, 8.0-9.0 cu-yds (4.6-6.5m ³)	hr	14.50	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	874.35	1,565.09	6,304.96	4,439.78	4,303.72	5,743.50	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	84.82	126.94	211.56	189.25	225.87	423.12	2.0%	
Total									2,489.77	4,016.37	15,073.05	9,798.32	11,780.90	21,379.22		
Components (%)									11.5%	15.6%	69.3%	45.4%	54.6%	100.0%		
Unit Rate			m ³						24.92	40.20	150.88	96.08	117.92	216.00		

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

- Q = 3600-q-f-E/Cm (Backhoe)
- Q : Excavation Volume per hour = 35.4 m³/hr
- q : Excavation Volume per Cycle = 0.59 m³
- f : Volume Coefficient = 1.00
- E : Efficiency = 0.50
- Cm : Cycle Time = 30 sec
- Q = q-f-E/Cm (Dump Truck)
- Q : Transportation Volume per hour = 6.90 m³/hr
- q : Loading Capacity of a Truck = 5.90 m³
- f : Volume Coefficient = 1.00
- E : Efficiency = 0.90
- Cm : Cycle Time = A + 2-L/V
- V : Vehicle speed = 30.00 km/hr
- A : Loading time = 0.27 hr
- L : Average Distance from Quarry = 7.50 km

W0131 Backfill A 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, 0.61m ³	hr	2.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	153.12	292.32	3,934.56	1,940.18	1,639.82	3,480.00	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	2.00	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	162.00	421.20	4,916.80	2,893.27	2,506.73	5,400.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									315.12	713.52	7,851.36	4,733.44	4,146.56	8,880.00		
Components (%)									3.5%	8.0%	88.4%	53.3%	46.7%	100.0%		
Unit Rate			m ³						3.15	7.14	78.51	47.33	41.47	88.80		

W0132 Backfill B 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	1.72	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	540.08	0.00	0.00	0.00	540.08	540.08	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.80	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	214.37	409.25	4,248.38	2,576.25	2,295.75	4,872.00	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.20	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	97.20	252.72	2,890.08	1,735.95	1,504.04	3,240.00	
R0307-000	Plate Compactor	hr	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	
R0306-006	Vibration Rammer, 6in	day	0.28	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.85	22.39	26.40	17.84	44.24	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									851.65	1,114.57	9,183.70	5,706.36	5,423.58	11,229.92		
Components (%)									7.7%	10.0%	82.3%	51.3%	48.7%	100.0%		
Unit Rate			m ³						8.49	11.12	91.39	56.91	54.99	111.00		

W0133 Backfill C 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	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,350.20	0.00	0.00	0.00	1,350.20	1,350.20	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	306.24	584.64	6,068.12	3,680.35	3,279.65	5,960.00	
R0307-000	Plate Compactor	hr	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,076.87	5,007.13	3,419.36	2,664.64	6,084.00	
R0306-006	Vibration Rammer, 6in	day	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	54.64	55.96	66.00	44.60	110.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									1,658.44	1,716.14	11,132.22	1,165.72	7,239.08	14,584.60		
Components (%)									11.4%	11.8%	78.7%	49.4%	50.6%	100.0%		
Unit Rate			m ³						16.58	17.16	111.22	71.63	73.37	145.00		

W0134 Backfill D 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	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	6.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	459.36	876.96	9,103.68	5,520.53	4,919.47	10,440.00	
R0307-000	Plate Compactor	hr	8.00	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,104.48	5,135.52	3,507.84	2,732.96	6,240.00	
R0306-006	Vibration Rammer, 6in	day	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	546.36	559.64	660.00	445.86	1,106.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									2,657.36	2,527.80	14,798.84	9,587.97	10,296.41	19,984.00		
Components (%)									13.3%	12.6%	74.1%	48.5%	51.5%	100.0%		
Unit Rate			m ³						26.59	25.30	148.11	96.95	103.05	200.00		

W0135 Backfill, Manpower + Compactor 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	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60	
R0307-000	Plate Compactor	hr	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.86	124.80	
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									399.60	43.16	124.30	95.60	668.48	764.06		
Components (%)									78.1%	5.6%	16.3%	12.5%	87.5%	100.0%		
Unit Rate			m ³						59.66	4.32	12.43	9.56	66.84	76.40		

W0141 Filling & Laying, bulldozer 15t Unit: 100.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.02	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	82.62	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									82.62	214.81	2,456.57	1,475.57	1,278.43	2,754.00		
Components (%)									0.8%	7.8%	89.3%	53.6%	46.4%	100.0%		
Unit Rate			m ³						0.83	2.15	24.53	14.73	12.77	27.50		

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

W0142 Filling & Laying, 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	0.71	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	44.20	241.61	2,660.69	1,602.96	1,343.54	2,948.50	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									44.20	241.61	2,660.69	1,602.96	1,343.54	2,948.50		
Components (%)									1.5%	8.2%	90.3%	54.4%	45.6%	100.0%		
Unit Rate			m ³						9.44	2.42	25.64	16.35	13.43	29.50		

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

W0145 Compaction, bulldozer 15t Unit: 100.00 m³

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount				
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W0145 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	0.63	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	39.22	214.39	2,360.89	1,422.35	1,192.15	2,614.50	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								39.22	214.39	2,360.89	1,422.35	1,192.15	2,614.50		
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%		
	Unit Rate	m3							0.39	2.14	23.57	14.20	11.90	26.10		

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	0.53	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	44.90	83.53	915.68	550.54	493.56	1,044.10	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								44.90	83.53	915.68	550.54	493.56	1,044.10		
	Components (%)								4.3%	8.0%	87.7%	52.7%	47.3%	100.0%		
	Unit Rate	m3							0.45	0.83	9.12	5.48	4.92	10.40		

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

W0148 Compaction, Laser 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	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	84.20	0.00	0.00	0.00	94.20	94.20
R0305-006	Vibration Hammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66
R0307-000	Plate Compactor	day	0.60	0.0%	17.7%	82.3%	66.2%	43.3%	780.00	0.00	110.45	513.35	350.70	273.30	824.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								84.20	131.52	535.14	376.16	384.70	780.88	
	Components (%)								12.4%	17.3%	78.3%	49.4%	50.6%	100.0%	
	Unit Rate	m3							9.42	13.13	53.52	37.62	38.48	78.10	

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

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	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	84.04	459.41	5,059.06	3,047.89	2,554.61	5,602.50	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								84.04	459.41	5,059.06	3,047.89	2,554.61	5,602.50		
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%		
	Unit Rate	m3							0.84	4.59	50.57	30.47	25.53	56.00		

Q = Q1 * Q2 / (Q1 + Q2)
 Q1 = V * 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 * F * (18 * D + 13)
 Q2 : Filling Volume per hour = 140.00 m3/hr
 F : 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	402.23	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	0.0%	
	Total								154.71	402.23	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							1.55	4.02	46.03	27.63	23.93	51.60		

Q = Q1 * Q2 / (Q1 + Q2)
 Q1 = V * 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 * F * (13 * D + 9)
 Q2 : Filling Volume per hour = 98.00 m3/hr
 F : 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%	56.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
R0101-015	Tractor, crawler w/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	0.0%	
	Total								286.60	294.84	3,371.76	2,025.29	1,754.71	3,962.30		
	Components (%)								7.5%	7.4%	85.1%	51.1%	48.9%	100.0%		
	Unit Rate	m2							2.86	2.95	33.70	20.25	19.36	39.60		

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%	56.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	218.80	0.00	0.00	0.00	218.80	218.80	
R0102-063	Backhoe, hydraulic, crawler, 0.61md	hr	2.60	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	195.06	380.02	3,944.93	2,392.23	2,131.77	4,524.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								475.46	380.02	3,944.93	2,392.23	2,131.77	4,800.40		
	Components (%)								9.9%	7.9%	82.2%	49.8%	50.2%	100.0%		
	Unit Rate	m2							4.75	3.80	39.45	23.92	21.32	48.00		

W0161 Gravel Foundation Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
R0122	Crushed Aggregate, transported	m3	12.00	12.3%	19.9%	67.7%	44.2%	55.8%	271.00	304.41	522.06	2,497.53	1,571.62	1,752.38	3,324.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%	271.00	0.00	30.08	90.23	66.17	54.14	120.30	3.0%
	Total								890.51	552.14	2,587.75	1,637.78	2,492.62	4,139.40		
	Components (%)								24.0%	15.4%	62.7%	39.7%	60.3%	100.0%		
	Unit Rate	m3							99.04	55.21	258.75	163.78	249.24	413.00		

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

W0162 Selected Sand Fill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
R0128	Selected Sand, transported	m3	12.00	12.3%	19.9%	67.7%	44.2%	55.8%	183.00	273.78	435.35	1,485.88	971.90	1,224.70	2,196.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%	183.00	0.00	21.62	64.85	47.55	38.91	86.46	3.0%
	Total								969.88	457.94	1,530.74	1,018.88	1,949.71	2,968.56		
	Components (%)								32.3%	15.4%	62.2%	34.3%	65.7%	100.0%		
	Unit Rate	m3							96.03	45.82	153.13	101.94	195.08	297.00		

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

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	0.00	33.96	33.96
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	0.00	69.08	69.08
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	6,892.50	4,455.00	11,137.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.59	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	116.44	199.69	959.30	801.14	670.29	1,271.43	Loss 10.0%
W0128	Selected Sand, transported	m3	3.19	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	72.78	115.99	395.00	258.20	325.57	583.77	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	Loss 2.0%
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	29.55	132.96	132.96	147.73	147.73	295.47	2.0%	
Total									414.11	11,826.40	2,828.45	8,506.19	6,562.77	15,068.96		
Components (%)									2.7%	78.5%	18.8%	56.4%	43.6%	100.0%		
Unit Rate			m3						41.50	1,185.08	282.85	852.37	657.63	1,510.00		

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

- Cement = 324.00 kg/m3 Plant Daily Operation = 5.53 hr
- Aggregate (max 20mm) = 1,106.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
- Sand = 757.00 kg/m3 Transportation Time = 2*L/V + .16 = 0.35 hr
- Water = 175.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	2.93	0.0%	100.0%	0.0%	50.0%	40.0%	3,375.00	0.00	9,888.75	0.00	5,933.25	3,955.50	9,888.75	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.48	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	139.01	238.41	1,140.54	717.71	800.25	1,517.96	Loss 10.0%
W0128	Selected Sand, transported	m3	2.70	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	61.60	98.17	334.32	218.54	275.56	494.10	Loss 10.0%
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	Loss 2.0%
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	29.55	132.96	132.96	147.73	147.73	295.47	2.0%	
Total									423.30	10,575.37	2,943.06	7,821.47	6,120.26	13,941.73		
Components (%)									3.0%	75.9%	21.1%	56.1%	43.9%	100.0%		
Unit Rate			m3						42.20	1,054.37	293.43	779.81	610.19	1,390.00		

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 = 681.00 kg/m3 Transportation Time = 2*L/V + .16 = 0.35 hr
- Water = 155.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.86	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,885.00	0.00	7,371.00	4,914.00	12,285.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.52	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	114.66	196.64	940.74	591.98	660.06	1,252.04	Loss 10.0%
W0128	Selected Sand, transported	m3	3.14	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	71.64	114.17	388.81	254.15	320.46	574.62	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	Loss 2.0%
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	31.78	143.03	143.03	158.92	158.92	317.85	2.0%	
Total									413.43	12,978.11	2,817.73	9,192.67	7,017.63	16,210.30		
Components (%)									2.8%	72.4%	17.4%	56.7%	43.3%	100.0%		
Unit Rate			m3						41.32	1,297.99	281.60	918.68	701.32	1,620.00		

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

- Cement = 357.00 kg/m3 Plant Daily Operation = 5.53 hr
- Aggregate (max 40mm) = 1,089.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
- Sand = 746.00 kg/m3 Transportation Time = 2*L/V + .16 = 0.35 hr
- Water = 175.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.86	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,065.00	0.00	8,019.00	5,246.00	13,265.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.08	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	103.50	177.50	949.16	534.15	595.81	1,130.16	Loss 10.0%
W0128	Selected Sand, transported	m3	3.14	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	76.20	121.44	413.57	270.35	340.87	611.22	Loss 10.0%
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	70.0%	30.0%	66.20	0.00	122.47	0.00	12.25	110.22	122.47	Loss 2.0%
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	33.11	149.01	149.01	165.56	165.56	331.12	2.0%	
Total									408.16	13,722.33	2,756.92	9,964.03	7,283.38	16,887.42		
Components (%)									2.4%	81.3%	16.3%	56.9%	43.1%	100.0%		
Unit Rate			m3						40.85	1,373.26	275.90	961.12	728.88	1,690.00		

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

- Cement = 378.00 kg/m3 Plant Daily Operation = 5.53 hr
- Aggregate (max 40mm) = 984.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
- Sand = 793.00 kg/m3 Transportation Time = 2*L/V + .16 = 0.35 hr
- Water = 185.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
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%	15.7%	75.1%	47.3%	52.7%	277.00	94.11	161.40	772.15	465.89	541.		

#0205 Concrete (Class AA1, 28MPa, max agg. 25mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,690.00	0.00	7,614.00	5,076.00	12,690.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.70	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	119.23	204.47	978.20	615.55	686.35	1,301.90	Loss 10.0%
W0128	Selected Sand, transported	m3	2.76	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	62.97	100.36	341.75	223.40	261.68	505.08	Loss 10.0%
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	34.74	156.34	156.34	173.71	173.71	347.43	2.0%	
Total									412.28	14,485.00	2,821.48	10,216.74	7,502.08	17,718.80		
Components (%)									2.3%	81.7%	15.9%	57.7%	42.3%	100.0%		
Unit Rate			m3						41.18	1,446.97	281.85	1,020.69	749.41	1,710.00		

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

- Cement = 365.00 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 = 0.35 hr
- Water = 155.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.92 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0205 Concrete (Class AA2, 28MPa, max agg. 20mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,533.75	0.00	8,120.25	5,413.50	13,533.75	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.15	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	105.28	180.55	863.73	543.52	606.03	1,149.55	Loss 10.0%
W0128	Selected Sand, transported	m3	3.00	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	68.45	109.08	371.47	242.83	306.17	549.09	Loss 10.0%
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23	
M03401	Admixture	kg	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,180.00	0.00	826.00	354.00	1,180.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	36.37	163.68	163.68	181.86	181.86	363.72	2.0%	
Total									405.44	15,400.70	2,744.06	10,750.41	7,819.79	18,550.20		
Components (%)									2.3%	83.0%	14.8%	57.8%	42.2%	100.0%		
Unit Rate			m3						40.65	1,544.20	275.14	1,076.92	784.08	1,860.00		

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

- Cement = 393.00 kg/m3 Plant Daily Operation = 5.53 hr
- Aggregate (max 20mm) = 999.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
- Sand = 714.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.35 hr
- Water = 165.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.98 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0208 Concrete (Class PP, 41MPa, max agg. 20mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,166.25	0.00	9,699.75	6,466.50	16,166.25	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	3.88	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	100.96	173.15	828.35	521.25	591.21	1,102.46	Loss 10.0%
W0128	Selected Sand, transported	m3	3.01	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	68.67	109.45	372.71	243.63	307.20	550.83	Loss 10.0%
M01010	Water Supply	m3	1.55	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	
M03401	Admixture	kg	12.04	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,420.72	0.00	994.50	426.22	1,420.72	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	42.02	193.37	193.37	210.98	210.98	423.16	2.0%	
Total									407.00	18,285.66	2,735.31	12,484.11	8,943.48	21,427.87		
Components (%)									1.9%	85.3%	12.8%	58.3%	41.7%	100.0%		
Unit Rate			m3						40.66	1,826.18	273.17	1,248.82	893.15	2,140.00		

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

- Cement = 470.00 kg/m3 Plant Daily Operation = 5.53 hr
- Aggregate (max 20mm) = 960.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
- Sand = 714.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.35 hr
- Water = 155.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 1.18 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0211 Concrete (for PCC Pavement, 24.1MPa, max agg. 50mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	3.08	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.50	0.00	6,198.50	4,131.00	10,327.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.62	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	142.57	244.50	1,169.67	736.04	820.70	1,556.74	Loss 10.0%
W0128	Selected Sand, transported	m3	2.41	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	64.98	87.53	298.42	195.07	245.96	441.03	Loss 10.0%
M01010	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	
M03401	Admixture	kg	7.65	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	902.70	0.00	631.89	270.81	902.70	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	463.75	951.20	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	29.96	134.84	134.84	149.82	149.82	299.65	2.0%	
Total									422.86	11,910.95	2,948.12	8,723.29	6,569.64	15,291.93		
Components (%)									2.8%	77.9%	19.3%	57.1%	42.9%	100.0%		
Unit Rate			m3						42.34	1,192.50	295.16	873.35	656.64	1,530.00		

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 = 0.35 hr
- Water = 135.00 kg/m3 L : Transportation Distance = 2.40 km
- Admixture = 0.75 kg/m3 V : Transportation Velocity = 25.00 km/hr

#0215 Concrete (for RCPC, 25MPa, max agg. 20mm)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	3.74	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,622.50	0.00	7,573.50	5,049.00	12,622.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.20	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	106.54	182.72	874.13	550.07	613.33	1,163.40	Loss 10.0%
W0128	Selected Sand, transported	m3	3.04	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	69.36	110.54					

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	
M03011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	14,951.25	0.00	5,970.53	5,980.50	14,951.25
M0122	Crushed Aggregate, transported	m3	4.06	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	102.99	176.63	845.00	531.73	592.89	1,124.62
M0128	Selected Sand, transported	m3	2.85	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	87.31	107.26	365.28	238.78	301.07	539.85
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23
M03401	Admixture	kg	11.12	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,312.16	0.00	918.51	393.65	1,312.16
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.9-4.6m3)	hr	0.82	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	68.49	78.00	804.72	487.45	951.20	1,160.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		39.40	177.32	177.32	197.02	197.02	2.0%
	Total									406.05	16,958.27	2,792.79	11,672.74	8,423.33	20,058.09
	Components (%)									2.0%	84.4%	13.6%	58.1%	41.9%	100.0%
	Unit Rate	m3								40.51	1,696.16	273.33	1,167.50	842.50	2,010.00

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 434.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 979.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 699.00 kg/m3 Transportation Time = 2-L/V + 16 = 0.35 hr
 Water = 165.00 kg/m3 L: Transportation Distance = 2.40 km
 Admixture = 1.09 kg/m3 V: Transportation Velocity = 25.00 km/hr

#0221 Mortar (1:3)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20
M03011	Portland Cement, ordinary	t	4.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,638.75	0.00	9,983.25	6,655.50	16,638.75
M0128	Selected Sand, transported	m3	6.11	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	139.40	222.16	756.56	494.55	623.58	1,118.13
M01010	Water Supply	m3	2.17	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	143.65	0.00	14.37	129.29	143.65
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		18.12	81.55	81.55	90.61	90.61	1.0%
	Total									308.32	17,089.88	904.54	10,621.18	7,881.36	18,302.54
	Components (%)									1.7%	93.4%	4.9%	58.0%	42.0%	100.0%
	Unit Rate	m3								30.83	1,708.73	90.44	1,061.97	788.03	1,830.00

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)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25
M0128	Selected Sand, transported	m3	7.88	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	179.78	286.82	975.73	637.82	804.22	1,442.04
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		22.29	104.76	104.76	118.40	118.40	1.0%
	Total									353.86	22,011.46	1,146.92	13,669.91	9,542.33	23,512.24
	Components (%)									1.6%	93.8%	4.9%	58.1%	41.9%	100.0%
	Unit Rate	m3								35.37	2,200.00	114.63	1,365.28	983.72	2,350.00

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 623.00 kg/m3
 Sand = 1,868.00 kg/m3
 Water = 280.00 kg/m3

#0225 Grout (non-shrink)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25
M0128	Selected Sand, transported	m3	9.25	12.5%	19.9%	67.7%	44.2%	55.8%	183.00	119.78	190.59	650.08	424.94	536.81	950.75
M03402	Non-shrink Admixture	kg	19.06	0.0%	100.0%	0.0%	70.0%	30.0%	392.00	0.00	7,471.52	0.00	5,230.06	2,241.45	7,471.52
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	185.36
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		30.27	136.21	136.21	151.35	151.35	1.0%
	Total									300.85	29,418.81	852.72	18,722.05	11,850.33	30,572.38
	Components (%)									1.0%	96.2%	2.8%	61.2%	38.8%	100.0%
	Unit Rate	m3								30.11	2,944.54	85.35	1,873.90	1,186.10	3,060.00

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

#0231 Concrete Pouring by Pump Vehicle (plain concrete)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.77	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	1,686.30	900.99	785.32	1,686.30
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	4.17	37.55	22.95	18.78	41.73
	Total									400.00	4.17	1,723.85	923.93	1,204.10	2,128.03
	Components (%)									18.8%	0.2%	81.0%	43.4%	35.6%	100.0%
	Unit Rate	m3								40.04	0.42	172.55	92.48	120.52	215.00

Miscellaneous covers the cost for vibrator, generator, etc.

#0232 Concrete Pouring by Pump Vehicle (reinforced concrete)

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/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	5.05	45.44	27.77	22.72	50.45
	Total									400.00	5.05	2,169.74	1,162.76	1,012.02	2,574.79
	Components (%)									15.5%	0.2%	84.3%	45.2%	34.8%	100.0%
	Unit Rate	m3								39.93	0.50	216.57	116.06	101.94	257.00

Miscellaneous covers the cost for vibrator, generator, etc.

