5. Summary of Basic Work Costs

Item No.	Description	Unit	Unit Rate						Remarks
			Components (%)					Total (PP)	
			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	6.0%	25.8%	68.2%	45.5%	54.5%	116.00	
W0122	Crushed Aggregate, transported	m3	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	
W0123	Excavated Soil, transported	m3	7.3%	13.4%	79.3%	51.8%	48.2%	65.00	
W0128	Selected Sand, transported	m3	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	
W0129	Gravel/Stone, transported	m3	11.6%	18.6%	69.8%	45.3%	54.7%	212.00	
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	24.1%	13.3%	62.6%	39.5%	60.5%	409.00	
W0162	Selected Sand Fill	m3	32.6%	15.4%	52.0%	34.1%	65.9%	293.00	
W0201	Lean Concrete (17MPa, max agg.38mm)	m3	2.7%	79.0%	18.3%	56.5%	43.5%	1,500.00	
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	3.0%	76.4%	20.6%	56.1%	43.9%	1,380.00	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	
W0203a	Concrete (Class A1, 21MPa, max agg.20mm)	m3	2.4%	81.8%	15.9%	56.9%	43.1%	1,680.00	
W0204	Concrete (Class C, 21MPa, max agg.12mm)	m3	2.3%	82.3%	15.3%	57.0%	43.0%	1,710.00	
W0205	Concrete (Class AA1, 28MPa, max agg.25mm)	m3	2.3%	82.2%	15.5%	57.7%	42.3%	1,760.00	
W0206	Concrete (Class AA2, 28MPa, max agg.20mm)	m3	2.1%	83.5%	14.4%	57.9%	42.1%	1,840.00	
W0208	Concrete (Class PP, 41MPa, max agg.20mm)	m3	1.9%	85.7%	12.4%	58.3%	41.7%	2,130.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max	m3	2.7%	78.5%	18.8%	57.1%	42.9%	1,520.00	
W0215	Concrete (for RCPC, 25MPa, max agg.20mm)	m3	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	
W0216	Concrete (for RCPC, 32MPa, max agg.20mm)	m3	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	
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%	93.7%	4.8%	58.1%	41.9%	2,350.00	
W0225	Grout (non-shrink)	m3	1.0%	96.3%	2.8%	61.2%	38.8%	3,060.00	
W0231	Concrete Pouring by Pump Vehicle (plain	m3	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.1%	0.2%	70.7%	37.9%	62.1%	508.00	
W0234	Concrete Pouring by Truck Crane	m3	30.6%	5.8%	63.6%	38.4%	61.6%	281.00	
W0235	Concrete Pouring by Manpower for small	m3	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	
W0240	Formwork (plain concrete H<4m)	m2	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	
W0242	Formwork (reinforced concrete H≧4m)	m2	47.1%	33.6%	19.3%	13.6%	86.4%	283.00	
W0243	Formwork (lean concrete)	m2	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	
W0244	Formwork for Bridge Superstructures	m2	57.7%	26.8%	15.5%	11.1%	88.9%	354.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	62.6%	21.6%	15.8%	11.4%	88.6%	468.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	

Item No.	Description	Unit	Unit Rate						Remarks
			Components (%)					Total	
			Lab.	Mat.	Equip.	For.	Local	(PP)	
W0303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ460 (18″)	m	9.7%	66.4%	24.0%	53.5%	46.5%	529.00	
W0304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ610 (24″)	m	9.9%	66.6%	23.5%	53.5%	46.5%	872.00	
W0305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ760 (30″)	m	10.0%	66.8%	23.2%	53.5%	46.5%	1,300.00	
W0306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ910 (36″)	m	10.5%	67.2%	22.3%	53.4%	46.6%	1,990.00	
W0307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1070 (42″)	m	10.5%	67.2%	22.3%	53.4%	46.6%	2,610.00	
W0308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1220 (48″)	m	10.5%	67.2%	22.3%	53.4%	46.6%	3,290.00	
W0309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1520 (60″)	m	10.5%	67.2%	22.3%	53.4%	46.6%	4,910.00	
W0313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ460 (18″)	m	10.4%	68.4%	21.2%	53.6%	46.4%	582.00	
W0314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ610 (24″)	m	10.3%	68.4%	21.3%	53.6%	46.4%	954.00	
W0315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ760 (30″)	m	10.2%	68.3%	21.5%	53.6%	46.4%	1,340.00	
W0316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ910 (36″)	m	10.8%	68.7%	20.5%	53.5%	46.5%	2,150.00	
W0317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1070 (42″)	m	10.7%	68.6%	20.6%	53.5%	46.5%	2,700.00	
W0318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1220 (48″)	m	10.7%	68.6%	20.6%	53.5%	46.5%	3,500.00	
W0319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ1520 (60″)	m	10.8%	68.7%	20.5%	53.5%	46.5%	5,210.00	
W0331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ460 (18″)	m	10.4%	68.4%	21.2%	53.6%	46.4%	751.00	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610 (24″)	m	10.2%	68.3%	21.5%	53.6%	46.4%	1,120.00	
W0333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ760 (30″)	m	10.3%	68.4%	21.3%	53.6%	46.4%	1,650.00	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ910 (36″)	m	10.8%	68.3%	20.9%	53.5%	46.5%	2,650.00	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42″)	m	11.2%	68.6%	20.2%	53.4%	46.6%	3,970.00	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48″)	m	10.8%	68.3%	20.9%	53.5%	46.5%	4,330.00	
W0337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1520 (60″)	m	11.2%	68.5%	20.4%	53.4%	46.6%	7,500.00	
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	

Item No.	Description	Unit	Unit Rate: Components (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Remarks
W0442	Temporary Frame Support Depreciation	m3·d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.6%	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	m2	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%	1,380.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	493.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	5.9%	93.9%	0.2%	65.0%	35.0%	934.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.2%	91.6%	0.2%	62.8%	37.2%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	96.0%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.5%	1.7%	70.7%	29.3%	2,060.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m3	6.0%	74.6%	19.4%	55.3%	44.7%	2,120.00	
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	14.3%	62.3%	23.4%	50.3%	49.7%	3,060.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.7%	61.9%	23.4%	50.1%	49.9%	2,920.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	14.7%	61.7%	23.6%	50.0%	50.0%	2,870.00	
W0611	Stone Laying	m3	9.9%	14.5%	75.6%	47.7%	52.3%	396.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m3	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·m3	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·m3	28.0%	28.7%	43.3%	38.0%	62.0%	179.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m3	21.4%	40.6%	38.0%	41.2%	58.8%	93.90	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m3	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: Components (%) Lab.	Mat.	Equip.	For.	Local	Total (PP)	Remarks
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%	90.5%	8.1%	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%	90.5%	5.3%	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	6.2%	50.4%	43.4%	52.5%	47.5%	950.00	
W0732	Granular Bedding for Rubble Concrete	m3	26.6%	12.7%	60.7%	38.1%	61.9%	418.00	
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%	62.8%	21.8%	48.1%	51.9%	751.00	
W0742	Stone Masonry, laid	m3	14.2%	69.2%	16.6%	49.3%	50.7%	1,020.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.2%	50.0%	1.8%	19.0%	81.0%	39.10	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	25.8%	12.9%	61.3%	39.2%	60.8%	56.20	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	16.7%	69.1%	6.8%	46.1%	46.5%	417.00	
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%	25.20	
W0922	Tree Haulage, Medium Tree 1.5m<H≦3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	47.80	
W0923	Tree Haulage, High Tree (young tree) 1.5m<	each	13.5%	19.3%	67.2%	49.0%	51.0%	83.00	
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	13.1%	68.5%	18.4%	49.9%	50.1%	47.00	
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%	71.6%	14.9%	51.8%	48.2%	248.00	
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%	67.8%	19.2%	47.1%	52.9%	365.00	
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%	68.4%	24.9%	59.6%	40.4%	22,700.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.1%	67.6%	25.3%	59.3%	40.7%	21,600.00	
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	12.2%	52.8%	35.0%	53.7%	46.3%	9,460.00	
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	12.6%	51.6%	35.8%	53.2%	46.8%	9,120.00	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	12.8%	51.0%	36.2%	53.0%	47.0%	8,940.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.3%	59.8%	29.8%	56.5%	43.5%	16,800.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.1%	60.5%	29.4%	56.8%	43.2%	17,400.00	
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%	220,000.00	
W2003	Other Equipment & Material Haulage	LS	9.0%	15.4%	75.6%	51.1%	48.9%	247,000.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	616,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.5%	8.2%	90.3%	54.4%	45.6%	2.53	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.5%	84.4%	3.1%	36.5%	63.5%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.6%	83.0%	3.4%	37.5%	62.5%	305.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.6%	66.0%	26.4%	60.1%	39.9%	39,900.00	
W3004	Prepainted Corrugated G.I. Roofing Fabrication & Erection	m2	8.2%	79.4%	12.4%	54.4%	45.6%	161.00	
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						Remarks
			Components (%)					Total (PP)	
			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%	85.3%	7.1%	54.3%	45.7%	63.50	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.1%	84.8%	7.1%	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%	84.0%	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%	22.0%	44.2%	55.8%	20,700.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.2%	93.2%	3.6%	49.1%	50.9%	1,840.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.4%	92.8%	1.7%	14.7%	85.3%	127.00	
W3019	Temporary Office Rental	month	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	0.0%	82.9%	17.1%	34.5%	65.5%	1,040.00	
W3102	Furniture and Fixtures for Field Office	L.S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L.S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L.S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L.S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L.S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L.S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L.S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US$1.50 million
W3501	Relocation of Existing Lighting Poles	each	26.9%	22.6%	50.5%	39.0%	61.0%	6,690.00	
W3502	Relocation of Underground Conduit	m	17.9%	24.6%	57.5%	44.8%	55.2%	450.00	
W3503	Relocation of Watermain	m	5.2%	76.8%	18.0%	55.7%	44.3%	1,470.00	
W3504	Relocation of Sewer Pipe	m	16.1%	46.8%	37.1%	48.2%	51.8%	3,340.00	
W3511	Repair & Maintenance of Existing Access Road	m2	20.4%	16.6%	63.0%	41.6%	58.4%	78.70	
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%	1,600,000.00	