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP
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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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L020	Unskilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	282.60	0.00	0.00	0.00	282.60	282.60	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.90	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	140.28	156.54	1,736.18	1,046.03	985.97	2,033.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	5.50	49.50	50.26	24.76	55.02	2.0%
Total										858.48	162.34	1,785.76	1,076.39	1,759.03	2,806.22	
Components (%)										36.6%	5.8%	63.6%	38.4%	61.6%	100.0%	
Unit Rate										85.96	16.23	178.81	107.77	173.23	281.00	

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

W0235 Concrete Pouring by Manpower for small structures

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	644.80	0.00	0.00	0.00	644.80	644.80	
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00	1,099.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	4.39	39.54	24.16	19.77	43.93	2.0%
Total										2,196.60	4.39	39.54	24.16	2,216.37	2,240.53	
Components (%)										98.0%	0.2%	1.8%	1.1%	98.9%	100.0%	
Unit Rate										219.61	0.44	3.95	2.42	221.58	224.00	

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

W0236 Concrete Curing (plain concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80	62.80	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	7.72	18.02	14.16	11.59	25.75	41.0%
Total										62.80	7.72	18.02	14.16	74.39	88.55	
Components (%)										70.2%	8.7%	20.4%	16.0%	84.0%	100.0%	
Unit Rate										6.28	0.77	1.80	1.42	7.43	8.85	

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

W0237 Concrete Curing (reinforced concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	31.40	0.00	0.00	0.00	31.40	31.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	3.20	7.47	5.87	4.80	10.68	34.0%
Total										31.40	3.20	7.47	5.87	36.20	42.08	
Components (%)										74.6%	7.8%	17.8%	14.0%	86.0%	100.0%	
Unit Rate										3.14	0.32	0.75	0.59	3.62	4.21	

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

W0240 Formwork (plain concrete H4m)

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%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20	
L005	Carpenter	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	6,571.20	0.00	0.00	0.00	6,571.20	6,571.20	
L020	Unskilled Labor	md	14.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,678.60	0.00	0.00	0.00	4,678.60	4,678.60	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	5,994.00	
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	40.0%	50.0%	50.0%		0.00	261.06	174.04	217.55	217.55	435.10	2.0%
Total										13,061.00	8,955.06	174.04	652.75	21,537.85	22,190.10	
Components (%)										58.9%	40.4%	0.8%	2.9%	97.1%	100.0%	
Unit Rate										130.61	89.55	1.74	6.53	215.47	222.00	

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

W0241 Formwork (reinforced concrete H4m)

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%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20	
L005	Carpenter	md	16.40	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	7,281.60	0.00	0.00	0.00	7,281.60	7,281.60	
L020	Unskilled Labor	md	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,207.60	0.00	0.00	0.00	4,207.60	4,207.60	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	5,994.00	
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	263.93	175.96	219.94	219.94	429.89	2.0%
Total										13,900.40	8,957.93	175.96	654.64	21,779.64	22,434.29	
Components (%)										59.3%	39.9%	0.8%	2.9%	97.1%	100.0%	
Unit Rate										139.00	89.44	1.76	6.54	217.45	224.00	

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

W0242 Formwork (reinforced concrete H2.4m)

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%	566.00	1,754.60	0.00	0.00	0.00	1,754.60	1,754.60	
L005	Carpenter	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	7,059.60	0.00	0.00	0.00	7,059.60	7,059.60	
L020	Unskilled Labor	md	13.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,082.00	0.00	0.00	0.00	4,082.00	4,082.00	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	5,994.00	
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	5.71	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	421.57	470.45	5,217.66	3,143.59	2,966.11	6,109.70	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	332.40	221.60	277.00	277.00	554.00	2.0%
Total										13,317.77	9,496.85	5,439.28	3,855.29	24,399.61	25,253.90	
Components (%)										47.1%	33.6%	19.3%	13.6%	86.4%	100.0%	
Unit Rate										133.18	94.97	54.48	38.52	244.38	253.00	

Miscellaneous covers the cost for, nails, electric drill, saws, 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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L005	Carpenter	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	444.00	0.00	0.00	0.00	444.00	444.00	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
M05001	Formwork Lumber, use 4 times	m3	0.16	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	592.00	0.00	29.60	562.40	592.00	
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	10.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	270.00	0.00	13.50	256.50	270.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	17.86	11.91	14.88	14.88	29.76	2.0%
Total										626.20	879.86	11.91	57.98	1,459.98	1,517.96	

W0245 Formwork Installation and Removal for PC Box Girder (Cast-in-place Construction)											Unit: 10.00 m ²						
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks		
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)	
L002	Foreman	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	566.00								
L005	Carroenter	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	328.28	0.00	0.00	0.00	328.28	328.28		
L020	Unskilled Labor	md	2.28	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,829.28	0.00	0.00	0.00	1,829.28	1,829.28		
M05001	Formwork Lumber, use 4 times	m3	0.16	0.0%	100.0%	0.0%	0.0%	95.0%	3,700.00	715.92	0.00	0.00	0.00	715.92	715.92		
M05002	Formwork Plywood 6x1200x2400, use 3 times	m2	10.00	0.0%	100.0%	0.0%	0.0%	95.0%	27.00	0.00	592.00	0.00	29.60	562.40	592.00		
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	6.9%	7.7%	85.4%	51.8%	49.5%	1,070.00	59.06	65.91	731.02	440.43	415.57	276.00		
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	55.0%	45.0%	0.00	0.00	82.65	9.18	50.51	41.32	91.83	2.0%	
	Total									2,932.54	1,010.56	740.21	534.04	4,149.27	4,682.31		
	Components (%)									62.6%	21.6%	15.8%	11.4%	38.6%	100.0%		
	Unit Rate	m2								293.05	100.98	73.97	53.37	414.63	468.00		

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

W0251 Reinforcement Grade 40, cutting, bending & assembly											Unit: 1,000.00 kg					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
M02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	18.00	0.00	17,120.00	0.00	11,128.00	5,992.00	17,120.00	Loss 7.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	3.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	738.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	189.49	1,154.23	1,058.05	865.68	1,923.72	9.0%
	Total									3,538.30	17,941.04	1,819.09	12,579.97	10,718.45	23,298.42	
	Components (%)									15.2%	77.0%	7.8%	54.0%	48.0%	100.0%	
	Unit Rate	kg								3.54	17.94	1.82	12.58	10.72	23.30	

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

W0252 Reinforcement Grade 60, cutting, bending & assembly											Unit: 1,000.00 kg					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00	Loss 7.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	3.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	738.10	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	0.00	0.00	189.49	1,154.23	1,058.05	865.68	1,923.72	9.0%
	Total									3,538.30	19,545.56	1,876.87	13,328.43	11,136.29	24,454.72	
	Components (%)									14.5%	77.9%	7.7%	54.5%	48.0%	100.0%	
	Unit Rate	kg								3.54	19.08	1.88	13.35	11.15	24.50	

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

W0303 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication @460 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.03	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	41.86	1,487.09	283.83	1,043.58	767.22	1,812.60	Loss 2.0%
W0232	Concrete Curins (reinforced concrete)	m3	1.01	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	40.32	0.51	218.74	117.22	142.35	259.57	
W0237	Concrete Curins (reinforced concrete)	m3	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.17	0.32	0.75	0.59	3.66	4.25	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	92.20	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	326.70	1,758.90	173.90	1,230.65	1,028.25	2,258.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	8.85	5.41	43.94	27.38	30.82	58.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.18	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	10.85	19.43	78.76	55.11	53.43	106.54	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	81.04	243.12	486.24	384.68	445.72	919.41	18.0%
	Total									512.80	3,514.79	1,265.06	2,841.72	2,471.45	5,312.67	
	Components (%)									9.7%	66.2%	23.0%	53.5%	46.5%	100.0%	
	Unit Rate	m								51.28	351.30	126.44	284.98	247.02	531.00	

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 @510 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.60	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	65.03	2,310.04	440.93	1,524.20	1,191.80	2,816.00	Loss 2.0%
W0232	Concrete Curins (reinforced concrete)	m3	1.57	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	62.68	0.79	340.02	182.21	221.28	403.49	
W0237	Concrete Curins (reinforced concrete)	m3	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	4.93	0.50	1.17	0.92	6.61		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	150.70	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	569.42	3,065.68	302.05	2,144.97	1,792.18	3,937.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	13.27	8.12	65.91	41.07	46.23	87.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.27	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	16.28	29.14	117.39	82.67	80.14	162.61	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	152.44	490.39	800.64	600.48	733.02	1,334.40	18.0%
	Total									865.06	5,814.60	2,068.11	4,678.52	4,071.24	8,747.76	
	Components (%)									9.9%	66.5%	23.0%	53.5%	46.5%	100.0%	
	Unit Rate	m								86.51	581.61	206.81	467.77	407.23	875.00	

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

W0305 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication @760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	2.30	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	93.48	3,320.68	633.94	2,334.78	1,713.22	4,048.00	Loss 2.0%
W0232	Concrete Curins (reinforced concrete)	m3	2.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	89.83	1.13	487.28	261.14	317.11	578.25	
W0237	Concrete Curins (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	7.07	0.72	1.32	1.01	9.47		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	875.22	4,712.03	464.25	3,296.67	2,754.63	6,051.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.39	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	23.52	42.10	169.56	119.41	115.76	235.17	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	0.00	198.87	596.82	1,193.24	894.93	1,093.80	1,988.73	18.0%
	Total									1,307.16	8,685.60	3,045.06	6,987.77	6,059.45	13,037.22	
	Components (%)									10.0%	66.6%	23.4%	53.4%	46.0%	100.0%	
	Unit Rate	m	</													

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	4.05	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	164.61	5,947.29	1,116.10	4,111.23	3,016.75	7,123.00	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	3.97	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	859.78	460.76	559.53	1,020.29	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	545.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,934.34	10,414.15	1,026.06	7,286.48	6,088.07	13,374.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	34.65	21.20	172.10	107.23	120.72	227.95	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.69	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	41.61	74.48	299.99	211.27	204.80	416.07	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		399.30	1,197.91	2,395.83	1,795.87	2,195.17	3,993.04	18.0%
Total									2,745.48	17,558.30	5,872.93	13,978.19	12,200.42	26,176.61		
Components (%)									10.5%	67.1%	22.4%	53.4%	46.6%	100.0%		
Unit Rate									274.55	1,755.83	587.29	1,397.82	1,220.04	2,617.66		

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	5.13	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	208.50	7,406.57	1,413.73	5,207.58	3,821.22	9,028.80	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	5.00	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.53	1,089.35	583.78	708.93	1,292.71	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	684.40	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,425.10	13,056.32	1,286.38	9,135.13	7,632.67	16,787.92	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.59	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	43.49	26.51	216.04	134.61	151.54	286.15	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.88	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	53.06	94.98	382.59	269.45	261.19	530.84	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		502.69	1,508.07	3,015.15	2,262.11	2,764.80	5,026.91	18.0%
Total									3,449.49	22,096.70	7,408.00	17,595.62	15,358.57	32,954.19		
Components (%)									10.5%	67.1%	22.4%	53.4%	46.6%	100.0%		
Unit Rate									344.95	2,209.67	740.80	1,759.56	1,535.86	3,295.42		

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

W0309 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1520 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	7.62	2.3%	82.0%	15.7%	57.7%	42.3%	1,760.00	309.71	11,001.57	2,099.93	7,735.24	5,675.96	13,411.20	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	7.47	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,635.17	19,371.12	1,828.25	13,693.36	11,441.19	25,134.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.88	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	64.87	39.69	322.23	200.77	226.03	426.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.30	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	78.39	140.32	565.19	398.05	385.85	783.90	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		502.69	1,508.07	3,015.15	2,262.11	2,764.80	5,026.91	18.0%
Total									5,160.39	33,011.07	11,943.41	26,277.10	22,937.98	49,215.07		
Components (%)									10.5%	67.1%	22.4%	53.4%	46.6%	100.0%		
Unit Rate									516.04	3,301.11	1,194.34	2,627.71	2,293.80	4,921.51		

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

W0313 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #460 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	0.80	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	32.41	1,356.93	218.66	934.00	674.00	1,608.00	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	0.78	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	31.14	0.39	168.92	90.53	109.93	209.46	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	122.70	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	434.77	2,340.75	230.62	1,837.76	1,368.39	3,006.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	6.63	4.06	32.96	20.53	23.12	43.65	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.14	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	8.44	15.11	60.87	42.87	41.55	84.42	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		89.03	267.08	534.16	400.62	489.65	890.27	18.0%
Total									604.88	3,984.57	1,246.78	3,126.77	2,709.47	5,816.23		
Components (%)									10.4%	68.3%	21.4%	53.6%	46.4%	100.0%		
Unit Rate									60.49	398.46	124.68	312.68	270.95	581.62		

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.33	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	53.88	2,255.89	363.53	1,552.78	1,120.32	2,673.30	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	1.30	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	51.90	0.66	281.54	150.88	183.22	334.10	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	199.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	706.91	3,805.87	374.97	2,662.56	2,224.89	4,887.75	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	11.06	6.77	54.93	34.22	38.53	72.75	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.23	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	13.87	24.83	100.00	70.42	68.27	138.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		146.02	438.05	876.10	657.06	803.09	1,460.17	18.0%
Total									987.72	6,532.47	2,052.04	5,129.00	4,443.23	9,572.23		
Components (%)									10.3%	68.2%	21.4%	53.6%	46.4%	100.0%		
Unit Rate									98.77	653.25	205.20	512.90	444.32	957.22		

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

W0315 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	1.93	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	78.19	3,273.59	527.53	2,253.28	1,626.02	3,879.30	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	1.89	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	75.46	0.95	409.32	219.35	266.38	485.73	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	272.60	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	968.93	5,200.40	512.37	3,638.57	3,040.13	6,678.70	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.22	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	16.22	9.92	80.56	50.19	56.51	106.70	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.33	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	19.90	35.62	143.47	101.04	97.95	198.99	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		204.43	613.30	1,226.60	919.85	1,124.38	2,044.33	18.0%
Total									1,366.07	9,134.38	2,901.26	7,183.50	6,218.21	13,401.71		
Components (%)									10.2%	68.2%	21.6%	53.6%	46.4%	100.0%		
Unit Rate									136.61	913.44	290.13	718.35	621.82	1,340.17		

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

W0316 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #910 (36")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0215	Concrete (for RCPC, 32MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m3	2.57	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	104.12	4,389.12	702.46	3,000.48	2,165.22	5,165.70	Loss 2.0%
W0232	Concrete Curing (reinforced concrete)	m3	2.52	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	100.61	1.27	546.76	292.47	355.17	647.64	
W0237	Reinforcement Grade 60, cutting, bending & assembly	kg	489.20	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,733.43	9,332.48	919.49	6,529.67	5,456.73	11,985.40	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.30	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	22.12	13.33	109.85	68.44	77.06	145.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.44	10.0%	17.9%	72.1%	50.8%	49.2%								

W0317 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1070 (42°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	3.32	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	154.50	5,631.24	907.46	3,876.10	2,797.10	6,673.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	129.76	1.64	703.85	377.20	458.05	835.25	
W0237	Concrete Curing (reinforced concrete)	m3	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	10.21	1.04	2.43	1.91	11.77	13.88	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	609.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,157.93	11,617.91	1,144.66	6,128.72	6,791.78	14,920.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.38	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	28.01	17.14	139.15	86.70	97.60	184.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.57	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	34.37	61.52	247.81	174.53	169.18	345.71	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		413.47	1,240.41	2,480.83	1,950.62	2,274.09	4,134.72	18.0%
Total									2,908.25	18,570.91	5,826.19	14,505.78	12,599.58	27,105.36		
Components (%)									10.7%	68.5%	20.8%	53.5%	46.5%	100.0%		
Unit Rate									290.77	1,856.72	582.51	1,450.29	1,259.71	2,710.00		

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

W0318 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1220 (48°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	4.30	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	174.20	7,293.47	1,175.32	5,020.25	3,622.75	8,643.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.22	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	168.49	2.13	913.93	489.77	594.77	1,084.64	
W0237	Concrete Curing (reinforced concrete)	m3	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	13.26	1.35	3.16	2.48	15.29	17.77	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,789.97	15,042.24	1,482.04	10,524.62	8,793.63	19,318.25	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.50	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	36.86	22.55	183.09	114.07	124.50	242.50	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.73	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	44.02	78.79	317.38	223.62	216.67	440.19	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		535.43	1,608.30	3,212.60	2,409.43	2,944.88	5,354.33	18.0%
Total									3,766.23	24,046.83	7,287.51	18,784.17	16,316.40	35,100.58		
Components (%)									10.7%	68.5%	20.8%	53.5%	46.5%	100.0%		
Unit Rate									376.62	2,404.64	728.74	1,878.39	1,631.61	3,510.00		

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

W0319 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #1520 (60°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	8.27	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	254.01	10,634.90	1,713.79	7,320.23	5,282.47	12,602.70	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	6.15	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	245.54	3.10	1,331.91	713.77	866.78	1,580.55	
W0237	Concrete Curing (reinforced concrete)	m3	6.15	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	19.32	1.97	4.60	3.61	22.28	25.89	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,186.30	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	4,203.53	22,631.08	2,229.74	15,834.32	13,230.03	29,064.35	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.72	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	53.08	32.48	263.65	164.27	184.93	349.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.07	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	64.52	115.49	465.20	327.62	317.59	645.21	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		786.82	2,390.47	4,780.93	3,585.70	4,382.52	7,982.22	18.0%
Total									5,636.83	35,809.48	10,789.81	27,949.53	24,286.59	52,236.12		
Components (%)									10.7%	68.5%	20.8%	53.5%	46.5%	100.0%		
Unit Rate									563.29	3,578.47	1,078.23	2,783.02	2,426.98	5,220.00		

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

W0331 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #460 (15°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	1.03	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	41.73	1,747.04	281.53	1,202.53	867.77	2,070.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.01	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	40.32	0.51	218.74	117.22	142.35	259.57	
W0237	Concrete Curing (reinforced concrete)	m3	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.17	0.32	0.75	0.59	3.66	4.25	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	158.20	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	560.57	3,017.99	297.35	2,111.60	1,764.30	3,875.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	8.85	5.41	43.94	27.38	30.82	58.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.16	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	10.85	19.43	78.26	55.11	53.43	108.54	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		114.78	344.35	688.69	516.52	631.30	1,147.62	18.0%
Total									780.27	5,135.05	1,609.25	4,030.95	3,493.63	7,524.68		
Components (%)									10.4%	68.2%	21.4%	53.6%	46.4%	100.0%		
Unit Rate									77.98	513.19	160.92	402.85	349.15	752.00		

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

W0332 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #610 (24°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	1.60	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	64.82	2,713.85	437.33	1,868.00	1,348.00	3,216.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.57	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	62.68	0.79	340.02	182.21	221.28	403.49	
W0237	Concrete Curing (reinforced concrete)	m3	1.57	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	4.93	0.50	1.17	0.92	5.69	6.61	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	228.40	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	809.31	4,357.19	429.29	3,048.60	2,547.20	5,595.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	13.27	8.12	65.91	41.07	46.23	87.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.27	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	16.28	29.14	117.39	82.67	80.14	162.81	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		170.50	511.49	1,022.98	767.23	937.73	1,704.96	18.0%
Total									1,141.79	7,621.09	2,414.09	5,990.71	5,186.26	11,176.87		
Components (%)									10.2%	68.2%	21.4%	53.6%	46.4%	100.0%		
Unit Rate									114.41	763.68	241.91	600.31	519.69	1,120.00		

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

W0333 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication #760 (38°)											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks		
				Component (%)					Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign		Local	Total (PP)
W0216	Concrete (for RCPC, 32MPa, max)	m3	2.30	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	93.18	3,901.16	628.66	2,895.25	1,937.75	4,623.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	89.83	1.13	487.28	261.14	317.11	578.25	
W0237	Concrete Curing (reinforced concrete)	m3	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	7.07	0.72	1.68	1.32	9.47		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	345.10	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,222.83	6,583.48	648.64	4,806.27	3,848.68	8,544.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.39	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	23.52	42.10	189.56	119.41	115.76	235.17	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		252.48	757.45	1,514.91	1,138.18	1,388.67	2,524.85	18.0%
Total									1,708.07	11,297.77	3,545.84	8,869.90	7,682.89	16,551.79		
Components (%)						</										

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication @1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	4.03	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	184.08	6,899.43	1,106.99	4,723.38	3,412.13	8,140.50	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	859.78	460.76	559.53	1,020.29	
W0237	Concrete Curing (reinforced concrete)	m3	3.97	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	12.47	1.27	2.97	2.33	14.38	16.71	
W0232	Reinforcement Grade 60, cutting, bending & assembly	kg	967.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,426.47	18,447.49	1,817.55	12,907.18	10,784.32	23,691.50	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.47	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	34.70	34.29	344.14	209.26	203.87	413.13	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.69	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	41.61	74.48	299.99	211.27	204.80	416.07	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	606.57	606.57	1,819.70	3,639.41	2,729.55	3,336.12	6,065.68	18.0%
Total									4,444.39	27,248.66	8,070.82	21,248.74	16,515.14	39,763.88		
Components (%)									11.2%	68.5%	20.3%	53.4%	46.8%	100.0%		
Unit Rate									444.84	2,724.87	807.08	2,124.87	1,651.51	3,976.39		

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

W0336 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication @1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	5.13	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	207.83	8,701.28	1,402.19	5,989.28	4,322.02	10,311.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.33	1,089.35	583.78	708.93	1,292.71	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	15.81	1.61	3.76	2.96	18.22	21.18	
W0232	Reinforcement Grade 60, cutting, bending & assembly	kg	982.30	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,480.68	18,739.37	1,846.31	13,111.40	10,954.95	24,066.35	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.59	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	43.56	43.04	432.00	262.69	255.92	518.61	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.88	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	53.06	94.98	382.59	269.45	261.19	530.64	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	603.00	603.00	1,984.00	3,968.01	2,976.00	3,633.34	6,613.34	18.0%
Total									4,663.10	29,568.83	9,124.20	23,156.56	20,158.57	43,354.13		
Components (%)									10.8%	68.2%	21.0%	53.4%	46.5%	100.0%		
Unit Rate									466.80	2,956.88	912.42	2,315.66	2,015.86	4,335.41		