6. Breakdown of Basic Work Cost

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

W0001 Grass Cutting Unit: 1,000.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	215.08	0.00	0.00	0.00	215.08	215.08	
L019	Skilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	685.10	0.00	0.00	0.00	685.10	685.10	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	9.94	89.49	49.72	49.72	99.44	10.0%
	Total									994.38	9.94	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	m2								0.99	0.01	0.09	0.05	1.04	1.09	

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

W0002 Tree Cutting Unit: 1,000.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	181.12	0.00	0.00	0.00	181.12	181.12	
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	463.45	0.00	0.00	0.00	463.45	463.45	
L020	Unskilled Labor	md	0.64	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	200.96	0.00	0.00	0.00	200.96	200.96	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	6.76	60.88	33.82	33.82	67.64	8.0%
	Total									845.53	6.76	60.88	33.82	879.35	913.17	
	Components (%)									92.6%	0.7%	6.7%	3.7%	96.3%	100.0%	
	Unit Rate	m2								0.85	0.01	0.06	0.03	0.88	0.91	

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

W0003 Grubbing Unit: 1,000.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.17	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, 0.6lm3	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							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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	m2								1.00	1.98	21.93	13.21	11.69	24.90	

W0004 Burning Unit: 1,000.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	367.90	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	395.64	0.00	0.00	0.00	395.64	395.64	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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	m2								1.90	0.00	0.00	0.00	1.90	1.90	

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L020	Unskilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20	251.20	
R0202-000	Crawler Drill	hr	2.50	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	1,295.00	703.04	591.96	1,295.00	
R0102-061	Backhoe, hydraulic, crawler, 0.6lm3	hr	2.50	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	191.40	365.40	3,793.20	2,300.22	2,049.78	4,350.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	30.90	30.90	33.99	27.81	61.79	1.0%
	Total									725.60	396.30	5,119.10	3,037.24	3,203.75	6,240.99	
	Components (%)									11.6%	6.3%	82.0%	48.7%	51.3%	100.0%	
	Unit Rate	m3								72.55	39.62	511.83	303.68	320.32	624.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00	
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	533.80	0.00	0.00	0.00	533.80	533.80	
R0202-000	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	2,538.20	1,377.95	1,160.25	2,538.20	
R0102-061	Backhoe, hydraulic, crawler, 0.6lm3	hr	4.90	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	375.14	716.18	7,434.67	4,508.43	4,017.57	8,526.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	245.75	245.75	270.33	221.18	491.50	4.0%
	Total									1,598.54	961.94	10,218.62	6,156.71	6,622.39	12,779.10	
	Components (%)									12.5%	7.5%	80.0%	48.2%	51.8%	100.0%	
	Unit Rate	m3								160.12	96.35	1,023.53	616.68	663.32	1,280.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	4.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,287.40	0.00	0.00	0.00	1,287.40	1,287.40	
R0204-020	Pneumatic Breaker, Handhold	day	4.20	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	1,919.40	1,042.11	877.29	1,919.40	
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m3/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%	50.0%	50.0%	55.0%	45.0%		0.00	87.43	87.43	96.18	78.69	174.86	2.0%
	Total									2,434.80	1,307.57	5,175.69	3,650.20	5,267.86	8,918.06	
	Components (%)									27.3%	14.7%	58.0%	40.9%	59.1%	100.0%	
	Unit Rate	m3								243.53	130.79	517.68	365.10	526.90	892.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,471.60	0.00	0.00	0.00	1,471.60	1,471.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00	350.00	
L019	Skilled Labor	md	9.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,788.20	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 (3.6-4.5m3/min)	day	2.90	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,684.96	4,376.04	3,468.84	2,592.16	6,061.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	164.88	164.88	181.37	148.39	329.76	2.0%
	Total									7,776.40	1,849.84	7,191.52	5,089.31	11,728.45	16,817.76	
	Components (%)									46.2%	11.0%	42.8%	30.3%	69.7%	100.0%	
	Unit Rate	m3								776.82	184.79	718.39	508.39	1,171.61	1,680.00	

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

W0015 Demolition of PCC Pavement by Crawler Drill Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0202-000	Crawler Drill	hr	0.25	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	129.50	70.30	59.20	129.50	
R0102-061	Backhoe, hydraulic, crawler, 0.6lm3	hr	0.25	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	19.14	36.54	379.32	230.02	204.98	435.00	
R0102-061	Backhoe, hydraulic, crawler, 0.6lm3	hr	0.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									19.14	36.54	508.82	300.33	264.17	564.50	
	Components (%)									3.4%	6.5%	90.1%	53.2%	46.8%	100.0%	
	Unit Rate	0								1.92	3.66	50.93	30.06	26.44	56.50	

Concrete Pavement Thickness = 0.250 m
Aggregate Subbase Thickness = 0.000 m
A = Sx(1+K)xE1 (Demolition)
A : Demolition capacity per hour = 40.00 m2/hr
S : Basic demolition capacity = 50.00 m2/hr (Giant Breaker)
K : Coefficient = 0.00
E1: Efficiency = 0.80

Backhoe daily operation hour = 5.47 hr/day
Q = VxMxE2 (Backhoe excavation & loading)
Q : Excavation & loading capacity per hour = 17.00 m3/hr
V : Basic work capacity = 25.00 m3/hr
M : Coefficient = 0.85
E2: Efficiency = 0.80

W0015 Excavation of Gravel Pavement Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	86.23	895.20	542.85	483.75	1,026.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									45.17	86.23	895.20	542.85	483.75	1,026.60	
	Components (%)									4.4%	8.4%	87.2%	52.9%	47.1%	100.0%	
	Unit Rate	0								0.45	0.87	8.98	5.43	4.85	10.30	

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

W0025 Disposal of Demolished Debris Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	257.62	229.58	487.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.26	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	75.98	136.00	547.80	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	176.93	972.64	643.43	729.15	1,372.58	
	Components (%)									16.2%	12.9%	70.9%	46.9%	53.1%	100.0%	
	Unit Rate	m3								22.26	17.66	97.08	64.22	72.78	137.00	

Q = 3600·q·f·E/Cm (Backhoe)
Q : Excavation Volume per hour = 35.4 m3/h
q : Excavation Volume per Cycle = 0.59 m3
f : Volume Coefficient = 1.00
E : Efficiency = 0.50
Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 7.91 m3/hr
q : Loading Capacity of a Truck = 5.30 m3
f : Volume Coefficient = 1.00
E : Efficiency = 0.90
Cm: Cycle Time = A + 2·L/V = 0.60 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance to Disposal Point = 5.00 km

W0101 Excavation, Bulldozer 21t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.61	1.5%	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 (%)									1.5%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate	m3								0.38	2.07	22.85	13.76	11.54	25.30	

Q = 60·q·f·E/Cm
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
Cm: Cycle Time = 0.027·L + 0.79 = 0.93 min
L : Average pushing distance = 5.00 m

W0102 Excavation, Backhoe 0.35m3 Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	m3								3.16	4.15	42.09	25.59	23.81	49.40	

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

W0105 Excavation, Backhoe 0.61m3 Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	m3								1.80	3.44	35.66	21.63	19.27	40.90	

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

W0106 Excavation, Backhoe 0.61m3 + Manpower Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	221.58	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	346.98	595.40	
	Components (%)									24.6%	6.6%	68.8%	41.7%	58.3%	100.0%	
	Unit Rate	m3								14.62	3.94	40.94	24.83	34.67	59.50	

W0107 Excavation, Clamshell + Backhoe Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
Q0106-006	Clamshell, crawler, 0.6m3	hr	2.90	2.9%	8.3%	88.8%	56.3%	43.7%	2,330.00	195.26	561.21	6,000.53	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	1,033.75	1,046.25	2,080.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									719.34	738.01	7,693.65	4,835.53	4,315.47	9,151.00	
	Components (%)									7.9%	8.1%	84.1%	52.8%	47.2%	100.0%	
	Unit Rate	m3								7.19	7.38	76.93	48.35	43.15	91.50	

W0108 Excavation, Backhoe 0.61m3 + Crawler Drill Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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%	46.8%	100.0%	
	Unit Rate	m3								6.27	11.98	166.75	98.42	86.58	185.00	

W0109 Excavation, Manpower Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	1,318.80	1,318.80	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	m3								132.00	0.00	0.00	0.00	132.00	132.00	

W0111 **Disposal of Surplus Soil (backhoe loading)** Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.31	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	621.69	1,112.83	4,482.41	3,156.83	3,060.10	6,216.93	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									757.20	1,371.53	7,167.99	4,785.39	4,511.34	9,296.73	
	Components (%)									8.1%	14.8%	77.1%	51.5%	48.5%	100.0%	
	Unit Rate	m3								7.57	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/h
q : Excavation Volume per Cycle = 0.59 m3
f : Volume Coefficient = 1.00
E : Efficiency = 0.80
Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 9.70 m3/hr
q : Loading Capacity of a Truck = 6.50 m3
f : Volume Coefficient = 1.00
E : Efficiency = 0.90
Cm: Cycle Time = A + 2·L/V = 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

W0115 **Disposal of Surplus Soil (manpower loading)** Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.03	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	62.11	111.18	447.81	315.38	305.71	621.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									470.31	111.18	447.81	315.38	713.91	1,029.29	
	Components (%)									45.7%	10.8%	43.5%	30.6%	69.4%	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 = 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

W0121 **Borrow Soil, transported** Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
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	9.05	8.0%	17.9%	74.1%	51.9%	48.1%	756.00	547.34	1,224.68	5,069.77	3,551.29	3,290.51	6,841.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									691.28	2,999.46	7,922.26	5,281.06	6,331.94	11,613.00	
	Components (%)									6.0%	25.8%	68.2%	45.5%	54.5%	100.0%	
	Unit Rate	m3								6.91	29.96	79.13	52.75	63.25	116.00	

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

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 11.04 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 = 0.74 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance from Quarry = 7.00 km