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

W0337 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication @1520 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max	m3	7.62	2.0%	84.4%	13.6%	58.1%	41.9%	2,010.00	308.70	12,924.71	2,082.78	8,896.36	6,419.84	15,316.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.3%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	23.47	2.39	5.69	4.39	27.06	31.46	
W0232	Reinforcement Grade 60, cutting, bending & assembly	kg	1,824.80	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	6,465.99	34,811.76	3,429.85	24,356.80	20,350.80	44,707.60	
R0402-020	Truck Crane, Hydraulic 15-20t	hr	0.88	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	64.97	72.50	804.13	484.48	457.12	941.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.30	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	78.39	140.32	565.19	398.05	385.85	783.90	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	603.00	1,146.61	3,439.83	6,879.66	5,139.74	6,305.35	11,468.10	18.0%
Total									8,386.38	31,395.28	15,384.97	40,166.78	34,999.86	75,166.64		
Components (%)									11.2%	68.4%	20.6%	53.4%	46.8%	100.0%		
Unit Rate									839.01	5,141.81	1,538.49	4,016.68	3,499.98	7,516.66		

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

W0341 Precast Concrete Pipe Laying @480 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20	
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	168.08	102.84	834.88	520.18	585.82	1,105.80	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	485.00	8.55	38.91	65.46	58.01	130.91	130.91	
Total									939.03	161.75	900.34	579.03	1,422.03	2,601.11		
Components (%)									46.9%	8.1%	45.0%	28.9%	71.1%	100.0%		
Unit Rate									93.90	16.18	90.03	57.90	142.20	260.11		

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

W0342 Precast Concrete Pipe Laying @610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	210.84	129.00	1,047.26	652.50	734.60	1,387.10	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	485.00	7.98	38.91	79.79	71.81	87.77	159.59	
Total									1,111.52	200.81	1,127.05	724.32	1,715.07	2,439.39		
Components (%)									45.6%	8.2%	46.2%	29.7%	70.3%	100.0%		
Unit Rate									111.15	20.08	112.71	72.43	171.51	243.94		

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

W0343 Precast Concrete Pipe Laying @760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	252.86	154.71	1,255.98	782.55	881.00	1,663.35	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	485.00	9.84	58.52	98.36	88.52	108.19	196.71	
Total									1,409.30	243.23	1,354.34	871.07	2,135.79	3,006.86		
Components (%)									46.9%	8.1%	45.0%	29.7%	71.0%	100.0%		
Unit Rate									140.93	24.32	135.43	87.11	213.58	300.69		

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

W0344 Precast Concrete Pipe Laying @910 (36")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L019	Skilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	282.10	0.00	0.00	0.00	282.10	282.10	
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.00	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	295.34	291.83	2,928.83	1,780.97	1,735.03	3,516.00	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	485.00	18.77	150.91	167.88	150.91	184.45	335.36	7.0%
Total									1,387.01	442.74	3,096.51	1,931.88	3,194.38	5,126.26		
Components (%)									31.4%	8.6%	60.0%	37.4%	62.6%	100.0%		
Unit Rate									138.70	44.27	309.65	193.19	319.44	512.63		

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

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W0346 Precast Concrete Pipe Laying #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	362.70	0.00	0.00	0.00	362.70	362.70	
L020	Unskilled Labor	md	2.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	785.00	0.00	0.00	0.00	785.00	785.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.14	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	319.52	375.00	5,763.54	2,286.54	2,229.52	4,518.06	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.61	194.32	216.13	194.52	237.74	432.26	
	Total									2,058.23	569.32	5,978.61	2,483.06	4,174.36	6,607.42	
	Components (%)									31.2%	8.3%	80.7%	37.6%	62.4%	100.0%	
	Unit Rate									205.90	56.97	398.12	248.40	412.60	661.00	

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

W0347 Precast Concrete Pipe Laying #1520 (60")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	463.66	517.41	5,738.54	3,457.40	3,282.20	6,719.60	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		30.55	274.92	305.46	274.92	326.01	610.93	
	Total									2,502.10	792.33	6,044.00	3,732.31	5,606.11	9,338.43	
	Components (%)									26.8%	8.5%	64.7%	40.0%	60.0%	100.0%	
	Unit Rate									250.25	79.25	604.50	373.29	560.72	934.00	

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

W0351 Precast Concrete Pipe Removal #450 (18")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	67.92	0.00	0.00	0.00	67.92	67.92	
L019	Skilled Labor	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	48.36	0.00	0.00	0.00	48.36	48.36	
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	113.04	0.00	0.00	0.00	113.04	113.04	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.68	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	50.13	30.67	249.00	155.14	174.66	329.80	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.59	44.73	25.16	25.16	30.73	55.91	
	Total									285.04	36.26	293.73	180.30	434.73	615.03	
	Components (%)									46.3%	5.9%	47.8%	29.3%	70.7%	100.0%	
	Unit Rate									28.50	3.63	29.37	18.03	43.47	61.50	

Miscellaneous covers the costs for demolition, disposal, etc.

W0352 Precast Concrete Pipe Removal #510 (24")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	84.90	0.00	0.00	0.00	84.90	84.90	
L019	Skilled Labor	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	80.45	0.00	0.00	0.00	80.45	80.45	
L020	Unskilled Labor	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	122.46	0.00	0.00	0.00	122.46	122.46	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	63.40	38.79	314.91	196.21	220.89	417.10	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		6.85	6.85	51.79	30.82	37.67	89.49	
	Total									338.06	45.24	369.70	227.03	536.37	757.40	
	Components (%)									44.9%	6.1%	49.1%	30.1%	69.8%	100.0%	
	Unit Rate									33.79	4.36	36.95	22.69	52.81	75.30	

Miscellaneous covers the costs for demolition, disposal, etc.

W0353 Precast Concrete Pipe Removal #760 (30")

Item No.	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	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	101.88	0.00	0.00	0.00	101.88	101.88	
L019	Skilled Labor	md	0.13	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	72.54	0.00	0.00	0.00	72.54	72.54	
L020	Unskilled Labor	md	0.54	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	169.56	0.00	0.00	0.00	169.56	169.56	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.03	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	75.92	46.46	377.16	234.89	264.56	499.55	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.44	8.44	67.48	37.96	46.39	84.35	
	Total									428.35	54.89	444.64	272.55	664.93	927.88	
	Components (%)									46.2%	5.9%	47.9%	29.4%	70.6%	100.0%	
	Unit Rate									42.84	5.49	44.47	27.30	65.50	92.80	

Miscellaneous covers the costs for demolition, disposal, etc.

W0354 Precast Concrete Pipe Removal #910 (36")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	118.86	0.00	0.00	0.00	118.86	118.86	
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	84.63	0.00	0.00	0.00	84.63	84.63	
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	178.98	0.00	0.00	0.00	178.98	178.98	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.4%	5.3%	83.3%	50.7%	49.3%	879.00	88.60	87.55	878.05	534.29	520.51	1,054.80	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.37	14.37	114.98	64.68	79.05	143.73	
	Total									485.45	101.92	992.63	599.37	932.03	1,581.00	
	Components (%)									30.7%	6.4%	62.8%	31.9%	62.1%	100.0%	
	Unit Rate									48.54	10.19	99.30	59.86	93.14	158.00	

Miscellaneous covers the costs for demolition, disposal, etc.

W0355 Precast Concrete Pipe Removal #1070 (42")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	135.84	0.00	0.00	0.00	135.84	135.84	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	96.72	0.00	0.00	0.00	96.72	96.72	
L020	Unskilled Labor	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	216.66	0.00	0.00	0.00	216.66	216.66	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.37	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	101.16	99.95	1,003.12	609.98	594.25	1,204.23	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		16.53	16.53	132.28	74.41	90.84	165.35	
	Total									566.91	116.49	1,135.40	684.39	1,134.41	1,818.30	
	Components (%)									31.2%	6.4%	62.4%	37.6%	62.4%	100.0%	
	Unit Rate									56.73	11.66	113.62	68.48	113.52	181.83	

Miscellaneous covers the costs for demolition, disposal, etc.

W0356 Precast Concrete Pipe Removal #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	152.82	0.00	0.00	0.00	152.82	152.82	
L019	Skilled Labor	md	0.27	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	108.81	0.00	0.00	0.00	108.81	108.81	
L020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	235.50	0.00	0.00	0.00	235.50	235.50	
R0402-015																

#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%	566.00	401.86	0.00	0.00	0.00	401.86	401.86
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26
L020	Unskilled Labor	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	222.94	0.00	0.00	0.00	222.94	222.94
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	4.65	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	299.94	340.85	2,767.66	1,673.31	1,735.14	3,408.45
R0401-040	Crawler Crane, 36-40t	hr	4.65	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	335.50	761.67	7,970.33	4,820.66	4,248.84	9,067.56
R1001-150	Generator 101-150 kW	day	0.71	0.0%	0.0%	52.2%	47.8%	59.9%	3,610.00	0.00	1,337.94	1,225.16	1,536.56	1,026.54	2,563.10
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.73	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	204.09	252.33	3,254.28	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									2,036.59	2,692.78	15,217.44	9,958.66	9,988.15	19,946.61	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m ²						20.32	26.86	151.82	99.35	99.65	199.00	

Tc = [(0.75 + γ · Nmax) · L + α] · K / F
 Tc : Construction time per pile = 11.2 min/pile
 α : Coefficient = 3.75
 γ : Coefficient = 0.02
 L : Pile driving length = 7.80 m

Nmax : Maximum N-value = 10.00
 K : Coefficient = 1.00
 F : Work factor = 1.00
 T : Operation hour per day = 5.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 10.000 m

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					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%	566.00	515.06	0.00	0.00	0.00	515.06	515.06
L019	Skilled Labor	md	1.82	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	733.46	0.00	0.00	0.00	733.46	733.46
L020	Unskilled Labor	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	285.74	0.00	0.00	0.00	285.74	285.74
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	5.95	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	383.80	436.14	3,541.42	2,141.11	2,220.24	4,361.35
R0401-040	Crawler Crane, 36-40t	hr	5.95	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	429.29	974.61	10,198.60	6,168.37	5,434.13	11,602.50
R1001-150	Generator 101-150 kW	day	0.91	0.0%	0.0%	52.2%	47.8%	59.9%	3,610.00	0.00	1,714.82	1,570.28	1,968.40	3,115.70	3,285.10
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	261.15	322.87	4,164.08	2,467.19	2,280.91	4,748.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									2,605.50	3,448.24	19,474.38	12,748.05	12,755.25	25,531.31	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m ²						26.05	34.44	194.50	127.30	127.70	255.00	

Tc = [(0.75 + γ · Nmax) · L + α] · K / F
 Tc : Construction time per pile = 14.3 min/pile
 α : Coefficient = 3.75
 γ : Coefficient = 0.02
 L : Pile driving length = 7.80 m

Nmax : Maximum N-value = 30.00
 K : Coefficient = 1.00
 F : Work factor = 1.00
 T : Operation hour per day = 6.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 10.000 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%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.94	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	254.15	288.80	2,345.07	1,417.31	1,470.21	2,888.02
R0401-040	Crawler Crane, 36-40t	hr	3.94	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	284.27	845.37	6,753.36	4,084.60	3,598.40	7,683.00
R1001-150	Generator 101-150 kW	day	0.60	0.0%	0.0%	52.2%	47.8%	59.9%	3,610.00	0.00	1,130.65	1,035.35	1,298.50	867.50	2,166.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.38	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	172.63	213.44	2,752.73	1,630.97	1,507.83	3,138.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,722.65	2,278.26	12,888.50	8,431.89	8,455.33	16,887.42	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m ²						17.24	22.80	128.96	84.38	84.62	169.00	

Tc = [(0.75 + γ · Nmax) · L + α] · K / F
 Tc : Construction time per pile = 9.5 min/pile
 α : Coefficient = 3.60
 γ : Coefficient = 0.00
 L : Pile pullout length = 7.80 m

Nmax : Maximum N-value = 30.00
 K : Coefficient = 1.00
 F : Work factor = 1.00
 T : Operation hour per day = 6.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 10.000 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%	566.00	237.72	0.00	0.00	0.00	237.72	237.72
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	338.52	0.00	0.00	0.00	338.52	338.52
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	131.88	0.00	0.00	0.00	131.88	131.88
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.73	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	176.10	200.11	1,624.89	982.39	1,018.70	2,001.09
R0401-040	Crawler Crane, 36-40t	hr	2.73	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	196.97	447.17	4,679.36	2,830.19	2,493.31	5,323.50
R1001-150	Generator 101-150 kW	day	0.42	0.0%	0.0%	52.2%	47.8%	59.9%	3,610.00	0.00	791.46	724.74	908.95	607.25	1,516.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.84	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	119.97	148.32	1,912.91	1,133.39	1,047.81	2,181.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,201.15	1,587.05	8,941.50	5,854.82	5,875.11	11,730.11	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m						11.98	15.83	89.15	58.40	58.60	117.00	

Tc = (Ts + Td) / F
 Tc : Construction time per pile = 19.6 min/pile
 Ts : Preparation time per pile = 10.00 min/pile
 Td : Driving time per pile = γ · L · K = 5.70 min/pile
 γ : Driving time per unit meter = 0.01 · Nmax + 0.65 = 0.95 min/m

L : Pile Driving length = 6.00 m
 K : Coefficient = 1.00
 Nmax : Maximum N-value = 30.00
 F : Work factor = 0.80
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 12.00 m

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					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%	566.00	203.76	0.00	0.00	0.00	203.76	203.76
L019	Skilled Labor	md	0.72	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	290.16	0.00	0.00	0.00	290.16	290.16
L020	Unskilled Labor	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	113.04	0.00	0.00	0.00	113.04	113.04
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	2.38	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	153.52	174.45	1,416.57	856.45	888.09	1,744.54
R0401-040	Crawler Crane, 36-40t	hr	2.38	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	171.72	389.84	4,079.44	2,467.35	2,173.65	4,641.00
R1001-150	Generator 101-150 kW	day	0.36	0.0%	0.0%	52.2%	47.8%	59.9%	3,610.00	0.00	678.39	621.21	779.10	520.50	1,299.50
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,036.80	1,372.02	7,785.18	5,091.15	5,102.85	10,194.00	
Components (%)									10.2%	13.5%	76.4%	49.9%	50.1%	100.0%	
Unit Rate			m						10.37	13.73	77.90	50.94	51.06	102.00	

Tc = (Ts + Td) / F
 Tc : Construction time per pile = 14.3 min/pile
 Ts : Preparation time per pile = 6.00 min/pile
 Td : Driving time per pile = γ · L · K = 6.83 min/pile
 γ : Driving time per unit meter = 0.65 min/m

L : Pile length = 10.00 m
 K : Coefficient = 1.05
 Nmax : Maximum N-value = 30.00
 F : Work factor = 0.90
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 10.00 m

#0411 Temporary Struts & Supports Installation

Unit: 10.00 t

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

W0412 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	nd	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	806.00	0.00	0.00	0.00	806.00	806.00
L009	Welder	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00
L020	Unskilled Labor	nd	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	628.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.71	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	471.69	416.58	4,180.90	2,542.33	2,478.76	5,019.09
R0901-025	Welding Machine 250A	day	0.00	0.0%	0.0%	39.8%	60.2%	58.6%	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%	588.00	0.00	338.16	413.55	413.55	338.88	751.91
	Total								2,921.60	134.94	4,594.45	2,955.88	5,315.12	8,231.00	
	Components (%)								35.3%	9.1%	55.5%	35.7%	64.3%	100.0%	
	Unit Rate								292.13	75.49	459.39	295.55	531.45	827.00	

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

W0413 Temporary Struts & Tie Rod Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,830.00	0.00	0.00	0.00	2,830.00	2,830.00
L019	Skilled Labor	nd	10.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,030.00	0.00	0.00	0.00	4,030.00	4,030.00
L009	Welder	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	2,500.00	0.00	0.00	0.00	2,500.00	2,500.00
L020	Unskilled Labor	nd	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	28.55	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	2,498.92	2,482.92	20,904.51	12,711.65	12,382.80	25,094.45
R0901-025	Welding Machine 250A	day	5.00	0.0%	0.0%	39.8%	60.2%	58.6%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.58	2,940.00
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%	588.00	0.00	1,402.76	1,714.48	1,714.48	1,402.76	3,117.24
	Total								13,038.02	4,655.80	24,388.87	16,148.53	25,034.14	42,087.69	
	Components (%)								31.0%	11.1%	58.0%	38.1%	61.9%	100.0%	
	Unit Rate								1,304.34	465.77	2,439.89	1,615.52	2,494.48	4,210.00	

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

W0414 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,641.40	0.00	0.00	0.00	1,641.40	1,641.40
L019	Skilled Labor	nd	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,337.40	0.00	0.00	0.00	2,337.40	2,337.40
L009	Welder	nd	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	910.60	0.00	0.00	0.00	910.60	910.60
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	1,452.72	1,208.17	12,125.35	7,373.20	7,183.04	14,556.24
R0901-025	Welding Machine 250A	day	0.00	0.0%	0.0%	39.8%	60.2%	58.6%	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%	588.00	0.00	787.55	962.56	962.56	787.55	1,570.11
	Total								6,112.12	1,955.72	13,057.77	8,335.76	12,859.29	21,135.75	
	Components (%)								28.8%	9.1%	58.3%	38.3%	60.7%	100.0%	
	Unit Rate								611.34	199.61	1,509.05	833.74	1,286.26	2,120.00	

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

W0415 Temporary Deck Plate Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60
L019	Skilled Labor	nd	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,329.90	0.00	0.00	0.00	1,329.90	1,329.90
L009	Welder	nd	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	345.40	0.00	0.00	0.00	345.40	345.40
R0402-015	Truck Crane, Hydraulic 11-15t	hr	6.28	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	5,518.52	458.17	4,598.26	2,796.12	2,724.00	5,520.12
R0901-025	Welding Machine 250A	day	0.00	0.0%	0.0%	39.8%	60.2%	58.6%	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%	588.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								2,761.59	458.17	4,598.26	2,796.12	5,021.90	7,818.02	
	Components (%)								35.3%	5.9%	38.8%	35.8%	64.2%	100.0%	
	Unit Rate								27.62	4.58	45.99	27.97	50.23	78.23	

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

W0416 Temporary Deck Plate Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	nd	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	725.40	0.00	0.00	0.00	725.40	725.40
L009	Welder	nd	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.43	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	3,018.57	253.26	2,511.47	1,527.18	1,487.79	3,014.97
R0901-025	Welding Machine 250A	day	0.00	0.0%	0.0%	39.8%	60.2%	58.6%	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%	588.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total								1,506.66	250.24	2,511.47	1,527.18	2,741.19	4,268.37	
	Components (%)								35.3%	5.9%	38.8%	35.8%	64.2%	100.0%	
	Unit Rate								15.07	2.50	25.12	15.28	27.42	42.70	

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

W0417 Temporary Deck Plate Support Beam Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80
L019	Skilled Labor	nd	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,047.80	0.00	0.00	0.00	1,047.80	1,047.80
L009	Welder	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00
L020	Unskilled Labor	nd	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20
R0402-015	Truck Crane, Hydraulic 11-15t	hr	7.42	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	6,518.58	541.34	5,432.98	3,303.69	3,218.49	6,522.18
R0901-025	Welding Machine 250A	day	1.30	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	394.23	460.17	447.83	318.57	764.49
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%	588.00	0.00	339.07	791.16	621.83	508.60	1,150.23
	Total								4,563.56	1,184.64	6,684.30	4,373.15	8,059.36	12,432.51	
	Components (%)								36.7%	9.4%	53.8%	35.2%	64.8%	100.0%	
	Unit Rate								455.16	118.15	666.68	436.17	803.83	1,240.00	

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

W0418 Temporary Deck Plate Support Beam Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80
L019	Skilled Labor	nd	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00				

W0422 Temporary Access Bridge Superstructure Removal

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	309.40	0.00	0.00	0.00	509.40	509.40		
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	785.70	0.00	0.00	0.00	785.70	785.70		
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	250.00		
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	471.00	0.00	0.00	0.00	471.00	471.00		
R0401-025	Crawler Crane, 21-25t	hr	4.66	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	334.40	581.57	6,353.63	3,833.41	3,436.19	7,269.60		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	250.17	583.74	458.65	376.25	833.91	9.0%	
Total									2,330.50	831.74	6,937.37	4,292.06	3,807.55	10,099.61			
Components (%)									23.0%	8.2%	68.7%	42.5%	57.5%	100.0%			
Unit Rate									233.06	83.18	693.76	429.22	580.78	1,010.00			

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

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%	566.00	622.60	0.00	0.00	0.00	622.60	622.60		
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	866.80	0.00	0.00	0.00	866.80	866.80		
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,450.00	0.00	0.00	0.00	1,450.00	1,450.00		
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20		
R0401-025	Crawler Crane, 21-25t	hr	4.07	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	292.06	507.94	5,549.20	3,348.06	3,001.14	6,349.20		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	207.35	483.81	380.13	311.02	691.15	7.0%	
Total									3,816.46	715.28	6,033.01	3,728.20	6,836.56	10,564.75			
Components (%)									38.1%	6.8%	57.1%	35.3%	64.7%	100.0%			
Unit Rate									38.29	7.18	60.53	37.41	68.59	106.00			

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

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%	566.00	283.00	0.00	0.00	0.00	283.00	283.00		
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00		
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,000.00	0.00	0.00	0.00	1,000.00	1,000.00		
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00		
R0401-025	Crawler Crane, 21-25t	hr	2.33	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	167.20	290.78	3,176.82	1,916.70	1,718.10	3,634.80		
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	16.90	39.44	30.99	25.36	56.35	1.0%	
Total									2,167.20	307.69	3,216.26	1,947.70	3,743.45	5,691.15			
Components (%)									38.1%	3.4%	56.5%	34.2%	65.8%	100.0%			
Unit Rate									21.67	3.08	32.16	19.47	37.43	56.90			

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

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%	566.00	113.20	0.00	0.00	0.00	113.20	113.20		
L020	Unskilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	879.20	0.00	0.00	0.00	879.20	879.20		
R0402-005	Truck Crane, Hydraulic 2-5t	hr	4.57	17.9%	10.9%	71.2%	45.7%	54.3%	412.00	337.03	205.23	1,340.58	860.85	1,021.99	1,882.84		
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									1,329.43	205.23	1,340.58	860.85	2,014.39	2,875.24			
Components (%)									46.7%	20.5%	46.8%	29.8%	70.1%	100.0%			
Unit Rate									1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00			