W0122 **Crushed Aggregate, transported** Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
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	1,099.00	
R0716-010	Aggregate Crusher 100t/hr	hr	2.24	0.0%	5.5%	94.5%	54.1%	45.9%	2,700.00	0.00	332.64	5,715.36	3,272.89	2,775.11	6,048.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	13.87	10.0%	17.9%	72.1%	50.3%	49.2%	603.00	836.36	1,497.09	6,030.16	4,246.87	4,116.74	8,363.61	
	Miscellaneous	LS	1.00	25.0%	25.0%	50.0%	40.0%	60.0%		134.12	134.12	268.24	214.59	321.89	536.48	2.0%
	Total									2,501.28	4,288.19	20,571.22	12,923.65	14,437.04	27,360.69	
	Components (%)									9.1%	15.7%	75.2%	47.2%	52.8%	100.0%	
	Unit Rate	m3								25.05	42.94	206.01	129.42	144.58	274.00	

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

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

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 7.21 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 = 0.74 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance from Quarry = 7.00 km

W0123 **Excavated Soil, transported** Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,686.59	1,628.56	1,451.24	3,079.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	5.67	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	341.90	612.00	2,465.11	1,736.11	1,682.90	3,419.01	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									477.41	870.71	5,150.69	3,364.66	3,134.15	6,498.81	
	Components (%)									7.3%	13.4%	79.3%	51.8%	48.2%	100.0%	
	Unit Rate	m3								4.77	8.71	51.52	33.65	31.35	65.00	

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

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 17.64 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 = 0.34 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance from Quarry = 1.00 km

W0128 **Selected Sand, transported** Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
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	1,099.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	166.14	317.17	3,292.50	1,996.59	1,779.21	3,775.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	12.40	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	747.72	1,338.42	5,391.06	3,796.77	3,680.43	7,477.20	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%		70.51	105.77	176.28	141.02	211.53	352.56	2.0%
	Total									2,249.50	3,578.52	12,152.33	7,930.98	10,049.38	17,980.36	
	Components (%)									12.5%	19.9%	67.6%	44.1%	55.9%	100.0%	
	Unit Rate	m3								22.52	35.82	121.66	79.40	100.60	180.00	

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

Q = 3600·q·f·E/Cm (Backhoe)
Q : Excavation Volume per hour = 46.02 m3/h
q : Excavation Volume per Cycle = 0.59 m3
f : Volume Coefficient = 1.00
E : Efficiency = 0.65
Cm: Cycle Time = 30 sec

Q = q·f·E/Cm (Dump Truck)
Q : Transportation Volume per hour = 8.06 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 = 0.74 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance from Quarry = 7.00 km

W0129 Gravel/Stone, transported Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
M03004	Quarry Royalty (Gravel/Stone)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
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, 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	13.87	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	836.36	1,497.09	6,030.16	4,246.87	4,116.74	8,363.61	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%		83.10	124.66	207.76	166.21	249.31	415.52	2.0%
	Total									2,450.26	3,946.09	14,795.38	9,602.38	11,589.35	21,191.73	
	Components (%)									11.6%	18.6%	69.8%	45.3%	54.7%	100.0%	
	Unit Rate	m3								24.51	39.48	148.01	96.06	115.94	212.00	

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

Q = 3600·q·f·E/Cm (Backhoe)
Q : Excavation Volume per hour = 35.4 m3/h
q : Excavation Volume per Cycle = 0.59 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 = 7.21 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 = 0.74 hr
V : Vehicle speed = 30.00 km/hr
a : Loading time = 0.27 hr
L : Average Distance from Quarry = 7.00 km

W0131 Backfill A Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	153.12	292.32	3,034.56	1,840.18	1,639.82	3,480.00	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	2.00	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	162.00	421.20	4,816.80	2,893.27	2,506.73	5,400.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	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	m3								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 – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L020	Unskilled Labor	md	1.72	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	540.08	0.00	0.00	0.00	540.08	540.08	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.80	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	214.37	409.25	4,248.38	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	1,735.96	1,504.04	3,240.00	
R0307-000	Plate Compactor	day	3.12	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	430.75	2,002.85	1,367.75	1,065.85	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	9,163.70	5,706.36	5,423.56	11,129.92	
	Components (%)									7.7%	10.0%	82.3%	51.3%	48.7%	100.0%	
	Unit Rate	m3								8.49	11.12	91.39	56.91	54.09	111.00	

W0133 Backfill C Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,350.20	0.00	0.00	0.00	1,350.20	1,350.20	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	4.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	306.24	584.64	6,069.12	3,680.35	3,279.65	6,960.00	
R0307-000	Plate Compactor	day	7.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,076.87	5,007.13	3,419.36	2,664.64	6,084.00	
R0306-006	Vibration Rammer, 6in	day	0.70	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	54.64	55.96	66.00	44.60	110.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,656.44	1,716.14	11,132.22	7,165.72	7,339.08	14,504.80	
	Components (%)									11.4%	11.8%	76.7%	49.4%	50.6%	100.0%	
	Unit Rate	m3								16.56	17.16	111.29	71.63	73.37	145.00	

W0134 Backfill D Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	6.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	459.36	876.96	9,103.68	5,520.53	4,919.47	10,440.00	
R0307-000	Plate Compactor	day	8.00	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	1,104.48	5,135.52	3,507.04	2,732.96	6,240.00	
R0306-006	Vibration Rammer, 6in	day	7.00	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	546.36	559.64	660.02	445.98	1,106.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,657.36	2,527.80	14,798.84	9,687.59	10,296.41	19,984.00	
	Components (%)									13.3%	12.6%	74.1%	48.5%	51.5%	100.0%	
	Unit Rate	m3								26.59	25.30	148.11	96.95	103.05	200.00	

W0135 Backfill, Manpower + Compactor Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60	
R0307-000	Plate Compactor	day	0.16	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	22.09	102.71	70.14	54.66	124.80	
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.07	21.59	25.46	17.20	42.66	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									596.60	43.16	124.30	95.60	668.46	764.06	
	Components (%)									78.1%	5.6%	16.3%	12.5%	87.5%	100.0%	
	Unit Rate	m3								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 – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 (%)									3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3								0.83	2.15	24.53	14.73	12.77	27.50	

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

W0142 Filling & Laying, bulldozer 21t Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.71	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	44.20	241.61	2,660.69	1,602.96	1,343.54	2,946.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									44.20	241.61	2,660.69	1,602.96	1,343.54	2,946.50	
	Components (%)									1.5%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate	m3								0.44	2.42	26.64	16.05	13.45	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 – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	0.89	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	72.09	187.43	2,143.48	1,287.50	1,115.50	2,403.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									72.09	187.43	2,143.48	1,287.50	1,115.50	2,403.00	
	Components (%)									3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3								0.72	1.87	21.41	12.86	11.14	24.00	

Q = V·W·D·E/N
Q : Compaction Volume per hour = 112 m3/hr
V : Compaction speed = 3500 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

W0146 **Compaction, bulldozer 21t** — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0101-021	Tractor, crawler w/dozer (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·W·D·E/N
Q : Compaction Volume per hour = 157.5 m3/hr
V : Compaction speed = 3500 m/hr
W : Effective compaction width = 0.900 m
D : Layer thickness 0.250 m
E : Efficiency = 0.80
N : Number of Compaction = 4 times

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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·W·D·E/N
Q : Compaction Volume per hour = 189 m3/hr
V : Compaction speed = 3500 m/hr
W : Effective compaction width = 1.800 m
D : Layer thickness 0.250 m
E : Efficiency = 0.60
N : Number of Compaction = 5 times

W0148 **Compaction, tamper** — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
R0306-006	Vibration Rammer, 6in	day	0.27	0.0%	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	0.80	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	110.45	513.55	350.70	273.30	624.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									94.20	131.52	535.14	376.16	384.70	760.86	
	Components (%)									12.4%	17.3%	70.3%	49.4%	50.6%	100.0%	
	Unit Rate	m3								9.42	13.15	53.52	37.62	38.48	76.10	

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	1.35	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	84.04	459.41	5,059.06	3,047.89	2,554.61	5,602.50	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	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 = Q1xQ2/(Q1+Q2) = 74.12 m3/hr
Q1 = V·W·D·E/N
Q1 : Compaction Volume per hour = 157.5 m3/hr
V : Compaction speed = 3,500 m/hr
W : Effective compaction width = 0.900 m
D : Layer thickness = 0.250 m
E : Efficiency = 0.800
N : Number of Compaction = 4 times

Q2 = 10·E·(18·D + 13)
Q2 : Filling Volume per hour = 140.00 m3/hr
E : Efficiency = 0.80
D : Layer thickness 0.250 m

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.91	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00	
	Components (%)									3.0%	7.8%	89.2%	53.6%	46.4%	100.0%	
	Unit Rate	m3								1.55	4.02	46.03	27.65	23.95	51.60	

Q = Q1xQ2/(Q1+Q2) = 52.27 m3/hr
Q1 = V·W·D·E/N
Q1 : Compaction Volume per hour = 112 m3/hr
V : Compaction speed = 3,500 m/hr
W : Effective compaction width = 0.800 m
D : Layer thickness = 0.250 m
E : Efficiency = 0.800
N : Number of Compaction = 5 times

Q2 = 10·E·(13·D + 9)
Q2 : Filling Volume per hour = 98.00 m3/hr
E : Efficiency = 0.80
D : Layer thickness 0.250 m

W0151 **Slope Formation by Bulldozer** — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.40	3.0%	7.8%	89.2%	53.6%	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									295.60	294.84	3,371.76	2,025.29	1,936.91	3,962.20	
	Components (%)									7.5%	7.4%	85.1%	51.1%	48.9%	100.0%	
	Unit Rate	m2								2.95	2.95	33.70	20.24	19.36	39.60	

W0152 **Slope Formation by Backhoe** — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	219.80	0.00	0.00	0.00	219.80	219.80	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.60	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	199.06	380.02	3,944.93	2,392.23	2,131.77	4,524.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									475.46	380.02	3,944.93	2,392.23	2,408.17	4,800.40	
	Components (%)									9.9%	7.9%	82.2%	49.8%	50.2%	100.0%	
	Unit Rate	m2								4.75	3.80	39.45	23.92	24.08	48.00	