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

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%	403.00	96.72	0.00	0.00	0.00	96.72	96.72		
R1004-102	Electric Water Pump 3 1/2 - 4 (88.9-101.6mm)	day	1.00	0.0%	27.7%	72.3%	53.1%	46.9%	195.00	0.00	54.02	140.99	103.62	91.38	195.00		
R1001-015	Generator 11-15 kW	day	1.00	0.0%	21.1%	78.9%	56.8%	43.4%	883.00	0.00	185.31	686.69	499.66	383.34	883.00		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	5.87	5.87	5.87	5.87	11.75	1.0%	
Total									96.72	246.20	843.55	609.15	577.32	1,186.47			
Components (%)									6.2%	20.8%	71.1%	51.3%	48.7%	100.0%			
Unit Rate									97.01	246.93	846.06	610.96	579.04	1,190.00			

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

W0441 Temporary Frame Support Installation & Removal

Unit: 100.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	532.04	0.00	0.00	0.00	532.04	532.04		
L019	Skilled Labor	md	3.74	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,507.22	0.00	0.00	0.00	1,507.22	1,507.22		
L020	Unskilled Labor	md	2.97	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	932.58	0.00	0.00	0.00	932.58	932.58		
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.60	5.5%	6.5%	91.7%	52.0%	48.0%	1,330.00	117.04	144.70	1,866.26	1,105.74	1,022.26	2,128.00		
	Miscellaneous	LS	1.00	5.0%	40.0%	55.0%	50.0%	50.0%		7.53	81.20	84.15	76.50	76.50	153.00	3.0%	
Total									3,098.52	205.90	1,950.40	1,182.24	4,070.50	5,252.84			
Components (%)									36.9%	3.9%	37.1%	22.5%	71.5%	100.0%			
Unit Rate									30.95	2.06	19.49	11.82	40.88	52.50			

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)		
W05062	Temporary Frame Support (Portal 1219x1700)	day	17.58	0.0%	100.0%	0.0%	50.0%	50.0%	1.65	0.00	29.01	0.00	14.51	14.51	29.01		
W05066	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.59	0.00	41.50	0.00	20.75	20.75	41.50		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	2.82	2.82	2.82	5.64	8.0%		
Total									0.00	73.33	2.82	38.08	38.08	76.15			
Components (%)									0.0%	96.3%	3.7%	50.0%	50.0%	100.0%			
Unit Rate									0.00	0.73	0.03	0.38	0.38	0.76			

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

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount						Remarks
				Component (%)							Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	237.72	0.00	0.00	0.00	237.72	237.72		
L019	Skilled Labor	md	0.84	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	338.52	0.00	0.00	0.00	338.52	338.52		
L020	Unskilled Labor	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	131.58	0.00	0.00	0.00	131.58	131.58		
R0503-120	Vibratory																

W0452 Temporary Sheet Pile Removal for Cofferdam, (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	147.16	0.00	0.00	0.00	147.16	147.16	
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	209.56	0.00	0.00	0.00	209.56	209.56	
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	81.64	0.00	0.00	0.00	81.64	81.64	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.71	8.8%	10.0%	81.2%	49.1%	30.9%	733.00	110.30	125.34	1,917.79	615.35	638.08	1,253.43	
R0401-040	Crawler Crane, 36-40t	hr	1.71	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	123.38	280.10	2,931.03	1,772.76	1,561.74	3,334.50	
R1001-200	Generator 151-200 kW	day	0.26	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	653.45	719.35	1,558.73	557.07	1,372.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.5%	5.8%	87.7%	52.0%	48.0%	1,330.00	75.34	93.15	1,201.40	711.82	658.08	1,369.90	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total								747.38	1,152.05	5,869.56	3,915.65	3,852.34	7,768.99		
	Components (%)								9.6%	14.6%	75.6%	50.4%	49.6%	100.0%		
	Unit Rate								7.47	11.52	58.70	39.16	38.54	77.70		

$T = \{ (0.75 + y \cdot N_{max}) \cdot L + a \} \cdot K / F$
 T_c : Construction time per pile = 15.4 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.56 hr/day
 a : Coefficient = 3.43 K : Coefficient = 1.05 S : Sheet Pile width = 0.400 m
 y : Coefficient = 0.00 F : Work factor = 1.00 L : Sheet Pile length = 15.000 m
 L : Pile pullout length = 15.00 m

W0455 H-Pile Driving for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.27	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	210.93	239.69	1,946.29	1,176.71	1,220.20	2,396.91	
R0401-040	Crawler Crane, 36-40t	hr	3.27	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	235.93	535.63	5,004.94	3,390.01	2,866.49	6,376.50	
R1001-200	Generator 151-200 kW	day	0.50	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,256.64	1,383.36	1,568.71	1,071.29	2,640.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.96	5.5%	5.8%	87.7%	52.0%	48.0%	1,330.00	143.37	177.26	2,286.16	1,354.53	1,252.27	2,606.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								1,433.23	2,209.22	11,220.75	7,489.97	7,371.21	14,851.21		
	Components (%)								9.6%	14.9%	75.5%	50.4%	49.6%	100.0%		
	Unit Rate								14.37	22.15	112.45	75.09	73.91	149.00		

$T_c = (T_a + T_b) / F$
 T_c : Construction time per pile = 29.4 min/pile L : Pile Driving length = 15.00 m
 T_a : Preparation time per pile = 10.00 min/pile K : Coefficient = 0.95
 T_b : Driving time per pile = $y \cdot L \cdot K = 13.54$ 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 = 6.56 hr/day
 L : Pile Length = 15.00 m

W0456 H-Pile Removal for Temporary Access Bridge (Vibro Hammer)

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.28	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	164.14	0.00	0.00	0.00	164.14	164.14	
L019	Skilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	233.74	0.00	0.00	0.00	233.74	233.74	
L020	Unskilled Labor	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	91.06	0.00	0.00	0.00	91.06	91.06	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.88	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	121.27	137.80	1,118.97	676.52	701.52	1,378.04	
R0401-040	Crawler Crane, 36-40t	hr	1.88	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	135.64	307.94	3,222.41	1,949.00	1,717.00	3,666.00	
R1001-200	Generator 151-200 kW	day	0.29	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	728.85	802.35	909.85	617.35	1,531.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.13	5.5%	5.8%	87.7%	52.0%	48.0%	1,330.00	82.66	102.20	1,318.04	780.93	721.97	1,502.90	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00		
	Total								828.51	1,276.80	6,461.77	4,316.30	4,250.78	8,567.08		
	Components (%)								9.7%	14.9%	75.4%	50.4%	49.6%	100.0%		
	Unit Rate								8.28	12.77	64.64	43.18	42.52	85.70		

$T_c = (T_a + T_b) / F$
 T_c : Construction time per pile = 17.0 min/pile L : Pile pull out length = 15.00 m
 T_a : Preparation time per pile = 6.00 min/pile K : Coefficient = 0.95
 T_b : Pull out time per pile = $y \cdot L \cdot K = 9.26$ min/pile N_{max} : Maximum N-value = 30.00
 y : Pull out time per unit meter = 0.65 min/m F : Work factor = 0.90
 T : Operation hour per day = 6.56 hr/day
 L : Pile Length = 15.00 m

W0501 Ground Assembly of Structural Steel Bridge Members

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	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	22.64	0.00	0.00	0.00	22.64	22.64	
L019	Skilled Labor	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	92.69	0.00	0.00	0.00	92.69	92.69	
L020	Unskilled Labor	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	12.56	0.00	0.00	0.00	12.56	12.56	
R0402-100	Truck Crane, Hydraulic 91-100t	hr	0.22	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	16.67	28.89	1,065.45	597.26	513.74	1,111.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	9.91	14.87	12.39	12.39	24.78	
	Total								144.58	38.60	1,080.32	809.65	654.01	1,263.67		
	Components (%)								11.4%	3.1%	65.8%	43.2%	51.0%	100.0%		
	Unit Rate								144.14	38.63	1,077.13	807.83	652.12	1,260.00		

Miscellaneous covers the cost for generator, fuel, etc.
 $y = W / (0.038 \cdot a \cdot (n+23))$ G : Assembled weight = 1196.0 t
 y : Work capacity = 25.82 t/day a : coefficient = 1.00

W0502 Erection of Structural Steel Bridge Members

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	206.42	0.00	0.00	0.00	206.42	206.42	
L019	Skilled Labor	md	2.25	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	906.75	0.00	0.00	0.00	906.75	906.75	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	162.11	280.98	10,363.91	5,809.76	4,997.24	10,807.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	337.10	505.65	421.38	421.38	842.75	
	Total								1,384.46	618.08	10,869.57	6,231.13	6,550.97	12,882.10		
	Components (%)								10.8%	4.8%	84.4%	45.4%	51.8%	100.0%		
	Unit Rate								139.64	61.89	1,086.97	623.98	656.02	1,280.00		

Miscellaneous covers the cost for generator, fuel, etc.
 $y = W / (0.47 \cdot a \cdot (n+4)) \geq 9.0$ t/day W : Total weight of steel members = 1708 t
 y : Work capacity = 26.7 t/day n : number of members to be erected = 81
 a : Coefficient = $0.4 \cdot \sqrt{10.75 \cdot W/n}$ = 1.6

W0503 Bolting of Structural Steel Bridge Members

Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L019	Skilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	141.05	0.00	0.00	0.00	141.05	141.05	
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84	
M02071	High Tension Bolt M16	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	185.00	0.00	129.50	55.50	185.00	
M02072	High Tension Bolt M20	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	29.20	0.00	876.00	0.00	613.20	262.80	876.00	
M02073	High Tension Bolt M22	each	40.00	0.0%	100.0%	0.0%	70.0%	30.0%	42.20	0.00	1,688.00	0.00	1,181.60	506.40	1,688.00	
M02074	High Tension Bolt M24	each	20.00	0.0%	100.0%	0.0%	70.0%	30.0%	62.70	0.00	1,254.00	0.00	877.80	376.20	1,254.00	

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%	566.00	566.00	0.00	0.00	0.00	566.00		
L010	Painter	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	4,224.00	0.00	0.00	0.00	4,224.00		
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70		
M06020	Silicon Alkyd Resin Paint for Steel	kg	12.36	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	3,090.00	0.00	2,008.50	1,081.50	3,090.00	Loss 3.0%
M06020	Silicon Alkyd Resin Paint for Steel	kg	11.33	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	2,832.50	0.00	1,841.13	991.38	2,832.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	0.00	516.39	1,205.21	946.95	724.78	1,271.73	15.0%
	Total									5,555.70	6,439.02	1,205.21	4,796.56	6,403.25	13,189.53	
	Components (%)									42.1%	48.3%	9.1%	36.3%	63.7%	100.0%	
	Unit Rate	m ²								55.56	64.39	12.05	47.97	64.03	132.00	

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

W0605 Temporary Bent for Steel Bridge Erection

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20		
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30		
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80		
M05041	Temporary Steel Shores Dismantling	t	444.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.00	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.3%	8.8%	87.7%	52.0%	48.0%	1,330.00	9.51	11.76	151.63	89.84	83.06	172.90	
W0202	Concrete (Class B, 17MPa, max. max. 50mm)	m ³	0.53	3.0%	75.9%	21.1%	56.1%	43.9%	1,390.00	22.37	558.82	155.52	413.30	323.40	736.70	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m ³	0.52	18.8%	0.2%	81.0%	43.4%	56.8%	213.00	20.82	0.22	89.72	48.09	62.67	110.76	
W0236	Concrete Curing (plain concrete)	m ³	0.52	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	3.26	0.40	0.94	0.74	3.86	4.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	0.00	46.82	139.87	279.75	233.12	233.12	466.24	3.0%
	Total									721.88	14,608.27	677.53	7,733.68	8,274.02	16,007.70	
	Components (%)									4.5%	91.3%	4.2%	48.3%	51.7%	100.0%	
	Unit Rate	t								721.54	14,601.24	677.23	7,729.96	8,270.04	16,000.00	

Miscellaneous covers the cost for preparation of foundation bed, maintenance, etc.
 D = 0.22 * T * 1.4
 D : Required days = 123.87 days
 Depreciation period = 444 days
 T : Total weight of bent = 358.70 t
 Base Concrete = 288.00 m³

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%	566.00	849.00	0.00	0.00	0.00	849.00		
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,500.00	0.00	0.00	0.00	1,500.00		
L019	Skilled Labor	md	11.98	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,827.94	0.00	0.00	0.00	4,827.94		
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%	59.9%	40.1%	3,610.00	0.00	5,653.28	5,176.74	6,492.32	4,337.48	10,830.00	
R1002-160	Air Compressor 120-160 cfm (3.6-4.5m ³ /min)	day	3.00	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,743.06	4,526.94	3,588.45	2,681.55	6,270.00	
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	50.0%	50.0%	0.00	114.95	1,532.38	2,183.64	1,915.48	1,915.48	3,830.95	14.0%
	Total									7,291.87	10,793.25	13,109.77	13,868.30	17,326.99	31,194.89	
	Components (%)									23.4%	34.6%	42.0%	44.5%	55.5%	100.0%	
	Unit Rate	m								729.31	1,079.50	1,311.19	1,387.08	1,732.94	3,120.00	

Miscellaneous covers the cost for welding rods, acetylene gas, falseworks, testing, etc.
 G = M * x / (0.10 * M + 12.2)
 G : Daily productivity = 6.65 m/day
 M : Total length of welding = 446.5 m
 x : Coefficient due to average thickness = 0.85

W0521 Precast PC Girder Fabrication Base Construction & Removal

Unit: 25.00 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	2.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,177.28	0.00	0.00	0.00	1,177.28		
L019	Skilled Labor	md	6.24	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,514.72	0.00	0.00	0.00	2,514.72		
L019	Skilled Labor	md	10.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,191.20	0.00	0.00	0.00	4,191.20		
L020	Unskilled Labor	md	26.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	8,164.00	0.00	0.00	0.00	8,164.00		
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	2,487.32	2,487.32	2,736.05	2,238.58	4,874.63	31.0%
	Total									16,047.20	2,487.32	2,487.32	2,736.05	18,288.78	21,021.83	
	Components (%)									76.5%	11.8%	11.8%	13.0%	87.0%	100.0%	
	Unit Rate	girder								641.90	99.51	99.51	109.46	731.34	841.00	

Miscellaneous covers the cost for lumber, plywood, nail, etc.
 Total number of girders = 25
 Maximum Girder Length = 25.000 m
 Number of bases = 4

W0522 Precast PC Girder Fabrication Base Maintenance

Unit: 1.00 girder

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L005	Carpenter	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	230.88	0.00	0.00	0.00	230.88		
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	81.64	0.00	0.00	0.00	81.64		
	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									312.52	0.00	0.00	0.00	312.52	312.52	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	girder								313.00	0.00	0.00	0.00	313.00	313.00	

Base Length = 25.000 m

W0525 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	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60		
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,780.70	0.00	0.00	0.00	2,780.70		
L020	Unskilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,821.20	0.00	0.00	0.00	1,821.20		
M09306	PC Strand, T12.7	kg	656.35	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	74,167.55	0.00	51,917.29	22,250.27	74,167.55	Loss 6.0%
M09431	PC Sheath, 465	m	105.00	0.0%	100.0%	0.0%	85.0%	35.0%	115.00	0.00	12,075.00	0.00	7,848.75	4,226.25	12,075.00	Loss 5.0%
W0225	Grout (non-shrink)	m ³	0.23	1.0%	96.2%	2.8%	61.2%	38.8%	3,060.00	6.93	677.24	19.63	431.00	372.80	703.60	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	739.63	184.91	508.50	416.34	924.54	1.0%
	Total									5,514.43	87,659.42	204.34	60,705.53	52,872.86	93,378.39	
	Components (%)									9.9%	93.9%	0.2%	65.0%	35.0%	100.0%	
	Unit Rate	m								55.16	876.80	2.05	607.20	326.80	934.00	

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

W0526 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%	566.00	962.20	0.00	0.00	0.00		

W0538 PC Strand (1-T16.2, 30t) Installation for Precast PC Deck Slab

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	509.40	0.00	0.00	0.00	509.40	509.40
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	846.30	0.00	0.00	0.00	846.30	846.30
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20
M09307	PC Strand, T16.2	kg	116.71	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	13,889.49	0.00	9,721.94	4,166.55	13,889.49
M09322	PC Sheath, 22B	m	106.00	0.0%	100.0%	0.0%	55.0%	35.0%	52.20	0.00	5,532.20	0.00	3,586.58	1,956.62	5,532.20
W0225	Grout (non-shrink)	m3	0.03	1.0%	96.2%	2.8%	51.2%	38.9%	3,060.00	1.51	147.23	4.27	59.69	59.31	153.00
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	170.71	42.68	117.96	95.02	213.39
	Total								1,765.41	19,739.63	46.94	13,529.58	8,022.40	21,551.96	
	Components (%)								8.2%	91.5%	0.2%	62.9%	37.2%	100.0%	
	Unit Rate	m							17.69	197.84	0.47	135.60	80.40	216.00	

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

W0545 PC Strand (8-T12.7, 180t) Tensioning for Precast PC Girder

Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00
L019	Skilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,095.60	0.00	0.00	0.00	2,095.60	2,095.60
L020	Unskilled Labor	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,381.60	0.00	0.00	0.00	1,381.60	1,381.60
M09345	PC Anchorage, 130, 150t RT13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00	0.00	57,900.00	0.00	43,425.00	14,475.00	57,900.00
M09365	PC Anchorage 130, 150t RT13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	7,950.00	0.00	79,500.00	0.00	59,625.00	19,875.00	79,500.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	984.00	534.15	449.85	984.00
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	2,283.36	570.84	1,569.81	1,284.39	2,854.20
	Total								4,326.20	138,683.36	1,554.84	105,153.97	40,410.44	145,564.40	
	Components (%)								3.0%	96.0%	1.1%	72.2%	27.8%	100.0%	
	Unit Rate	cable							433.91	14,010.14	155.95	10,546.96	4,050.14	14,500.00	

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

W0546 PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder

Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,256.80	0.00	0.00	0.00	2,256.80	2,256.80
L020	Unskilled Labor	md	4.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,507.20	0.00	0.00	0.00	1,507.20	1,507.20
M09346	PC Anchorage 195, 225t 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
M09366	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.60	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	1,049.60	569.77	479.83	1,049.60
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	3,073.91	768.45	2,113.31	1,729.07	3,842.38
	Total								4,669.60	169,473.91	1,818.08	142,483.08	53,478.51	195,961.58	
	Components (%)								2.4%	96.7%	0.9%	72.2%	27.3%	100.0%	
	Unit Rate	cable							467.05	18,951.11	181.84	14,251.10	5,348.90	19,600.00	

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

W0547 PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder

Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	962.20	962.20
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,256.80	0.00	0.00	0.00	2,256.80	2,256.80
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80
M09346	PC Anchorage 195, 225t 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
M09366	PC Anchorage 195, 225t 12T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	106,000.00	0.00	79,500.00	26,500.00	106,000.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump 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	3,077.87	769.47	2,116.04	1,721.30	3,847.34
	Total								4,851.80	169,473.91	1,864.67	142,521.41	53,682.93	196,214.34	
	Components (%)								2.5%	96.6%	1.0%	72.5%	27.4%	100.0%	
	Unit Rate	cable							484.65	18,927.09	188.25	14,236.57	5,363.43	19,600.00	

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

W0548 PC Strand (1-T16.2, 30t) Tensioning for Precast PC Deck Slab

Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	523.90	0.00	0.00	0.00	523.90	523.90
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20
M09348	PC Anchorage 30t 1T16.2 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	828.00	0.00	8,280.00	0.00	6,210.00	2,070.00	8,280.00
M09368	PC Anchorage 30t 1T16.2 (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	323.90	80.96	222.68	182.20	404.88
	Total								1,001.50	19,303.90	345.38	14,038.12	6,048.45	20,668.78	
	Components (%)								4.2%	93.5%	1.7%	70.3%	29.2%	100.0%	
	Unit Rate	cable							99.91	1,925.83	34.26	1,456.56	602.44	2,060.00	

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

W0549 Secondary Concrete for Precast PC Deck Slab

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00
W0206	Concrete (Class A2, 28MPa, max. agr. 20mm)	m3	10.20	2.2%	83.0%	14.8%	57.8%	42.2%	1,860.00	414.66	15,750.88	2,806.46	10,974.40	7,997.60	18,972.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.54	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	113.70	126.88	1,407.22	847.83	799.97	1,647.80
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	
	Total								1,277.96	18,877.77	4,213.88	11,822.23	9,547.17	21,369.40	
	Components (%)								6.0%	74.3%	19.7%	55.3%	44.7%	100.0%	
	Unit Rate	m3							127.08	1,590.05	421.87	1,183.92	956.98	2,140.00	

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

W0551 Precast PC Girder Erection (W < 12.5t)

W0553 Precast PC Girder Erection (15.0 ≤ W < 17.5t)

Unit: 100.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00	
R0402-080	Truck Crane, Hydraulic 71-80t	hr	5.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,426.07	9,409.51	8,177.29	17,586.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.50		
Components (%)									31.4%	3.4%	75.3%	43.1%	56.9%	100.0%		
Unit Rate									46.56	7.38	164.06	93.98	124.02	218.00		
Work Capacity =									100 t/day							

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

Unit: 110.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00	
R0402-080	Truck Crane, Hydraulic 71-80t	hr	5.71	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00	422.08	738.65	16,426.07	9,409.51	8,177.29	17,586.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.50		
Components (%)									31.4%	3.4%	75.3%	43.1%	56.9%	100.0%		
Unit Rate									42.29	6.70	149.01	85.36	112.64	198.00		
Work Capacity =									110 t/day							

W0555 Precast PC Girder Erection (20.0 ≤ W < 35.0 t)

Unit: 190.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-080	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	36,173.60	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									6,204.17	1,477.29	32,852.14	18,819.03	21,714.57	40,533.50		
Components (%)									15.3%	3.6%	81.0%	46.4%	53.6%	100.0%		
Unit Rate									32.60	7.76	172.63	98.89	114.11	213.00		
Work Capacity =									190 t/day							

W0556 Precast PC Girder Erection (35.0 ≤ W < 60.0 t)

Unit: 225.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-120	Truck Crane, Hydraulic 101-120t	hr	11.42	1.1%	1.9%	97.0%	53.9%	46.1%	6,960.00	874.32	1,510.18	77,098.70	42,863.73	36,629.45	79,483.20	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									8,234.32	1,510.18	77,098.70	42,863.73	41,989.45	84,843.20		
Components (%)									7.3%	1.8%	90.9%	50.5%	49.5%	100.0%		
Unit Rate									27.70	6.71	342.59	190.42	186.56	377.00		
Work Capacity =									225 t/day							

W0557 Precast PC Girder Erection (60.0 ≤ W < 75.0 t)

Unit: 235.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-140	Truck Crane, Hydraulic 121-140t	hr	11.42	0.9%	1.9%	97.2%	54.0%	46.0%	8,240.00	846.91	1,787.93	91,465.98	50,842.73	43,258.68	94,100.80	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									10,206.91	1,787.93	91,465.98	50,842.73	46,618.68	99,460.80		
Components (%)									6.2%	1.8%	92.0%	51.1%	48.9%	100.0%		
Unit Rate									26.40	7.60	389.00	216.23	206.77	423.00		
Work Capacity =									235 t/day							

W0558 Precast PC Girder Erection (75.0 ≤ W < 90.0 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%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-160	Truck Crane, Hydraulic 141-160t	hr	11.42	0.8%	1.9%	97.3%	54.1%	45.9%	8,950.00	817.67	1,941.97	99,449.36	55,294.14	46,914.86	102,209.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									8,177.67	1,941.97	99,449.36	55,294.14	52,274.86	107,568.00		
Components (%)									5.7%	1.8%	92.5%	51.4%	48.6%	100.0%		
Unit Rate									24.69	7.76	397.54	221.05	208.97	430.00		
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	2.6%	80.1%	17.4%	55.7%	43.3%	1,620.00	443.33	13,917.74	3,021.53	9,857.47	7,325.13	17,382.60	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.52	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	420.02	5.30	2,278.32	1,220.95	1,482.69	2,703.64	
W0237	Concrete Curing (reinforced concrete)	m3	10.52	74.6%	7.6%	17.6%	14.0%	86.0%	4.21	33.05	3.37	7.87	6.18	38.11	44.29	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	262.60	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	929.22	4,711.64	477.72	3,303.72	2,914.96	6,118.58	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	118.14	116.73	1,171.53	712.39	694.01	1,406.40	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
	Miscellaneous	LS	1.00		0.0%	50.0%	55.0%	45.0%	0.00	0.00	300.81	330.89	0.00	270.73	801.61	2.0%
Total									4,384.98	19,055.58	7,257.79	15,421.50	15,250.72	30,592.32		
Components (%)									14.2%	82.1%	23.7%	50.3%	49.7%	100.0%		
Unit Rate									437.1							

W0603 Pier Protection Concrete Block Type C Production & laying

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.09	2.0%	80.1%	17.4%	56.7%	43.3%	1,620.00	418.89	13,087.60	2,841.31	9,269.61	7,076.29	16,345.80	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	9.89	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	394.86	4.98	2,141.88	1,147.84	1,393.69	3,541.73	
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.0%	7.6%	17.8%	14.0%	86.0%	4.21	31.07	3.17	7.40	5.81	35.53	41.64	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	838.28	4,250.32	430.97	2,980.40	2,599.37	5,519.77	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.4%	8.3%	83.3%	50.0%	49.3%	879.00	118.14	116.73	1,171.53	712.39	634.01	1,406.40	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
L020	Miscellaneous	LS	1.00	0.0%	50.0%	30.0%	55.0%	45.0%	0.00	282.81	282.81	311.09	254.52	565.61	2.0%	
Total									4,224.44	17,745.81	6,875.90	14,427.02	14,419.12	28,846.13		
Components (%)									14.6%	61.9%	23.8%	50.0%	50.0%	100.0%		
Unit Rate									422.44	1,774.58	687.59	1,442.70	1,441.91	2,884.61		

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

W0611 Stone Laying

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.53	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40	
W0129	Gravel/Stone, transported	m3	113.00	11.5%	18.8%	89.8%	45.4%	54.6%	216.00	2,816.15	4,542.96	17,048.98	11,082.77	13,325.23	24,408.90	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	8.70	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	666.07	1,271.59	13,200.34	8,004.77	7,133.23	15,138.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.60	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
W0442	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									3,953.62	5,814.45	30,249.32	19,087.54	20,929.86	40,017.40		
Components (%)									9.9%	14.5%	75.6%	47.7%	52.3%	100.0%		
Unit Rate									39.54	58.14	302.49	190.79	209.21	400.00		

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

W0651 Temporary Support at Pier Head for Cantilever Construction

Unit: 10.00 v-m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L005	Carpenter	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	177.60	0.00	0.00	0.00	177.60	177.60	
L019	Skilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	523.90	0.00	0.00	0.00	523.90	523.90	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W0442	Temporary Frame Support Depreciation	m3-d	740.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.75	0.00	543.00	20.88	281.94	281.94	563.88	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	1,181.76	1,092.54	2,274.30	2.0%
W0442	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,461.19	756.09	2,040.49	1,505.44	2,732.32	4,257.77		
Components (%)									34.3%	17.8%	47.9%	35.4%	64.6%	100.0%		
Unit Rate									146.20	75.61	204.15	150.62	275.38	425.00		

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

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	88.80	0.00	0.00	0.00	88.80	88.80	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	967.20	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
W05041	Temporary Steel Shanes 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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.65	1,994.56	1,181.76	1,092.54	2,274.30	23.0%
W0442	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,909.89	3,497.23	2,434.45	3,072.39	4,768.60	7,841.62		
Components (%)									24.4%	44.5%	31.0%	39.2%	50.0%	100.0%		
Unit Rate									1,909.89	3,497.23	2,434.45	3,072.39	4,768.61	7,841.62		

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

W0653 Temporary External & Internal Support at Pier Head for Cantilever Construction

Unit: 10.00 v-m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	44.40	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
W0442	Temporary Frame Support Depreciation	m3-d	570.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	418.25	16.09	217.17	217.17	434.34	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	364.18	758.10	
W0442	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	46.25	19.82	33.04	33.04	66.08	4.0%
Total									501.20	515.96	760.78	844.13	1,073.89	1,719.02		
Components (%)									28.2%	30.8%	40.8%	37.2%	52.8%	100.0%		
Unit Rate									50.12	51.60	76.08	84.41	107.39	171.90		

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

W0654 Temporary Suspension Support at Center Connection for Cantilever Construction

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L005	Carpenter	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	0.00	0.00	0.00	0.00	0.00	0.00	
L019	Skilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,047.80	0.00	0.00	0.00	1,047.80	1,047.80	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W05041	Temporary Steel Shanes 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	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80	
W0442	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	1,203.66	516.88	859.78	859.78	1,719.51	20.0%
Total									2,045.61	2,425.52	3,851.79	3,321.42	3,011.59	5,333.01		
Components (%)									24.6%	29.2%	45.2%	39.2%	50.0%	100.0%		
Unit Rate									2,045.61	2,425.52	3,851.79	3,321.42	3,011.59	5,333.01		

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc. Provided days = 31.0 days

W0655 Temporary External & Internal Support at Center Connection for Cantilever Construction

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

Unit: 10.00 v-m3

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	44.40	
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
M0442	Temporary Frame Support Deroaction	m3-d	530.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	388.90	14.96	201.93	201.93	403.86	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	3.3%	5.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	393.92	354.19	758.19		
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	45.40	19.46	32.43	32.43	64.86	
	Total								501.20	483.83	699.27	628.28	1,068.04	1,686.32		
	Components (%)								29.7%	29.6%	41.5%	37.9%	62.7%	100.0%		
	Unit Rate								50.23	48.69	70.08	62.97	106.03	168.03		

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

W0661 Assembly & Disassembly of Form Traveler

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	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	3,376.80	0.00	0.00	0.00	3,376.80	3,376.80	
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	36,673.00	0.00	0.00	0.00	36,673.00	36,673.00	
L020	Unskilled Labor	md	85.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	26,941.20	0.00	0.00	0.00	26,941.20	26,941.20	
R0402-045	Truck Crane, Hydraulic 41-45t	hr	85.65	3.3%	5.0%	91.7%	53.1%	46.9%	2,240.00	6,331.25	9,592.80	173,931.95	101,824.89	90,031.11	191,856.00	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	0.00	49,867.09	21,371.61	35,619.35	35,619.35	71,238.69	
	Total								78,322.23	59,459.89	197,303.50	137,444.24	197,541.45	335,085.69		
	Components (%)								23.4%	17.7%	58.2%	41.0%	59.0%	100.0%		
	Unit Rate								78,302.22	59,444.69	197,253.10	137,409.09	197,590.51	335,000.00		

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

W0662 Form Traveler Shifting

Unit: 1.00 time

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	509.40	0.00	0.00	0.00	509.40	509.40	
L019	Skilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	564.20	0.00	0.00	0.00	564.20	564.20	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	0.00	265.49	176.99	221.24	221.24	442.48	
	Total								1,838.90	265.49	176.99	221.24	1,860.04	2,081.28		
	Components (%)								78.7%	12.8%	6.5%	10.6%	89.4%	100.0%		
	Unit Rate								1,637.80	265.32	176.88	221.10	1,858.90	2,080.00		

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						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L019	Skilled Labor	md	5.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,216.50	0.00	0.00	0.00	2,216.50	2,216.50	
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00		
	Total								4,980.50	0.00	0.00	0.00	4,980.50	4,980.50		
	Components (%)								100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
	Unit Rate								4,980.00	0.00	0.00	0.00	4,980.00	4,980.00		

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						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00		
	Total								1,443.40	0.00	0.00	0.00	1,443.40	1,443.40		
	Components (%)								100.0%	0.0%	0.0%	0.0%	100.0%	100.0%		
	Unit Rate								144.34	0.00	0.00	0.00	144.34	144.34		

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

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

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,490.40	0.00	0.00	0.00	2,490.40	2,490.40	
L019	Skilled Labor	md	23.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	9,389.90	0.00	0.00	0.00	9,389.90	9,389.90	
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	5,432.20	0.00	0.00	0.00	5,432.20	5,432.20	
M09306	PC Strand, T12.7	kx	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,846.00	35,934.00	119,780.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	250.90	310.21	4,000.79	2,370.43	2,191.47	4,361.90	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	9,965.88	2,285.47	8,232.78	5,099.56	11,332.50	
	Total								17,563.40	129,156.09	6,287.26	92,449.22	60,537.52	152,986.25		
	Components (%)								11.3%	84.4%	80.4%	59.4%	39.0%	100.0%		
	Unit Rate								17,564.93	129,167.28	6,287.90	92,457.23	60,542.77	153,000.00		

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

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

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,209.00	0.00	0.00	0.00	1,209.00	1,209.00	
M09366	PC Anchorage 195.225t (2713E (F))	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00	0.00	105,000.00	0.00	79,500.00	25,500.00	105,000.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	12,865.08	8,576.72	11,782.93	9,648.81	21,441.80	
	Total								1,209.00	118,665.08	8,576.72	91,292.99	37,351.81	128,650.80		
	Components (%)								0.9%	92.4%	6.7%	71.0%	29.0%	100.0%		
	Unit Rate								121.23	11,918.77	860.00	9,154.08	3,745.92	12,900.00		

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

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

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L019	Skilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,506.10	0.00	0.00	0.00	3,506.10	3,506.10	
L020	Unskilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,664.20	0.00	0.00	0.00	1,664.20	1,664.20	
M09346	PC Anchorage 195.225t (2713M (T))	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00	
R1007-002	Power Unit (Jack), hydraulic, HP=2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%										

W0677 PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	846.30	0.00	0.00	0.00	846.30	846.30
M09363	PC Anchoraze ϕ 32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	2,082.02	1,388.02	1,908.32	1,561.32	3,470.04
	Total								846.30	14,582.02	1,388.02	11,283.32	5,532.32	16,816.34	
	Components (%)								5.0%	96.7%	8.3%	67.1%	32.9%	100.0%	
	Unit Rate	each							84.63	1,458.19	138.80	1,128.33	552.24	1,680.00	

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

W0678 PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	
L019	Skilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,015.00	0.00	0.00	0.00	2,015.00	
L020	Unskilled Labor	md	2.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	659.40	0.00	0.00	0.00	659.40	
M09343	PC Sheath, ϕ 75	m	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	150.00	0.00	1,500.00	0.00	975.00	525.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	721.60	391.71	329.89	
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	643.28	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	407.78	271.85	373.79	305.83	
	Total								3,297.00	1,927.77	3,006.26	2,846.98	5,354.06	8,231.03	
	Components (%)								40.1%	23.4%	36.5%	34.8%	55.4%	100.0%	
	Unit Rate	each							329.70	192.78	300.63	284.70	535.41	823.10	

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

W0681 PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Transversal)

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,480.80	0.00	0.00	0.00	5,480.80	
L020	Unskilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,355.00	0.00	0.00	0.00	2,355.00	
M09313	PC Tendon, ϕ 32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	55.0%	45.0%		0.00	7,130.17	1,782.54	4,901.99	4,010.72	
	Total								8,930.61	143,388.83	5,118.48	102,078.51	55,379.41	157,437.91	
	Components (%)								5.7%	91.1%	3.3%	84.8%	35.2%	100.0%	
	Unit Rate	t							8,924.58	142,971.83	5,103.89	101,781.65	55,218.35	157,000.00	

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

W0682 PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	
M09374	PC Anchoraze ϕ 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,501.76	1,001.17	1,376.61	1,126.32	
	Total								443.30	16,701.76	1,001.17	12,776.61	5,369.62	18,146.23	
	Components (%)								2.4%	92.0%	5.9%	70.4%	29.0%	100.0%	
	Unit Rate	each							44.22	1,665.92	99.86	1,274.41	535.99	1,810.00	

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

W0683 PC Bar Tensioning, (ϕ 32mm) for PC Box Girder (Transversal)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	
L019	Skilled Labor	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	
M09354	PC Anchoraze ϕ 32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	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%	656.00	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	313.88	209.25	287.72	235.41	
	Total								2,934.60	12,828.42	2,197.91	10,752.31	7,208.62	17,960.93	
	Components (%)								16.3%	71.4%	12.2%	59.9%	40.1%	100.0%	
	Unit Rate	each							294.10	1,282.84	220.27	1,075.23	722.43	1,800.00	

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

W0686 PC Bar Installation, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	
L019	Skilled Labor	md	13.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	5,480.80	0.00	0.00	0.00	5,480.80	
L020	Unskilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,355.00	0.00	0.00	0.00	2,355.00	
M09313	PC Tendon, ϕ 32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	55.0%	45.0%		0.00	7,130.17	1,782.54	4,901.99	4,010.72	
	Total								8,930.61	143,388.83	5,118.48	102,078.51	55,379.41	157,437.91	
	Components (%)								5.7%	91.1%	3.3%	84.8%	35.2%	100.0%	
	Unit Rate	t							8,924.58	142,971.83	5,103.89	101,781.65	55,218.35	157,000.00	

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

W0687 PC Bar Anchorage, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)

Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	
M09374	PC Anchoraze ϕ 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,501.76	1,001.17	1,376.61	1,126.32	
	Total								443.30	16,701.76	1,001.17	12,776.61	5,369.62	18,146.23	
	Components (%)								2.4%	92.0%	5.9%	70.4%	29.0%	100.0%	
	Unit Rate	each							44.22	1,665.92	99.86	1,274.41	535.99	1,810.00	

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

W0688 PC Bar Tensioning, (1- ϕ 32mm) for PC Box Girder (Vertical in Web)

Unit: 10.00 each

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

W0701 Precast Concrete Cover (580x480x70), furnish											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0204	Concrete (Class C. 21MPa. max agr. 12mm)	m3	1.76	2.4%	81.9%	15.8%	56.9%	43.1%	1,720.00	71.32	2,478.02	417.86	1,723.91	1,303.29	3,027.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.73	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	69.07	0.87	374.67	200.78	243.83	444.61	
W0237	Concrete Curline (reinforced concrete)	m3	1.73	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	5.43	0.55	1.29	1.02	6.26	7.28	
W02001	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	4,866.40	
W02011	Structural Steel (Round Bar, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,271.56	0.00	1,590.09	681.47	2,271.56	
W02014	Structural Steel (Shapes, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	675.84	0.00	473.09	202.75	675.84	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.17	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	10.24	14.63	50.95	37.15	38.67	75.82	
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	50.0%	50.0%	0.00	273.33	68.33	170.83	170.83	341.66	3.0%	
	Total								156.06	10,601.21	973.10	7,373.03	4,357.34	11,730.37		
	Components (%)								1.3%	90.4%	8.3%	62.9%	37.1%	100.0%		
	Unit Rate	each							1.56	105.74	9.71	73.54	43.45	117.00		

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

W0702 Precast Concrete Cover (580x480x70), installation											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	753.60	0.00	0.00	0.00	753.60		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	11.08	99.73	55.40	55.40	110.81	12.0%
	Total								880.00	1,617.40	111.81	55.40	55.40	1,939.61		
	Components (%)								88.3%	1.4%	6.6%	5.4%	94.6%	100.0%		
	Unit Rate	each							8.80	16.17	1.12	0.55	0.55	19.39		

Miscellaneous covers the cost for cart, etc.

W0703 Precast Concrete Cover (680x580x75), furnish											Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0204	Concrete (Class C. 21MPa. max agr. 12mm)	m3	3.02	2.4%	81.9%	15.8%	56.9%	43.1%	1,720.00	122.37	4,252.06	819.96	2,958.08	2,236.32	6,194.40	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.96	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	650.04	1.30	11.70	7.15	655.89	663.04	
W0237	Concrete Curline (reinforced concrete)	m3	2.96	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	9.30	0.95	2.21	1.74	10.72	12.45	
W02001	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	
W02011	Structural Steel (Round Bar, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	837.12	0.00	585.98	251.14	837.12	
W02014	Structural Steel (Shapes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	1,833.92	0.00	1,283.74	550.18	1,833.92	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.29	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	17.45	24.96	86.92	63.37	65.97	129.34	
	Miscellaneous	LS	1.00	0.0%	60.0%	20.0%	50.0%	50.0%	0.00	0.00	441.29	110.32	275.81	275.81	551.61	3.0%
	Total								799.17	17,105.40	1,031.12	11,491.79	7,446.91	18,558.69		
	Components (%)								4.2%	80.3%	5.8%	50.7%	39.3%	100.0%		
	Unit Rate	each							7.99	170.73	10.29	114.68	74.52	189.00		

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

W0704 Precast Concrete Cover (680x580x75), installation											Unit: 100.00 each				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (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%	566.00	169.80	0.00	0.00	0.00	169.80	169.80
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	753.60	0.00	0.00	0.00	753.60	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	110.81	55.40	55.40	110.81	12.0%
	Total								880.00	1,617.40	111.81	55.40	55.40	1,939.61	
	Components (%)								88.3%	0.0%	10.7%	5.4%	94.6%	100.0%	
	Unit Rate	each							8.80	16.17	1.10	0.55	0.55	19.39	

Miscellaneous covers the cost for cart, etc.

W0711 Iron Step for Drop Inlet Manholes, furnish & installation											Unit: 100.00 each				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	
W02011	Structural Steel (Round Bar, SS400)	kg	225.90	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	86.58	346.32	216.45	432.90	8.0%
	Total								464.80	5,033.00	346.32	3,675.94	2,165.17	5,844.12	
	Components (%)								5.0%	86.1%	5.9%	63.0%	37.0%	100.0%	
	Unit Rate	each							4.65	50.29	3.46	36.76	21.64	58.40	

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

W0712 Iron Step for Special Junction Box Manholes, furnish & installation											Unit: 100.00 each				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	
W02011	Structural Steel (Round Bar, SS400)	kg	209.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,569.28	0.00	3,198.50	1,370.78	4,569.28
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	80.55	322.18	201.36	402.73	8.0%
	Total								464.80	4,649.83	322.18	3,399.86	2,036.95	5,436.61	
	Components (%)								5.5%	85.5%	5.9%	62.5%	37.5%	100.0%	
	Unit Rate	each							4.65	46.53	3.22	34.02	20.38	54.40	

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

W0716 Steel Grate for Manhole Inlet, furnish & installation											Unit: 40.00 kg					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					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%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20		
W02001	Reinforcing Bars, Grade 40	kg	41.20	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	659.20	0.00	428.48	230.72	659.20	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	30.0%	50.0%	0.00	0.00	8.99	44.96	44.96	89.92	8.0%	
	Total								464.80	668.19	30.93	473.44	740.48	1,213.92		
	Components (%)								38.3%	55.0%	6.7%	39.0%	61.0%	100.0%		
	Unit Rate	kg							11.60	16.68	2.02	11.82	18.48	30.30		

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

W0721 Grating Cover for U-Ditch (W=300mm), furnish & installation											Unit: 10.00 m2				
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L009	Welder	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	660.00	0.00	0.00	0.00	660.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	
W02014	Structural Steel (Flat Bar, SS400)	kg	206.50	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	3,634.40	0.00	2,544.08	1,090.32	3,634.40
W02012	Structural Steel (Flat Bar, SS400)	kg	289.20	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	6,110.84	0.00	4,277.59	1,833.25	6,110.84
W02001	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												

W0732 Granular Bedding for Rubble Concrete

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	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	890.80	0.00	0.00	0.00	890.80	890.80	
W0122	Crushed Aggregate, transported	m3	12.00	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	304.41	522.06	2,497.53	1,571.62	1,752.38	3,324.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	16.54	66.17	41.36	41.36	82.71	2.0%
	Total									1,116.31	1,538.61	2,597.70	1,612.87	2,505.44	4,218.41	
	Components (%)									26.5%	12.8%	60.8%	38.2%	61.8%	100.0%	
	Unit Rate		m3							111.63	53.85	256.47	161.36	260.64	422.00	

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

W0733 Washout Prevention Filter, furnish and laying

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	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	16.84	0.00	0.00	0.00	16.84	16.84	
M10202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	0.0%	40.0%	82.30	0.00	880.61	0.00	528.37	352.24	880.61	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	1.80	16.19	8.99	8.99	17.99	2.0%
	Total									16.84	882.41	16.19	537.36	360.58	917.44	
	Components (%)									2.1%	96.2%	1.8%	58.6%	41.4%	100.0%	
	Unit Rate		m2							1.68	88.20	1.62	53.71	37.99	91.70	

Miscellaneous covers the costs for minor tools, etc.