W0161 **Gravel Foundation Fill** — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	300.58	515.32	2,472.09	1,553.07	1,734.93	3,288.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%		0.00	29.81	89.42	65.57	53.65	119.22	3.0%
	Total									986.68	545.13	2,561.51	1,618.64	2,474.68	4,093.32	
	Components (%)									24.1%	13.3%	62.6%	39.5%	60.5%	100.0%	
	Unit Rate	m3								98.59	54.47	255.94	161.73	247.27	409.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0128	Selected Sand, transported	m3	12.00	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	270.24	429.89	1,459.87	952.76	1,207.24	2,160.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%		0.00	21.35	64.04	46.96	38.42	85.38	3.0%
	Total									956.34	451.24	1,523.91	999.72	1,931.76	2,931.48	
	Components (%)									32.6%	15.4%	52.0%	34.1%	65.9%	100.0%	
	Unit Rate	m3								95.59	45.10	152.31	99.92	193.08	293.00	

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

W0201 Lean Concrete (17MPa, max agg. 38mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.30	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	11,137.50	0.00	6,682.50	4,455.00	11,137.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.59	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	114.97	197.11	945.58	594.05	663.61	1,257.66	Loss 10.0%
W0128	Selected Sand, transported	m3	3.19	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	71.84	114.28	388.08	253.27	320.93	574.20	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		29.31	131.92	131.92	146.57	146.57	293.15	2.0%
	Total									404.79	11,813.46	2,732.25	8,445.45	6,505.05	14,950.50	
	Components (%)									2.7%	79.0%	18.3%	56.5%	43.5%	100.0%	
	Unit Rate	m3								40.61	1,185.26	274.13	847.34	652.66	1,500.00	

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	= 0.32 hr
Water	=	175.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.00 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0202 Concrete (Class B, 17MPa, max agg. 50mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	2.93	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	9,888.75	0.00	5,933.25	3,955.50	9,888.75	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.48	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	137.27	235.33	1,128.92	709.23	792.29	1,501.52	Loss 10.0%
W0128	Selected Sand, transported	m3	2.70	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	60.80	96.73	328.47	214.37	271.63	486.00	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	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		27.10	121.96	121.96	135.51	135.51	271.02	2.0%
	Total									413.83	10,562.18	2,846.03	7,760.10	6,061.95	13,822.04	
	Components (%)									3.0%	76.4%	20.6%	56.1%	43.9%	100.0%	
	Unit Rate	m3								41.32	1,054.53	284.15	774.77	605.23	1,380.00	

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

Cement	=	287.00 kg/m3	Plant Daily Operation	= 5.53 hr
Aggregate (max 40mm)	=	1,321.00 kg/m3	Concrete Mixer Truck Capacity	= 4.30 m3
Sand	=	641.00 kg/m3	Transportation Time = 2·L/V + .16	= 0.32 hr
Water	=	155.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.00 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0203 Concrete (Class A, 21MPa, max agg. 38mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	3.64	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,285.00	0.00	7,371.00	4,914.00	12,285.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.52	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	113.22	194.10	931.16	584.99	653.49	1,238.48	Loss 10.0%
W0128	Selected Sand, transported	m3	3.14	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	70.71	112.49	382.00	249.30	315.90	565.20	Loss 10.0%
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		31.55	141.99	141.99	157.77	157.77	315.53	2.0%
	Total									404.15	12,966.23	2,721.82	9,132.11	6,960.09	16,092.20	
	Components (%)									2.5%	80.6%	16.9%	56.7%	43.3%	100.0%	
	Unit Rate	m3								40.43	1,297.25	272.31	913.65	696.35	1,610.00	

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	= 0.32 hr
Water	=	175.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.00 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0203a Concrete (Class A1, 21MPa, max agg. 20mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.86	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,027.50	0.00	7,816.50	5,211.00	13,027.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.08	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	102.20	175.21	840.51	528.04	589.88	1,117.92	Loss 10.0%
W0128	Selected Sand, transported	m3	3.34	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	75.22	119.65	406.33	265.18	336.02	601.20	Loss 10.0%
M01010	Water Supply	m3	1.85	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	122.47	0.00	12.25	110.22	122.47	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		32.88	147.97	147.97	164.41	164.41	328.82	2.0%
	Total									398.96	13,709.61	2,661.49	9,543.86	7,226.20	16,770.05	
	Components (%)									2.4%	81.8%	15.9%	56.9%	43.1%	100.0%	
	Unit Rate	m3								39.97	1,373.41	266.62	956.09	723.91	1,680.00	

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	= 0.32 hr
Water	=	185.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.00 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0204 Concrete (Class C, 21MPa, max agg. 12mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	92.93	159.32	764.29	480.16	536.38	1,016.54	Loss 10.0%
W0128	Selected Sand, transported	m3	3.57	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	80.39	127.89	434.31	283.45	359.15	642.60	Loss 10.0%
M01010	Water Supply	m3	1.90	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	125.78	0.00	12.58	113.20	125.78	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		33.44	150.50	150.50	167.22	167.22	334.44	2.0%
	Total									395.43	14,045.29	2,615.78	9,719.87	7,336.63	17,056.50	
	Components (%)									2.3%	82.3%	15.3%	57.0%	43.0%	100.0%	
	Unit Rate	m3								39.64	1,408.11	262.24	974.47	735.53	1,710.00	