W0741 Grouted Riprap Class 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)	
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80	
W0129	Gravel/Stone, transported	m3	9.00	11.5%	18.6%	69.8%	45.4%	54.6%	216.00	224.30	381.82	1,357.88	882.70	1,061.30	1,944.00	Loss 20.0%
W0221	Mortar (1:3)	m3	2.55	1.7%	93.4%	4.9%	58.1%	42.0%	1,830.00	78.61	4,357.26	230.63	2,708.03	1,938.47	4,666.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	74.71	37.36	37.36	74.71	1.0%
	Total									1,163.31	4,719.08	1,663.22	3,628.08	3,917.73	7,545.81	
	Components (%)									15.3%	62.5%	22.0%	48.1%	51.9%	100.0%	
	Unit Rate		m3							116.42	472.17	166.41	363.01	391.99	755.00	

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

W0742 Stone Masonry, laid

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L007	Masonry	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	277.80	0.00	0.00	0.00	277.80	277.80	
L020	Unskilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	690.80	0.00	0.00	0.00	690.80	690.80	
W0129	Gravel/Stone, transported	m3	8.40	11.5%	18.6%	69.8%	45.4%	54.6%	216.00	209.34	337.70	1,267.36	823.85	990.55	1,814.40	Loss 20.0%
W0222	Mortar (1:2)	m3	3.06	1.5%	93.6%	4.9%	58.1%	41.9%	2,350.00	108.23	6,742.00	350.78	4,180.81	3,010.19	7,191.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	101.44	50.72	50.72	101.44	1.0%
	Total									1,455.97	7,069.70	1,710.57	5,055.39	5,189.85	10,245.24	
	Components (%)									14.2%	69.0%	16.8%	49.3%	50.7%	100.0%	
	Unit Rate		m3							144.95	703.85	171.20	503.31	516.69	1,020.00	

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L007	Masonry	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	509.30	0.00	0.00	0.00	509.30	509.30	
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	910.60	0.00	0.00	0.00	910.60	910.60	
M12012	Concrete Hollow Block (load bearing) 6"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%	93.4%	4.9%	58.0%	42.0%	1,830.00	11.41	632.23	33.46	392.93	294.17	677.10	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	38.70	19.35	19.35	38.70	1.0%
	Total									1,684.11	1,952.23	72.16	742.28	3,186.22	3,908.50	
	Components (%)									48.2%	49.9%	1.8%	49.3%	50.0%	100.0%	
	Unit Rate		each							18.85	19.53	0.72	7.43	31.67	39.10	

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

W0852 Aggregate Subbase Course for Side Walk (r=100mm)

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	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
R0305-037	Vibratory Single Smooth Drum 3.75t (Vibration Roller, combined, 3-4t)	hr	1.93	20.4%	9.1%	70.5%	44.2%	55.8%	429.00	168.91	73.35	583.72	366.00	461.97	827.97	
R0306-006	Vibration Hammer, 6in	day	0.85	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	66.34	67.95	84.14	54.16	134.50	
W0122	Crushed Aggregate, transported	m3	13.56	9.2%	15.7%	75.1%	47.3%	52.7%	277.00	342.88	589.95	2,822.21	1,775.99	1,980.19	3,756.12	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									1,454.89	731.62	3,473.88	2,222.07	3,438.32	5,660.59	
	Components (%)									25.7%	12.9%	61.4%	39.3%	60.7%	100.0%	
	Unit Rate		m2							14.55	7.32	24.74	22.22	34.38	56.60	

W0853 PCC Pavement (Plain), t=100mm for Side Walk

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%	566.00	509.40	0.00	0.00	0.00	509.40	509.40	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,418.00	0.00	0.00	0.00	2,418.00	2,418.00	
L020	Unskilled Labor	md	11.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,611.00	0.00	0.00	0.00	3,611.00	3,611.00	
W0203	Concrete (Class A, 21MPa, max spec. 38mm)	m3	10.40	2.6%	80.1%	17.4%	56.7%	43.3%	1,620.00	429.69	13,489.70	2,928.61	9,554.30	7,293.70	16,848.00	Loss 4.0%
W07101	Joint Filler (bituminous t=10mm)	m2	2.50	0.0%	100.0%	0.0%	60.0%	40.0%	286.00	0.00	715.00	0.00	429.00	286.00	715.00	
W07111	Joint Sealant (10x10mm)	m	80.09	0.0%	100.0%	0.0%	60.0%	40.0%	62.70	0.00	3,135.00	0.00	1,881.00	1,284.00	3,135.00	
W02011	Structural Steel (Round Bar, SS400)	kg	246.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	5,375.88	0.00	3,783.12	1,612.76	5,375.88	
W02011	Steel Gas Pipe, 625	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	0.0%
	Total									6,968.09	28,799.38	2,828.61	19,277.82	19,418.46	41,791.98	
	Components (%)									16.7%	68.9%	7.0%	45.1%	46.5%	100.0%	
	Unit Rate		m2							69.69	288.05	29.29	192.62	194.22	418.00	

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

W0872 Guardrail Typ B, furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	nd	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	45.28	0.00	0.00	0.00	46.28	45.28	
L009	Welder	nd	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	80.00	0.00	0.00	0.00	80.00	80.00	
L010	Painter	nd	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	70.40	0.00	0.00	0.00	70.40	70.40	
L019	Skilled Labor	nd	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	128.96	
M02015	Structural Steel (Plates, SS400)	kg	83.84	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,591.53	0.00	1,324.07	567.46	1,891.53	Loss 8.0%
M02031	Steel Pipe	kg	55.30	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,321.67	0.00	923.17	398.50	1,321.67	Loss 8.0%
M02351	Bolt M16x50	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	7.83	0.00	234.90	0.00	164.43	70.47	234.90	
M02359	Bolt M16x150	each	3.00	0.0%	100.0%	0.0%	70.0%	30.0%	19.70	0.00	56.10	0.00	39.27	16.83	56.10	
R0901-025	Welding Machine 250A	dav	0.16	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	56.64	55.12	38.96	94.08	
R1001-100	Generator 51-100 kW	dav	0.16	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	200.57	229.33	255.10	175.30	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	60.0%		195.90	587.70	522.40	522.40	783.60	1,306.00	30.0%	
Total									520.54	4,329.97	808.87	3,295.56	2,373.76	5,659.32		
Components (%)									9.2%	75.3%	14.3%	58.1%	41.9%	100.0%		
Unit Rate									65.63	540.92	101.93	410.43	296.53	707.00		

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	nd	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	266.02	0.00	0.00	0.00	266.02	266.02	
L009	Welder	nd	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	235.00	0.00	0.00	0.00	235.00	235.00	
L010	Painter	nd	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	418.00	0.00	0.00	0.00	418.00	418.00	
L019	Skilled Labor	nd	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26	
M02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,585.43	0.00	3,909.80	1,675.63	5,585.43	Loss 3.0%
M02014	Structural Steel (Shapes, SS400)	kg	419.80	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,388.48	0.00	5,171.94	2,216.54	7,388.48	Loss 3.0%
M02015	Structural Steel (Plates, SS400)	kg	32.70	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	660.54	0.00	462.38	198.16	660.54	Loss 3.0%
M02011	Structural Steel (Round Bar, SS400)	kg	29.30	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	638.74	0.00	447.12	191.62	638.74	Loss 3.0%
M02061	Chain Link Wire Net	m2	85.49	0.0%	100.0%	0.0%	70.0%	30.0%	168.00	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32	Loss 3.0%
R0901-025	Welding Machine 250A	dav	0.47	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	109.99	166.57	161.91	114.45	276.36	
R1001-100	Generator 51-100 kW	dav	0.47	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	589.16	675.14	749.37	514.93	1,264.30	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	60.0%		1,439.80	4,297.79	3,820.25	3,820.25	5,730.38	9,550.64	30.0%	
Total									2,323.88	33,520.45	4,661.76	24,893.68	16,492.10	41,386.09		
Components (%)									1.3%	81.7%	11.3%	80.2%	39.3%	100.0%		
Unit Rate									61.89	715.44	98.67	526.92	349.08	876.00		

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

W0911 Digging Out Tree, Low Tree H≤1.5m

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	nd	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	169.80	0.00	0.00	0.00	169.80	169.80
L019	Skilled Labor	nd	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	967.20
L020	Unskilled Labor	nd	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	722.20	0.00	0.00	0.00	722.20	722.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									1,359.20	0.00	0.00	0.00	1,859.20	1,859.20	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									18.60	0.00	0.00	0.00	18.60	18.60	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	nd	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,813.50	0.00	0.00	0.00	1,813.50	1,813.50
L020	Unskilled Labor	nd	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,413.00	0.00	0.00	0.00	1,413.00	1,413.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									3,156.10	0.00	0.00	0.00	3,566.10	3,566.10	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									35.70	0.00	0.00	0.00	35.70	35.70	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	nd	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	962.20	962.20
L019	Skilled Labor	nd	8.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,425.50	0.00	0.00	0.00	3,425.50	3,425.50
L020	Unskilled Labor	nd	6.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,813.00	0.00	0.00	0.00	1,813.00	1,813.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									6,303.10	0.00	0.00	0.00	6,303.10	6,303.10	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									63.00	0.00	0.00	0.00	63.00	63.00	

W0921 Tree Haulage, Low Tree H≤1.5m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	5.75	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	346.21	494.95	1,723.34	1,256.39	1,308.11	2,564.50	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									346.21	494.95	1,723.34	1,256.39	1,308.11	2,564.50		
Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%		
Unit Rate									3.46	4.94	17.20	12.54	13.06	25.60		

T = (A*N*2L/V)/N = 0.06 hr/each
 N: Loading capacity = 50.00 each
 L: Haulage Distance = 4.70 km
 A: Loading Time = 0.05 hr/each
 V: Traveling Speed = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	10.84	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	652.68	933.09	3,248.88	2,368.57	2,466.07	4,834.54	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Total									652.68	933.09	3,248.88	2,368.57	2,466.07	4,834.54		
Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%		
Unit Rate									6.52	9.32	32.48	23.66	24.64	48.30		

T = (A*N*2L/V)/N = 0.11 hr/each
 N: Loading capacity = 45.00 each
 L: Haulage Distance = 4.70 km
 A: Loading Time = 0.10 hr/each
 V: Traveling Speed = 25.00 km/hr

W0923 Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	18.88	13.5%	19.3%	67.2%	49.0%	51.							

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	282.00	0.00	0.00	0.00	282.00	282.00
L019	Skilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,491.10	0.00	0.00	0.00	1,491.10	1,491.10
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									2,715.10	0.00	0.00	0.00	2,715.10	2,715.10
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate	each								27.20	0.00	0.00	0.00	27.20	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20
L019	Skilled Labor	md	15.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,086.30	0.00	0.00	0.00	6,086.30	6,086.30
L020	Unskilled Labor	md	9.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,014.40	0.00	0.00	0.00	3,014.40	3,014.40
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									11,313.90	0.00	0.00	0.00	11,313.90	11,313.90
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	
	Unit Rate	each								113.00	0.00	0.00	0.00	113.00	

W0951 Precast Curbstone for Planter Square, Furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.30	2.6%	80.1%	17.4%	56.7%	43.3%	1,620.00	95.00	2,983.30	641.67	2,112.97	1,613.03	3,726.00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.25	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	494.12	0.89	8.89	5.44	498.56	504.00	
W0236	Concrete Curing (plain concrete)	m3	2.25	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	14.12	1.74	4.05	3.18	16.73	19.91	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.22	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	13.27	23.75	95.65	67.36	65.30	132.66	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	210.36	140.24	175.30	175.30	350.51	8.0%
	Total									616.53	3,220.13	896.51	2,354.25	2,358.92	4,733.18	
	Components (%)									13.0%	68.0%	18.9%	50.0%	50.0%	100.0%	
	Unit Rate	m								6.18	32.18	9.96	23.63	23.67	47.50	

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

W0952 Precast Curbstone for Planter Square, Laying

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L007	Masonry	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	1,379.70	0.00	0.00	0.00	1,379.70	1,379.70	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%		0.00	105.76	26.44	66.10	66.10	132.20	4.0%
	Total									3,304.90	105.76	26.44	66.10	3,371.00	3,437.10	
	Components (%)									96.2%	3.1%	0.8%	1.9%	100.0%		
	Unit Rate	m								33.68	1.06	0.26	0.66	33.74	34.40	

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

W0956 Treading Prevention Board for Planter Square, Furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	6.12	2.6%	80.1%	17.4%	56.7%	43.3%	1,620.00	252.86	7,938.17	1,723.37	5,622.34	4,292.06	9,914.40	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	6.00	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	1,317.65	2.64	23.72	14.49	1,329.51	1,344.00	
W0236	Concrete Curing (plain concrete)	m3	6.00	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	37.66	4.63	10.81	8.49	44.51	53.10	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	480.00	15.2%	77.0%	7.3%	54.0%	46.0%	23.30	1,698.50	8,612.28	873.22	6,038.79	5,145.21	11,184.00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.90	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	54.27	97.14	391.29	275.57	267.13	542.70	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	1,105.83	737.22	921.83	921.53	1,843.06	8.0%
	Total									3,360.93	17,760.69	3,769.63	12,881.22	12,000.04	24,881.26	
	Components (%)									13.5%	71.4%	15.1%	51.8%	48.2%	100.0%	
	Unit Rate	m2								33.63	177.74	37.62	128.91	120.09	249.00	

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

W0957 Treading Prevention Board for Planter Square, Laying

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	482.80	0.00	0.00	0.00	482.80	482.80	
L007	Masonry	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	1,203.80	0.00	0.00	0.00	1,203.80	1,203.80	
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,350.20	0.00	0.00	0.00	1,350.20	1,350.20	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	147.33	63.14	105.24	105.24	210.48	7.0%
	Total									3,006.80	147.33	63.14	105.24	3,212.04	3,212.28	
	Components (%)									93.5%	4.6%	2.0%	3.3%	96.7%	100.0%	
	Unit Rate	m2								30.05	1.47	0.63	1.05	31.15	32.20	

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

W1001 Underground Cable Duct

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W1002	Excavation, Backhoe 0.35m3	m3	3.00	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	9.48	12.45	126.27	78.78	71.42	148.20	
W1011	Disposal of Surplus Soil (backhoe loaded)	m3	0.50	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	6.82	12.35	64.53	43.08	40.62	83.70	
W1033	Backfill C	m3	2.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	34.77	36.05	233.70	150.43	154.07	304.50	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	0.92	2.7%	78.5%	18.8%	56.4%	43.6%	1,510.00	38.18	1,090.27	260.75	784.18	605.02	1,389.20	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.90	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	197.65	0.40	3.56	2.17	199.43	201.60	
W0236	Concrete Curing (plain concrete)	m3	0.90	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	5.65	0.70	1.62	1.27	6.70	7.97	
N13052	Electric Conduit	m	10.00	0.0%	100.0%	0.0%	45.0%	55.0%	67.90	0.00	679.00	0.00	305.55	373.43	679.00	
N13051	Electric Cable	m	10.00	0.0%	100.0%	0.0%	58.0%	45.0%	82.30	0.00	823.00	0.00	342.85	280.35	623.00	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	126.30	0.00	0.00	0.00	126.30	126.30	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	18.10	18.10	18.10	18.10	36.20	1.0%
	Total									475.45	2,472.29	708.33	1,724.22	1,932.05	3,656.87	
	Components (%)									15.0%	67.6%	19.4%	47.2%	52.8%	100.0%	
	Unit Rate	m								47.59	247.48	70.93	172.80	193.40	366.00	

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

W1011 Electric Cable Laying

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
N13051	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	623.00	0.00	342.85	280.35	623.00
L002	Foreman	md	0.10	100.											

W1102 Traffic Signal Post Type A (Main Arms) H=6.0m, Furnished

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	352.49	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	8,424.51	0.00	5,891.16	2,527.35	8,424.51	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	1,169.29	0.00	182.20	348.09	1,169.29	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	0.0%	30.0%	21.50	0.00	185.52	0.00	129.89	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.20	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.41	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	33.81	54.59	263.79	178.89	173.30	352.19	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		98.50	2,216.27	2,610.27	2,708.77	2,216.27	4,925.04	30.0%
Total									1,506.61	14,536.51	5,298.74	12,668.38	8,673.47	21,341.65		
Components (%)									7.1%	68.1%	24.8%	59.4%	40.6%	100.0%		
Unit Rate			each						1,508.86	14,508.00	5,288.34	12,642.54	8,656.46	21,300.00		

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

W1103 Traffic Signal Posts Type B #114.3mm 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	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	1,337.68	0.00	936.38	401.30	1,337.68	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.08	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	6.80	10.65	51.47	34.91	31.81	68.72	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		43.45	977.70	1,151.52	1,194.97	977.70	2,172.88	30.0%
Total									1,146.85	4,985.53	3,282.53	5,053.65	3,261.28	9,414.93		
Components (%)									12.3%	59.0%	34.9%	53.7%	46.3%	100.0%		
Unit Rate			each						1,146.23	4,982.92	3,280.83	5,051.00	3,259.00	9,410.00		

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

W1104 Traffic Signal Posts Type C #114.3mm x 3.4m, Furnished

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	45.26	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	1,081.71	0.00	757.20	324.51	1,081.71	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.07	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	5.77	9.32	45.94	30.54	29.59	60.13	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.87	941.99	1,109.45	1,151.32	941.99	2,093.31	30.0%
Total									1,144.44	4,692.51	3,234.05	4,826.45	3,244.55	9,071.00		
Components (%)									12.6%	51.7%	35.7%	53.2%	46.3%	100.0%		
Unit Rate			each						1,144.31	4,692.00	3,233.69	4,825.92	3,244.08	9,070.00		

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

W1105 Pedestrian Signal Posts Type D #114.3mm x 3.0m, Furnished

Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	40.01	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	956.24	0.00	669.57	286.87	956.24	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.06	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	4.95	7.59	38.60	26.18	25.66	51.54	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.26	923.89	1,088.14	1,129.20	923.89	2,053.00	30.0%
Total									1,142.81	4,547.61	3,206.30	4,712.14	3,184.58	8,896.72		
Components (%)									12.8%	51.1%	36.0%	53.0%	47.0%	100.0%		
Unit Rate			each						1,143.23	4,549.29	3,207.48	4,713.88	3,186.12	8,900.00		

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	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	231.21	0.0%	100.0%	0.0%	0.0%	30.0%	23.90	0.00	5,525.92	0.00	3,088.14	1,637.78	5,525.92	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	31.08	0.0%	100.0%	0.0%	0.0%	30.0%	20.20	0.00	627.82	0.00	439.47	188.35	627.82	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	0.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	dav	1.20	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%								

#2001 Heavy Equipment Assembly & Disassembly

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L019	Skilled Labor	md	20.31	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	8,184.93	0.00	0.00	0.00	8,184.93	8,184.93
R0402-015	Truck Crane, Hydraulic 11-15t	hr	19.47	8.4%	8.3%	83.3%	30.7%	49.3%	879.00	1,437.59	1,420.47	14,256.07	3,668.86	8,445.27	17,114.13
R0402-020	Truck Crane, Hydraulic 16-20t	hr	18.61	6.9%	7.7%	85.4%	31.2%	48.5%	1,070.00	1,373.98	1,533.28	17,005.45	10,245.56	9,667.14	19,912.70
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.00	0.0%	5.8%	6.8%	87.7%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00
R0402-030	Truck Crane, Hydraulic 26-30t	hr	0.00	0.0%	5.0%	7.3%	87.7%	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	0.0%	4.4%	6.5%	89.1%	52.7%	47.3%	1,870.00	0.00	0.00	0.00	0.00	0.00
	Miscellaneous	LS	1.00	0.0%	30.0%	50.0%	55.0%	45.0%	0.00	0.00	904.24	904.24	904.66	813.91	1,808.77
	Total									10,995.49	3,857.99	32,163.73	19,908.08	27,111.15	47,020.23
	Components (%)									23.4%	8.2%	68.4%	42.3%	57.7%	100.0%
	Unit Rate	LS								10,991.76	3,856.33	32,161.91	19,900.51	27,099.49	47,000.00

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

Specification	No.	Wk (t)	Labor (day)	Required Days of Truck Crane for Assembly & Disassembly					Wz (t)	Wb (t)
				11-15t	16-20t	21-25t	26-30t	31-35t		
Bulldozer Labor = 0.0797Wk + 0.01 Crane operation days = 0.0322Wk + 0.43 Remaining Part Weight Wz = 0.4295Wk + 11.15	15t 21t	0 3	14.6 21.9	0 5.27	0 3.41	0 0	0 0	0 0	14.60 20.56	0.00 1.34
Crawler Crane Labor = 0.2063Wk + 0.05 Crane operation days = 0.0218Wk + 0.84 Remaining Part Weight Wz = 0.1319Wk + 17.10	22.5t 25-27t 35-37t 40t 50t 60t	0 0 2 0 0 0	26.6 27.8 36.2 41.1 49.8 55.6	0 0 15.04 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	20.71 20.93 22.09 22.77 23.97 26.16	5.83 6.87 14.11 18.33 23.93 29.45
All Casing Excavator Labor = 0.1183Wk + 2.32 Crane operation days = 0.0376Wk + 0.86 Remaining Part Weight Wz = 0.1589Wk + 18.55	1200max 1500max 2000max	0 0 0	24.0 39.9 49.0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	22.36 24.89 28.34	1.54 15.01 22.66
Total		5	20.31	3.41	3.26	0.00	0.00	0.00		
Operation hours per day			5.71	5.71	5.71	5.71	5.71	5.71		

Remaining Part Weight Wb = Wk - Wz

#2002 Transportation of Disassembled Equipment

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0604-020	Trailer 20t	hr	0.00	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	0.00	0.00	0.00	0.00	0.00	0.00
R0604-045	Trailer 45t	hr	42.50	2.3%	8.2%	89.5%	53.9%	46.1%	2,700.00	2,639.25	9,409.50	102,701.25	61,879.65	52,870.35	114,750.00
R0602-009	Cargo truck 9.0-10.0t	hr	34.00	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	2,303.78	4,526.93	21,875.29	14,855.01	14,370.99	29,206.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									5,443.03	13,936.43	124,576.54	76,714.66	67,241.34	143,956.00
	Components (%)									3.8%	9.7%	86.3%	46.7%	46.7%	100.0%
	Unit Rate	LS								3,444.69	13,940.69	124,614.62	76,738.10	67,261.90	144,000.00

	No.	Wz (t)	Wb (t)	n-Wb	Trips of Trailer	Cargo Truck	Travel hour/trip = a + 2*L/V
Bulldozer	15t	0	14.60	0.00	0	45t	8.50 hr
Crawler Crane	22.5t	3	20.56	1.34	4	9.0-10.0t	a: Loading Time = 0.50 hr L: Travel Distance = 100.00 km V: Travel Speed = 25.00 km/hr
All Casing Excavator	1200max	0	22.36	1.64	0		
	1500max	0	24.89	15.01	0		
	2000max	0	26.34	22.66	0		
Total Trips					32.24	5	4 (= Σ n-Wb/9.5/0.85)

#2003 Other Equipment & Material Haulage

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0604-020	Trailer 20t	hr	8.50	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	539.41	1,518.37	12,136.73	7,566.82	6,628.15	14,196.00
R0602-009	Cargo truck 9.0-10.0t	hr	170.00	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	14,018.68	22,834.65	109,376.47	74,175.05	71,854.95	146,030.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	801.13	801.13	801.13	881.24	721.01	1,602.25
	Total									14,559.29	24,954.64	122,314.32	82,623.10	79,204.15	161,827.25
	Components (%)									9.0%	15.4%	75.6%	51.1%	48.9%	100.0%
	Unit Rate	LS								14,573.83	24,981.23	122,444.89	82,711.30	79,288.70	162,000.00

Number of Trips
Trailer 20t = 1 trip
Cargo truck 9.0-10.0t = 20 trip
Travel hour/trip = a + 2*L/V = 8.50 hr
a: Loading Time = 0.50 hr
L: Travel Distance = 100.00 km
V: Travel Speed = 25.00 km/hr

#2004 Establishment of Temporary Site Office & Yard

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
	Temporary Site Office/Yard	m2	2,500.00	10.0%	50.0%	40.0%	45.0%	55.0%	220.00	55,000.00	275,000.00	220,000.00	247,500.00	302,500.00	550,000.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									55,000.00	275,000.00	220,000.00	247,500.00	302,500.00	550,000.00
	Components (%)									10.0%	50.0%	40.0%	45.0%	55.0%	100.0%
	Unit Rate	LS								55,000.00	275,000.00	220,000.00	247,500.00	302,500.00	550,000.00

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
W0101	Excavation, Bulldozer 2t	m3	10.00	1.5%	8.2%	90.3%	54.4%	45.8%	25.30	3.80	20.75	226.46	137.64	115.36	253.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									3.80	20.75	226.46	137.64	115.36	253.00
	Components (%)									1.5%	8.2%	90.3%	54.4%	45.8%	100.0%
	Unit Rate	m2								0.04	0.21	2.28	1.38	1.15	2.53

Excavation depth = 0.100

#3002 150mm Thick Concrete Hollow Block Wall

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L007	Masonry Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	185.20	0.00	0.00	0.00	185.20	
L020	Concrete Hollow Block (load bearing) 4"x8"x16" (100x200x400mm)	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	
M12012	Reinforcement Grade 40, cutting, bending & assembly	each	128.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,536.00	0.00	384.00	1,152.00	1,536.00
W0251	Mortar (1:3)	m3	25.30	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	89.52	453.94	46.03	318.29	271.20	589.49
W0221	Miscellaneous	LS	1.00	0.0%	0.0%	50.0%	55.0%	45.0%	1,830.00	14.18	786.02	41.60	488.51	353.29	841.80
	Total									414.51	2,792.35	164.02	1,208.83	2,102.04	3,910.87
	Components (%)									12.8%	84.3%	3.1%	36.5%	63.5%	100.0%
	Unit Rate	m2								41.44	279.16	10.40	120.65	210.15	391.00

#3002a 100mm Thick Concrete Hollow Block Wall

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L007	Masonry Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	185.20	0.00	0.00	0.00	185.20	
L020	Concrete Hollow Block (load bearing) 4"x8"x16" (100x200x400mm)	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	
M12011	Reinforcement Grade 40, cutting, bending & assembly	each	128.00	0.0%	100.0%	0.0%	25.0%	75.0%	10.00	0.00	1,280.00	0.00	320.00	960.00	1,280.00
W0251	Mortar (1:3)	m3	25.30	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	89.52	453.94	46.03	318.29	271.20	589.49
W0221	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%	1,830.00	14.18	786.02	41.60	488.51	353.29	841.80
	Total									414.51	2,532.04	105.76	1,143.42	1,908.89	3,052.31
	Components (%)									13.6%	83.0%	3.5%	37.5%	62.5%	100.0%
	Unit Rate	m2								41.42	253.01	10.57	114.26	190.74	305.00

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

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M02014	Structural Steel (Shaees. SS400)	kg	420.00	0.0%	100.0%	0.0%	0.0%	100.0%	17.60	0.00	7,392.00	0.00	0.00	5,174.40	7,392.00	Loss 5.0%
M02015	Structural Steel (Plates. SS400)	kg	630.00	0.0%	100.0%	0.0%	0.0%	100.0%	20.20	0.00	12,726.00	0.00	0.00	8,908.20	12,726.00	Loss 5.0%
M02071	High Tension Bolt W/6	each	8.00	0.0%	100.0%	0.0%	0.0%	100.0%	18.50	0.00	148.00	0.00	0.00	153.60	148.00	
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.46	243.52	588.00	
R1001-100	Generator 51-100 kW	dav	1.00	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,253.54	1,436.46	1,594.40	1,095.60	2,690.00	
R0402-030	Truck Crane. Hydraulic 26-30t	hr	2.88	5.0%	7.3%	87.7%	52.2%	47.8%	1,470.00	210.21	306.91	3,687.08	2,195.28	2,908.92	4,204.20	
R0604-020	Trailer 20t	hr	0.43	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	27.29	76.64	615.98	382.79	335.31	718.10	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	55.0%	45.0%	0.00	909.74	4,093.85	4,093.85	5,003.59	4,093.85	9,097.44	30.0%
	Total									3,005.74	26,231.16	10,185.34	23,706.74	15,715.50	39,422.24	
	Components (%)									7.6%	66.5%	25.3%	60.1%	39.9%	100.0%	
	Unit Rate									3,004.95	26,218.36	10,179.60	23,693.37	15,706.63	39,409.00	

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

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

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,465.40	4,977.60	12,444.00	Loss 2.0%
R0402-025	Truck Crane. Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,320.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
R0604-020	Trailer 20t	hr	0.09	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	5.08	14.30	114.23	71.22	62.38	133.60	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	156.81	172.49	141.13	313.62	156.81	2.0%
	Total									1,311.18	12,744.43	1,939.00	8,698.36	7,996.26	15,994.62	
	Components (%)									8.2%	79.7%	12.1%	54.4%	45.6%	100.0%	
	Unit Rate									13.12	127.49	19.40	87.01	72.99	160.00	

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

#3005 Prepainted Steel Wall Panels on Steel Frames with Insulation

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,465.40	4,977.60	12,444.00	Loss 2.0%
M12111	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00	Loss 2.0%
M02014	Structural Steel (Shaees. SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00	Loss 2.0%
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	175.99	172.24	121.76	294.00	
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00	
R0402-025	Truck Crane. Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,320.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	311.07	311.07	342.18	279.96	622.14	1.0%
	Total									1,556.10	58,406.18	2,874.26	39,035.18	23,801.37	62,836.54	
	Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%	
	Unit Rate									15.55	589.72	28.73	390.12	237.88	628.00	

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

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

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12111	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00	Loss 2.0%
M12112	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00	Loss 2.0%
M02014	Structural Steel (Shaees. SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00	Loss 2.0%
R0901-025	Welding Machine 250A	dav	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	175.99	172.24	121.76	294.00	
R1001-100	Generator 51-100 kW	dav	0.50	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00	
R0402-025	Truck Crane. Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,320.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	309.03	309.03	339.94	278.13	618.06	1.0%
	Total									1,556.10	57,996.14	2,872.22	38,788.13	23,636.33	62,424.46	
	Components (%)									2.5%	92.9%	4.6%	62.1%	37.9%	100.0%	
	Unit Rate									15.55	579.73	28.71	387.73	236.27	624.00	

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)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				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%	463.00	231.50	0.00	0.00	0.00	231.50	231.50	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
W0221	Mortar (1:3)	m3	3.06	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	94.33	5,228.72	276.75	3,249.63	2,350.17	5,599.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%												

W3011 Plain Cement Mortar Wall Finish											Unit: 100.00 m2				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L007	Masonry	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	231.50	0.00	0.00	0.00	231.50	231.50
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20
W0221	Mortar (1:3)	m3	3.06	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	94.33	5,228.72	276.75	3,249.83	2,350.17	5,599.80
	Miscellaneous	LS	1.00	0.0%	0.0%	50.0%	50.0%	45.0%		0.00	182.48	182.48	200.72	164.23	364.95
Total										577.03	5,411.19	469.23	3,450.55	2,997.19	6,447.45
Components (%)										9.9%	83.9%	4.1%	53.3%	46.5%	100.0%
Unit Rate										5.77	54.13	4.69	34.52	29.98	64.50

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

W3012 Steel Fixed Louver											Unit: 1.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	400.00	0.00	0.00	0.00	400.00	400.00
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00
M02015	Structural Steel (Plates, SS400)	kg	21.42	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	432.68	0.00	302.88	129.80	432.68
M0901-025	Welding Machine 25DA	dav	0.80	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	187.22	283.18	275.39	194.81	470.40
R1001-100	Generator 51-100 kW	dav	0.80	0.0%	46.8%	53.4%	59.3%	40.7%	2,690.00	0.00	1,002.83	1,149.17	1,276.52	876.48	2,152.00
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.37	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	101.15	112.87	1,261.88	754.24	711.66	1,465.90
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	45.0%		0.00	821.52	821.52	903.67	739.37	1,643.02	
Total										1,056.92	2,557.12	3,506.74	3,511.89	3,607.92	7,119.81
Components (%)										14.8%	36.3%	49.2%	49.3%	50.7%	100.0%
Unit Rate										1,056.92	2,557.12	3,506.74	3,511.89	3,607.92	7,120.00

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

W3013 Doors & Windows for Engineer's Field Office and Living Quarters											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,999.80	0.00	0.00	0.00	2,999.80	2,999.80
L019	Skilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,407.70	0.00	0.00	0.00	6,407.70	6,407.70
L020	Unskilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,992.80	0.00	0.00	0.00	4,992.80	4,992.80
M12251	Steel Door with Steel Panels 900x2100mm	each	7.00	0.0%	100.0%	0.0%	45.0%	55.0%	5,530.00	0.00	38,710.00	0.00	17,419.50	21,290.50	38,710.00
M12252	Flush Type Hollow Core Door with 6mm thick ordinary plywood 500x2100mm	each	8.00	0.0%	100.0%	0.0%	20.0%	80.0%	2,500.00	0.00	20,000.00	0.00	4,000.00	16,000.00	20,000.00
M12253	Flush Type Hollow Core Door with 6mm thick marine plywood 600x2100mm	each	6.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,870.00	0.00	11,220.00	0.00	2,244.00	8,976.00	11,220.00
M12261	Jalousie Window with Steel Blades 2100x1500mm	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,750.00	0.00	33,750.00	0.00	15,187.50	18,562.50	33,750.00
M12262	Jalousie Window with Steel Blades 3900x1500mm	each	16.00	0.0%	100.0%	0.0%	45.0%	55.0%	12,500.00	0.00	200,000.00	0.00	90,000.00	110,000.00	200,000.00
M12263	Jalousie Window with Steel Blades 1400x900	each	2.00	0.0%	100.0%	0.0%	45.0%	55.0%	2,640.00	0.00	5,280.00	0.00	2,376.00	2,904.00	5,280.00
M12264	Jalousie Window with Steel Blades 820x250	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	458.00	0.00	2,290.00	0.00	1,030.50	1,259.50	2,290.00
W3012	Steel Fixed Louver	each	4.00	14.8%	35.9%	49.2%	49.3%	50.7%	7,120.00	4,227.90	10,228.76	14,023.34	14,047.93	14,432.97	28,480.00
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	45.0%		0.00	354.13	354.13	389.34	318.72	708.20	
Total										18,628.00	321,838.88	14,317.47	146,894.37	208,143.39	354,638.36
Components (%)										5.2%	93.3%	4.1%	41.3%	56.7%	100.0%
Unit Rate										18,636.48	321,979.49	14,384.02	146,761.79	208,238.21	355,000.00

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

W3014 Lighting and Powers											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L012	Electrician	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	3,368.00	0.00	0.00	0.00	3,368.00	3,368.00
L019	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,612.00	0.00	0.00	0.00	1,612.00	1,612.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00
M13131	Colling 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 Heatless Type, Medium Base Porcelain Recessacle	each	22.00	0.0%	100.0%	0.0%	60.0%	40.0%	172.00	0.00	3,784.00	0.00	2,270.40	1,513.60	3,784.00
M13151	One-way Wall Switch	each	8.00	0.0%	100.0%	0.0%	55.0%	45.0%	30.50	0.00	244.00	0.00	134.20	109.80	244.00
M13152	2 One-way Wall Switches on one Gang Plate	each	11.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	885.50	0.00	487.03	398.48	885.50
M13153	3 One-way Wall Switches on one Gang Plate	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	103.00	0.00	309.00	0.00	169.95	139.05	309.00
M13154	Duplex Convenience Outlet, Grounding Type	each	36.00	0.0%	100.0%	0.0%	55.0%	45.0%	80.50	0.00	2,898.00	0.00	1,593.90	1,304.10	2,898.00
M13155	Heavy Duty Convenience Outlets, Single Grounding Type	each	4.00	0.0%	100.0%	0.0%	55.0%	45.0%	129.00	0.00	516.00	0.00	283.80	232.20	516.00
M13156	Air Conditioning Outlet Grounding Type with Automatic Circuit Breaker in One Enclosure	each	3.00	0.0%	100.0%	0.0%	55.0%	45.0%	694.00	0.00	2,082.00	0.00	1,145.10	936.90	2,082.00
M13157	Enclosed Automatic Circuit Breaker	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	8,190.00	0.00	8,190.00	0.00	5,323.50	2,866.50	8,190.00
M13158	Distribution Panel Board	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	12,100.00	0.00	24,200.00	0.00	14,520.00	9,680.00	24,200.00
M13159	Pull Box or Junction Box	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,040.00	0.00	2,080.00	0.00	1,248.00	832.00	2,080.00
M13160	Electric Service Meter	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,610.00	0.00	3,610.00	0.00	2,346.50	1,263.50	3,610.00
M13161	Concealed or Embedded Conduit Run	m	245.00	0.0%	100.0%	0.0%	50.0%	50.0%	7.52	0.00	1,842.40	0.00	921.20	921.20	1,842.40
M13162	Underground or Underfloor Conduit Run	m	107.00	0.0%	100.0%	0.0%	50.0%	50.0%	34.00	0.00	3,638.00	0.00	1,819.00	1,819.00	3,638.00
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	909.00	0.00	7,272.00	0.00	4,363.20	2,908.80	7,272.00
M13164	Galvanized Steel Lighting Post H=3.5m	each	8.00	0.0%	100.0%	0.0%	60.0%	40.0%	4,670.00	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%	50.0%	50.0%	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%		135.77	643.09	2,036.59	78,435.50	60,032.85	138,468.36	
Total										6,937.77	129,513.99	2,036.59	78,435.50	60,032.85	138,468.36
Components (%)										5.0%	93.3%	1.5%	56.8%	43.4%	100.0%
Unit Rate										6,913.31	129,067.28	2,029.41	78,158.91	59,841.99	138,000.00

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

W3015 Sewer Water Line											Unit: 1.00 L.S.				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,224.00	0.00	0.00	0.00	3,224.00	3,224.00
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00
M08310	PVC Pipe, ø100	m	120.00	0.0%	100.0%	0.0%	50.0%	50.0%	200.00	0.00	24,000.00	0.00	12,000.00	12,000.00	24,000.00
M08701															

#3016 Septic Tank

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0105	Excavation, Backhoe 0.6m3	m3	24.37	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	44.22	84.41	876.23	531.38	473.53	1,804.91	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	12.32	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	93.32	169.03	883.41	589.77	555.99	1,145.76	
W0132	Backfill B	m3	12.25	7.7%	10.0%	82.3%	51.5%	48.7%	111.00	104.05	136.17	1,119.54	697.15	882.60	1,359.75	
W0161	Gravel Foundation Fill	m3	0.82	24.0%	13.4%	62.7%	39.7%	60.3%	413.00	81.21	45.27	212.18	134.29	204.37	338.66	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.67	2.8%	80.1%	17.4%	55.7%	43.3%	1,620.00	69.00	2,166.13	470.27	1,534.20	1,171.30	2,765.40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.64	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	65.48	0.83	365.18	190.34	231.14	421.48	
W0237	Concrete Curing (reinforced concrete)	m3	1.64	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	5.15	0.53	1.23	0.96	5.94	6.90	
W0241	Formwork (reinforced concrete H4m)	m2	6.93	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	920.31	619.84	12.18	45.30	1,507.02	1,552.32	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	182.10	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	644.37	3,257.28	331.28	2,290.97	1,951.96	4,242.93	
W3002	150mm Thick Concrete Hollow Block Wall	m2	19.62	12.5%	84.3%	3.1%	36.3%	63.5%	331.00	815.05	5,477.14	204.03	2,371.10	4,123.12	6,494.22	
W3011	Plain Cement Mortar Wall Finish Miscellaneous	LS	21.78	8.9%	83.9%	7.1%	53.5%	46.5%	64.50	125.73	1,179.02	100.06	751.76	653.03	1,404.51	0.0%
	Total		1.00						2,965.87	13,145.55	4,565.51	9,137.34	11,529.56	20,627.14		
	Components (%)								14.3%	63.6%	22.1%	44.3%	35.8%	100.0%		
	Unit Rate	each							2,965.87	13,160.19	4,570.66	9,147.34	11,552.66	20,700.00		

#3017 Cyclone Fence and Gate for the Engineer's Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0102	Excavation, Backhoe 0.35m3	m3	15.58	6.4%	8.4%	85.2%	51.5%	48.7%	49.40	49.26	64.65	655.74	398.73	370.92	769.65	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1.12	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	8.48	15.37	80.31	53.62	50.54	104.15	
W0132	Backfill B	m3	14.46	7.7%	10.0%	82.3%	51.5%	48.7%	111.00	122.82	150.73	1,321.51	822.92	782.14	1,605.06	Loss 2.0%
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.14	2.8%	80.1%	17.4%	56.7%	43.3%	1,620.00	47.10	1,478.68	321.02	1,047.30	799.50	1,846.80	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.12	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	44.72	0.56	242.58	129.99	157.85	287.84	
W0237	Concrete Curing (reinforced concrete)	m3	1.12	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.52	0.36	0.84	0.66	4.06	4.72	
W0241	Formwork (reinforced concrete H4m)	m2	13.60	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	1,808.09	1,218.42	23.89	88.90	2,957.50	3,045.40	
W02705	Steel Gas Pipe, 550	m	10.80	0.0%	100.0%	0.0%	50.0%	40.0%	294.00	0.00	3,175.20	0.00	1,905.12	1,270.08	3,175.20	
W02706	Steel Gas Pipe, 550	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	1,575.76	3,949.40	
W02801	Reinforcing Bars, Grade 40	kg	19.50	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	312.00	0.00	202.80	109.20	312.00	
W12101	Chain Link Fence Fabric	m	40.00	0.0%	100.0%	0.0%	50.0%	50.0%	1,460.00	0.00	58,400.00	0.00	29,200.00	29,200.00	58,400.00	
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	45.28	0.00	0.00	0.00	45.28	45.28	
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	128.96	
L020	Unskilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	100.48	0.00	0.00	0.00	100.48	100.48	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								2,356.21	68,773.37	2,645.87	36,219.56	37,556.29	73,755.85		
	Components (%)								3.2%	91.2%	3.6%	49.1%	50.9%	100.0%		
	Unit Rate	m							58.78	1,715.23	65.99	903.33	926.67	1,846.00		

#3018 Barbed Wire Fence for the Engineer's Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	147.16	0.00	0.00	0.00	147.16	147.16	
L019	Skilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	419.12	0.00	0.00	0.00	419.12	419.12	
L020	Unskilled Labor	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	326.56	0.00	0.00	0.00	326.56	326.56	
M04001	Lumber	m3	0.84	0.0%	100.0%	0.0%	10.0%	90.0%	14,800.00	0.00	12,432.00	0.00	1,243.20	11,188.80	12,432.00	Loss 2.0%
M02062	Barbed Wire	m	1,060.80	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	2,652.00	0.00	828.20	1,723.80	2,652.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	60.0%	50.0%	50.0%	0.00	0.00	191.72	287.58	239.65	239.65	479.31	3.0%
	Total								892.84	15,275.72	287.58	2,411.05	14,045.09	16,456.15		
	Components (%)								5.4%	92.8%	1.7%	14.7%	35.5%	100.0%		
	Unit Rate	m							6.89	117.89	2.22	18.61	108.39	127.00		

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

#3101 Miscellaneous for Office & Living Quarter Maintenance

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Flashlight	each	1.00	0.0%	0.0%	100.0%	60.0%	40.0%	235.00	0.00	0.00	235.00	141.00	94.00	235.00	
	Broom	each	4.00	0.0%	0.0%	100.0%	10.0%	90.0%	142.00	0.00	0.00	568.00	56.80	511.20	568.00	
	Mon Rod with rag	each	4.00	0.0%	0.0%	100.0%	30.0%	70.0%	360.00	0.00	0.00	1,440.00	432.00	1,008.00	1,440.00	
	Bucket	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	109.00	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	450.00	115.00	345.00	450.00	
	Iron	each	1.00	0.0%	0.0%	100.0%	70.0%	30.0%	1,100.00	0.00	0.00	1,100.00	770.00	330.00	1,100.00	
	Iron Table	each	1.00	0.0%	0.0%	100.0%	30.0%	70.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Power Plumber	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	
	Woo Rag	each	128.00	0.0%	100.0%	0.0%	15.0%	85.0%	65.00	0.00	8,320.00	0.00	1,248.00	7,072.00	8,320.00	4.0/month
	Laundry Detergent, 1.6kg	bottle	54.40	0.0%	100.0%	0.0%	25.0%	75.0%	148.00	0.00	8,051.20	0.00	2,012.80	6,038.40	8,051.20	1.7/month
	Bathroom Cleaner, 500ml	bottle	19.20	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	1,056.00	0.00	316.80	739.20	1,056.00	0.6/month
	Power Cleanser, 350g	bottle	28.80	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	662.40	0.00	198.72	463.68	662.40	0.9/month
	Electric Bulb, 50-100W	each	128.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	2,944.00	0.00	1,618.80	1,325.20	2,944.00	4.0/month
	Fluorescent Tube, 20W	each	96.00	0.0%	100.0%	0.0%	60.0%	40.0%	64.00	0.00	5,144.00	0.00	3,686.40	2,457.60	5,144.00	3.0/month
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	476.11	476.11	476.11	476.11	952.22	3.0%
	Total								0.00	27,653.71	5,038.11	11,262.33	21,429.99	32,692.82		
	Components (%)								0.0%	84.5%	15.4%	34.3%	65.5%	100.0%		
	Unit Rate	month							0.00	862.78	157.22	351.39	668.61	1,020.00		

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

#3102 Furniture and Fixtures for Field Office

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	1,87		

#3103 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%	15.0%	25.0%	6,600.00	0.00	6,600.00	0.00	4,950.00	1,650.00	6,600.00	
	Scientific Calculator	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	940.00	0.00	9,400.00	0.00	5,390.00	2,820.00	9,400.00	
	Desk Time 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	
	Orating Instrument	set	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	7,100.00	0.00	7,100.00	0.00	5,390.00	2,310.00	7,700.00	
	Photo Copier	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	26,000.00	0.00	20,300.00	0.00	15,000.00	5,300.00	20,300.00	
	Desk Top PC	each	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	46,000.00	0.00	138,000.00	0.00	103,500.00	34,500.00	138,000.00	
	Color Laser Printer	set	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Magnetic Whiteboard	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,200.00	0.00	3,200.00	0.00	2,050.00	1,120.00	3,200.00	
	Camera	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,800.00	0.00	5,800.00	0.00	4,350.00	1,450.00	5,800.00	
	Electric Stand Fan	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	2,400.00	0.00	1,440.00	960.00	2,400.00	
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,100.00	0.00	4,200.00	0.00	2,100.00	2,100.00	4,200.00	
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	840.00	560.00	1,400.00	
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00	
	Bedroom Mirror	each	2.00	0.0%	100.0%	0.0%	30.0%	70.0%	490.00	0.00	980.00	0.00	394.00	686.00	980.00	
	Waste Paper Bin	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	200.00	0.00	135.00	765.00	965.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		333.75	111.25	1,780.00	1,112.50	1,112.50	2,225.00	1.0%
	Total									333.75	222,611.25	1,780.00	164,115.50	60,609.50	224,725.00	
	Components (%)									0.1%	99.1%	0.8%	73.0%	27.0%	100.0%	
	Unit Rate									334.16	222,883.66	1,782.18	164,316.31	60,683.67	225,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

#3105 Furniture and Fixtures for Living Quarter

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	1,560.00	6,240.00	7,800.00	
	Double Deck Bed	each	5.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,300.00	0.00	22,500.00	0.00	4,500.00	18,000.00	22,500.00	
	Night Table	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	35,100.00	0.00	5,265.00	29,835.00	35,100.00	
	Chairs	each	13.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,650.00	0.00	21,450.00	0.00	4,290.00	17,160.00	21,450.00	
	Wardrobe Cabinet	each	8.00	0.0%	100.0%	0.0%	15.0%	85.0%	3,600.00	0.00	28,800.00	0.00	4,320.00	24,480.00	28,800.00	
	Dining Table Set with 6 chairs	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	10,600.00	0.00	21,200.00	0.00	3,180.00	18,020.00	21,200.00	
	Lounge Sofa Set (3+1+Center Table)	set	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	12,400.00	0.00	12,400.00	0.00	1,860.00	10,540.00	12,400.00	
	Cumboard	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	5,400.00	0.00	5,400.00	0.00	810.00	4,590.00	5,400.00	
	Air Conditioning Unit, 1.0 HP Window Type	Unit	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,300.00	0.00	42,900.00	0.00	32,175.00	10,725.00	42,900.00	
	Venetian Blinds	m2	57.68	0.0%	100.0%	0.0%	60.0%	40.0%	10,139.27	0.00	16,898.78	0.00	10,139.27	6,759.51	16,898.78	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%	293.00	321.67	107.22	1,715.59	1,072.24	1,072.24	2,144.48	1.0%
	Total									321.67	214,556.00	1,715.59	89,171.51	147,421.76	216,593.27	
	Components (%)									0.1%	99.1%	0.8%	31.9%	68.1%	100.0%	
	Unit Rate									322.28	214,956.91	1,718.81	89,301.41	147,698.59	217,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

#3106 Equipment and Appliances for Living Quarter

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%	1,060.00	0.00	13,780.00	0.00	2,057.00	11,723.00	13,780.00	
	Pillow	each	23.00	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	32.00	0.0%	100.0%	0.0%	10.0%	90.0%	250.00	0.00	3,200.00	0.00	3,200.00	11,700.00	13,000.00	
	Pillow Cover	each	26.00	0.0%	100.0%	0.0%	10.0%	90.0%	150.00	0.00	3,380.00	0.00	338.00	3,042.00	3,380.00	
	Refrigerator, 10 cuft	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,900.00	0.00	14,900.00	0.00	11,175.00	3,725.00	14,900.00	
	Gas Stove, with 2 burners	Unit	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,000.00	0.00	2,000.00	0.00	1,300.00	700.00	2,000.00	
	Desk Lamp	each	13.00	0.0%	100.0%	0.0%	65.0%	35.0%	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%	75.0%	25.0%	3,300.00	0.00	3,300.00	0.00	2,475.00	825.00	3,300.00	
	Bedroom Mirror	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	490.00	0.00	980.00	0.00	245.00	735.00	980.00	
	Waste Paper Bin	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	1,000.00	0.00	150.00	850.00	1,000.00	
	Shower Curtain	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	300.00	0.00	900.00	0.00	180.00	720.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		130.11	43.37	693.92	433.70	433.70	887.40	1.0%
	Total									130.11	86,783.37	693.92	34,895.70	52,711.70	87,607.40	
	Components (%)									0.1%	99.1%	0.8%	39.8%	60.2%	100.0%	
	Unit Rate									130.10	86,778.04	693.88	34,892.75	52,707.25	87,600.00	

Miscellaneous covers the cost for delivery, installation, etc.

#3111 Office & Living Quarter 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%	88.50	0.00	88.50	0.00	22.13	66.38	88.50	
	Pencil Sharpener, manually operated	each	1.00	0.0%	100.0%	0.0%	50.0%	50.0%	400.00	0.00	400.00	0.00	200.00			

W3112 Office & Living Quarter Consumables

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
	Stable, 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
	Stable, No 10	box	3.00	0.0%	100.0%	0.0%	25.0%	75.0%	4.50	0.00	13.50	0.00	3.39	10.13	13.50
	Celo 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, 10mm 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	20.00	0.00	7.50	12.50	20.00
	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%	12.00	0.00	51.20	0.00	10.24	40.96	51.20
	Marker Pen and/or Sien Pen	each	4.00	0.0%	100.0%	0.0%	25.0%	75.0%	28.00	0.00	104.00	0.00	26.00	78.00	104.00
	Eraser, Rubber and/or sand	each	11.00	0.0%	100.0%	0.0%	20.0%	80.0%	27.00	0.00	297.00	0.00	59.40	237.60	297.00
	Correction Fluid, 20ml	bottle	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	39.00	0.00	155.00	0.00	31.20	124.80	155.00
	Document File, A4 size x 5cm	each	11.00	0.0%	100.0%	0.0%	25.0%	75.0%	300.00	0.00	3,300.00	0.00	825.00	2,475.00	3,300.00
	Document Folder, A4 size	each	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	11.00	0.00	242.00	0.00	24.20	217.80	242.00
	Document Fastener, Steel or plastic, 5 pcs	pack	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	9.50	0.00	38.00	0.00	3.80	34.20	38.00
	Notebook, A6 size, 80 sheets	book	10.00	0.0%	100.0%	0.0%	10.0%	90.0%	26.50	0.00	265.00	0.00	26.50	238.50	265.00
	Notebook, A4 size, 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	40.00	0.00	440.00	0.00	44.00	396.00	440.00
	Notebook, A4 size, 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	36.00	0.00	396.00	0.00	39.60	356.40	396.00
	Cover Paper, A4 size, 500 sheets	ream	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	138.00	0.00	552.00	0.00	55.20	496.80	552.00
	Cross Section Paper, A4 size, 50 sheets	book	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	38.00	0.00	38.00	0.00	5.70	32.30	38.00
	Tracing Paper, A1 size x 50m	roll	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	330.00	0.00	330.00	0.00	49.50	280.50	330.00
	Carbon Paper, A4 size, 50 sheets	box	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	34.00	0.00	34.00	0.00	5.10	28.90	34.00
	Transmitter Ribbon, Black/Red	each	1.00	0.0%	100.0%	0.0%	40.0%	60.0%	17.50	0.00	17.50	0.00	9.40	8.10	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	156.10	429.00
	Envelope, Letter, short x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	13.00	0.00	286.00	0.00	28.60	257.40	286.00
	Envelope, A4 size	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	35.00	0.00	385.00	0.00	38.50	346.50	385.00
	Dry Battery, AA x 4 pcs	pack	6.00	0.0%	100.0%	0.0%	30.0%	70.0%	32.00	0.00	192.00	0.00	51.60	134.40	192.00
	Paper 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
	Binder Clip, 12 x 3/4"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	11.00	0.00	22.00	0.00	4.40	17.60	22.00
	Binder Clip, 12 x 1"	box	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	17.50	0.00	35.00	0.00	10.50	24.50	35.00
	Binder Clip, 12 x 1 1/2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	23.50	0.00	47.00	0.00	9.40	37.60	47.00
	Binder Clip, 12 x 2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	50.00	0.00	100.00	0.00	20.00	80.00	100.00
	Glue, Tube 30g	each	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	2.50	0.00	5.00	0.00	0.50	4.50	5.00
	Floppy Disk, 1.44MB 2HD 3.5" x 10 pcs	CD	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	54.00	0.00	28.00	0.00	7.00	21.00	28.00
	CD Rewritable, 640MB	each	3.00	0.0%	100.0%	0.0%	40.0%	60.0%	41.00	0.00	123.00	0.00	49.20	73.80	123.00
	Printer Cartridge	each	0.33	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	pack	5.00	0.0%	100.0%	0.0%	10.0%	90.0%	90.00	0.00	450.00	0.00	45.00	405.00	450.00
	Toilet Deodorant	each	6.00	0.0%	100.0%	0.0%	15.0%	85.0%	24.00	0.00	144.00	0.00	21.60	122.40	144.00
	Insect Sprav, 120g	bottle	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	140.00	0.00	420.00	0.00	55.00	365.00	420.00
	Soap, 125g	each	11.00	0.0%	100.0%	0.0%	15.0%	85.0%	21.00	0.00	231.00	0.00	34.65	196.35	231.00
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%	47.25	15.92	254.84	143.24	175.07	318.30	2.0%
	Total								47.75	15,931.12	254.84	5,776.92	10,456.58	16,233.50	
	Components (%)								0.5%	98.1%	1.6%	26.6%	64.4%	100.0%	
	Unit Rate								47.65	15,698.24	254.12	5,785.00	10,455.00	16,200.00	

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

W3501 Relocation of Existing Lighting Poles

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0013	Demolition by Pneumatic Handheld Breaker (Lightly Reinforced Structures)	m3	0.54	27.3%	14.7%	63.0%	40.9%	59.1%	892.00	131.51	70.62	279.55	197.15	284.53	481.06
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	2.39	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	34.94	9.43	97.85	59.34	82.87	142.21
W0205	Disposal of Demolished Debris	m3	0.54	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	12.02	9.54	52.42	34.68	39.30	73.98
W0133	Backfill C	m3	2.93	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	48.52	50.27	226.07	209.89	214.96	424.85
W0105	Excavation, Backhoe 0.61m3	m3	3.15	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	5.67	10.82	112.35	68.13	60.71	128.84
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.52	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	3.94	7.13	37.29	23.47	48.36	
W0133	Backfill C	m3	2.63	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	43.35	45.12	232.68	189.40	192.95	381.35
W0161	Grave Foundation Fill	m3	0.05	24.0%	13.4%	62.7%	39.7%	60.3%	413.00	4.95	2.76	12.94	8.19	12.46	20.66
W0203	Concrete (Class A, 21MPa, max age 35mm)	m3	0.55	2.6%	40.1%	17.4%	56.7%	43.3%	1,620.00	22.72	713.40	154.88	505.28	385.72	891.00
W0235	Concrete Pouring by Manpower for small structures	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	118.59	0.24	2.13	1.30	119.66	120.96
W0236	Concrete Curine (plain concrete)	m3	0.54	70.9%	8.7%	20.4%	15.0%	84.0%	8.85	3.39	0.42	0.97	0.76	4.02	4.78
W0240	Formwork (plain concrete 10cm)	m2	3.60	58.9%	40.4%	0.8%	2.8%	97.1%	222.00	470.41	322.53	6.27	23.49	775.71	799.20
L002	Foreman	nd	0.38	100.0%	0.0%	0.0%	100.0%	566.00	215.08	0.00	0.00	0.00	215.08	215.08	
L012	Electrician	nd	0.44	100.0%	0.0%	0.0%	100.0%	421.00	185.24	0.00	0.00	0.00	185.24	185.24	
L002	Unskilled Labor	nd	0.75	100.0%	0.0%	0.0%	100.0%	314.00	235.50	0.00	0.00	0.00	235.50	235.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.91	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	140.81	85.15	699.39	435.76	490.89	926.35
Q0405-013	Lift Car, 12-15m	hr	0.95	6.8%	3.0%	90.2%	54.1%	45.9%	1,180.00	76.31	33.48	1,011.22	607.02	513.98	1,121.00
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	49.61	148.82	237.66	248.04	248.04	496.08	8.0%
	Total								1,802.74	1,510.72	3,383.65	2,612.32	4,084.79	6,897.11	
	Components (%)								26.9%	22.6%	50.5%	38.9%	61.0%	100.0%	
	Unit Rate								1,803.52	1,511.37	3,385.11	2,613.45	4,086.35	6,705.00	

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

W3502 Relocation of Underground Conduit

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat	Equip	For	Local		Labor	Material	Equipment	Foreign	Local	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	72.00	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	1,052.45	283.94	2,947.61	1,787.45	2,496.55	4,284.00
W0133	Backfill C	m3	72.00	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	1,192.24	1,235.22	8,012.54	5,157.61	5,282.39	10,440.00
W0105	Excavation, Backhoe 0.61m3	m3</													

W3504 Relocation of Sewer Pipe

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
WD106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	22.87	24.0%	6.6%	68.8%	41.7%	58.3%	59.50	334.30	90.19	936.28	567.77	792.00	1,360.77	
WD133	Backfill C	m ³	22.87	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	378.70	392.35	2,545.10	1,638.26	1,877.89	3,316.15	
WD105	Excavation, Backhoe 0.61m ³	m ³	22.87	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	41.16	78.57	815.65	494.62	440.76	935.38	
WD203	Concrete (Class A, 21MPa, max sz. 38mm)	m ³	5.02	2.8%	80.1%	17.4%	56.7%	43.3%	1,620.00	207.41	6,511.37	1,413.62	4,611.79	3,520.61	8,132.40	Loss 2.0%
WD235	Concrete Pouring by Manpower for small structures	m ³	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	234.00	1,080.47	2.16	19.45	11.89	1,090.19	1,102.08	
WD236	Concrete Curing (plain concrete)	m ³	4.92	70.9%	8.7%	20.4%	16.0%	34.0%	8.85	30.88	3.80	8.86	6.96	36.58	43.54	
WD162	Selected Sand Fill	m ³	8.86	32.3%	15.4%	52.2%	34.3%	65.7%	297.00	850.87	405.93	1,374.62	903.14	1,728.28	2,631.42	
WD133	Backfill C	m ³	4.53	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	75.01	77.72	504.12	324.50	332.33	856.85	
WD111	Disposal of Surplus Soil (backhoe loading)	m ³	18.34	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	138.92	251.63	1,515.07	877.95	827.67	1,705.62	
WQ332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ø610	m	10.00	10.2%	68.2%	21.6%	63.6%	46.4%	1,120.00	1,144.15	7,636.79	2,419.05	6,003.06	5,196.94	11,200.00	
WQ342	Precast Concrete Pipe Laying ø610	m	10.00	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	1,111.80	200.86	1,127.34	724.50	1,715.56	2,440.00	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total								6,393.66	15,651.38	12,479.16	16,164.43	17,359.78	33,524.21		
	Components (%)								16.1%	46.7%	37.2%	48.2%	31.8%	100.0%		
	Unit Rate								538.98	1,564.01	1,247.02	1,615.28	1,734.72	3,350.00		

W3511 Repair & Maintenance of Existing Access Road

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
W0122	Crushed Aggregate, transported	m ³	19.80	9.2%	15.7%	73.1%	47.3%	52.7%	277.00	502.28	861.40	4,120.92	2,593.17	2,891.43	5,484.60	Loss 32.0%
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	663.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		170.15	340.30	340.30	340.30	310.45	850.75	12.0%
	Total								1,614.43	1,319.06	5,066.87	3,308.09	4,634.26	7,940.35		
	Components (%)								20.3%	16.8%	53.1%	41.6%	58.4%	100.0%		
	Unit Rate								16.14	13.19	50.67	33.06	46.34	79.40		

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					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	0.00	0.00	0.00	0.00	566.00	566.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
	Compensation	LS	1.00	50.0%	50.0%	0.0%	0.0%	100.0%	94,290.00	47,145.00	0.00	0.00	0.00	94,290.00	94,290.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		233.19	765.38	765.38	765.38	1,149.56	1,915.96	2.0%
	Total								49,026.19	47,911.38	765.38	765.38	96,947.56	97,713.96		
	Components (%)								49.02%	49.02%	0.8%	0.8%	99.2%	100.0%		
	Unit Rate								49,026.19	47,904.54	765.27	765.27	96,933.13	97,700.60		

Miscellaneous covers the costs for minor repair works, vehicle depreciation, contingency, etc.
Compensation = affected household x number of persons x minimum wage x affected duration
Affected households = 20 households
Number of person per household = 3 persons/household
Minimum wage = 224.50 PP/day
Affected duration = 7 days

W4111 Health and Safety Requirements

Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Health and safety Requirements	day	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	674.00	67.40	370.70	235.90	269.60	404.40	674.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								67.40	370.70	235.90	269.60	404.40	674.00		
	Components (%)								10.0%	55.0%	35.0%	40.0%	60.0%	100.0%		
	Unit Rate								67.40	370.70	235.90	269.60	404.40	674.00		

Health and Safety Requirements = Minimum wage x a
Minimum wage = 224.50 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					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0106	Excavation, Backhoe 0.61m ³ + Manpower	m ³	4.70	24.0%	6.6%	68.8%	41.7%	58.3%	59.50	68.70	18.54	192.41	116.68	162.97	279.65	
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.60	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	4.54	8.23	43.02	28.72	27.08	55.80	
W0133	Backfill C	m ³	4.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	67.89	70.34	456.27	293.70	300.80	594.50	
WD203	Concrete (Class A, 21MPa, max sz. 38mm)	m ³	0.61	2.8%	80.1%	17.4%	56.7%	43.3%	1,620.00	25.20	791.22	171.77	560.40	427.80	988.20	Loss 2.0%
WD235	Concrete Pouring by Manpower for small structures	m ³	0.60	98.0%	0.2%	1.8%	1.1%	98.9%	234.00	131.78	0.20	2.37	1.45	132.95	134.40	
WD236	Concrete Curing (plain concrete)	m ³	0.60	70.9%	8.7%	20.4%	16.0%	34.0%	8.85	3.77	0.46	1.08	0.85	4.48	5.31	
WQ240	Formwork (plain concrete H=4m)	m ²	4.80	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	627.21	430.03	8.36	31.32	1,034.28	1,065.60	
W0701	Traffic Sign Board (aluminum)	m ²	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,281.80	23,690.20	81,972.00	
W06708	Steel Gas Pipe, ø 125	m	11.20	100.0%	0.0%	0.0%	60.0%	40.0%	503.00	0.00	5,633.60	0.00	3,380.16	2,253.44	5,633.60	
L002	Foreman	md	0.11	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	62.26	0.00	0.00	0.00	62.26	62.26	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		545.45	1,090.89	1,090.89	1,363.61	1,363.61	2,727.23	3.0%
	Total								1,652.96	90,015.58	1,966.18	39,058.69	34,576.03	93,624.73		
	Components (%)								1.8%	96.1%	2.1%	63.1%	36.9%	100.0%		
	Unit Rate								1,652.96	89,982.70	1,966.45	39,058.79	34,563.21	93,600.00		

Miscellaneous covers the costs for fixtures, paints, etc.