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

Cement	=	388.00 kg/m3	Plant Daily Operation	= 5.53 hr
Aggregate (max 20mm)	=	894.00 kg/m3	Concrete Mixer Truck Capacity	= 4.30 m3
Sand	=	846.00 kg/m3	Transportation Time = 2·L/V + .16	= 0.32 hr
Water	=	190.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.00 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0205 Concrete (Class AA1, 28MPa, max agg.25mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
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	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,690.00	0.00	7,614.00	5,076.00	12,690.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.70	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	117.73	201.83	968.24	608.28	679.52	1,287.80	Loss 10.0%
W0128	Selected Sand, transported	m3	2.76	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	62.15	98.88	335.77	219.13	277.67	496.80	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	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		34.51	155.31	155.31	172.56	172.56	345.12	2.0%
	Total									403.06	14,472.27	2,725.99	10,156.50	7,444.81	17,601.31	
	Components (%)									2.3%	82.2%	15.5%	57.7%	42.3%	100.0%	
	Unit Rate	m3								40.30	1,447.12	272.58	1,015.57	744.43	1,760.00	

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

Cement	=	369.00 kg/m3	Plant Daily Operation	= 5.53 hr
Aggregate (max 25mm)	=	1,132.00 kg/m3	Concrete Mixer Truck Capacity	= 4.30 m3
Sand	=	655.00 kg/m3	Transportation Time = 2·L/V + .16	= 0.32 hr
Water	=	155.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.92 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0206 Concrete (Class AA2, 28MPa, max agg.20mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	4.01	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,533.75	0.00	8,120.25	5,413.50	13,533.75	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.15	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	103.95	178.22	854.93	537.10	600.00	1,137.10	Loss 10.0%
W0128	Selected Sand, transported	m3	3.00	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	67.56	107.47	364.97	238.19	301.81	540.00	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		36.14	162.65	162.65	180.72	180.72	361.44	2.0%
	Total									396.32	15,388.12	2,649.23	10,670.66	7,763.01	18,433.66	
	Components (%)									2.1%	83.5%	14.4%	57.9%	42.1%	100.0%	
	Unit Rate	m3								39.56	1,536.00	264.44	1,065.12	774.88	1,840.00	

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

Cement	=	393.00 kg/m3	Plant Daily Operation	= 5.53 hr
Aggregate (max 20mm)	=	999.00 kg/m3	Concrete Mixer Truck Capacity	= 4.30 m3
Sand	=	713.00 kg/m3	Transportation Time = 2·L/V + .16	= 0.32 hr
Water	=	165.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.98 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0208 Concrete (Class PP, 41MPa, max agg.20mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,166.25	0.00	9,699.75	6,466.50	16,166.25	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	3.98	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	99.69	170.92	819.91	515.10	575.42	1,090.52	Loss 10.0%
W0128	Selected Sand, transported	m3	3.01	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	67.78	107.83	366.18	238.98	302.82	541.80	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		41.79	188.05	188.05	208.94	208.94	417.88	2.0%
	Total									397.93	18,273.17	2,640.82	12,425.01	8,886.91	21,311.92	
	Components (%)									1.9%	85.7%	12.4%	58.3%	41.7%	100.0%	
	Unit Rate	m3								39.77	1,826.30	263.93	1,241.81	888.19	2,130.00	

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	= 0.32 hr
Water	=	155.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	1.18 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0211 Concrete (for PCC Pavement, 24.1MPa, max agg.50mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	3.06	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.50	0.00	6,196.50	4,131.00	10,327.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.62	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	140.77	241.34	1,157.76	727.35	812.53	1,539.88	Loss 10.0%
W0128	Selected Sand, transported	m3	2.41	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	54.27	86.34	293.19	191.35	242.45	433.80	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		29.73	133.79	133.79	148.65	148.65	297.31	2.0%
	Total									413.44	11,897.84	2,851.42	8,662.15	6,500.55	15,162.70	
	Components (%)									2.7%	78.5%	18.8%	57.1%	42.9%	100.0%	
	Unit Rate	m3								41.45	1,192.71	285.84	868.35	651.65	1,520.00	

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	= 0.32 hr
Water	=	135.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.75 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0215 Concrete (for RCPC, 25MPa, max agg.20mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	3.74	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	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	105.20	180.36	865.23	543.57	607.23	1,150.80	Loss 10.0%
W0128	Selected Sand, transported	m3	3.04	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	68.46	108.91	369.83	241.37	305.83	547.20	Loss 10.0%
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	109.23	0.00	10.92	98.31	109.23	
M03401	Admixture	kg	9.38	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,106.84	0.00	774.79	332.05	1,106.84	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		34.22	153.98	153.98	171.09	171.09	342.17	2.0%
	Total									396.54	14,398.62	2,655.72	10,072.71	7,378.18	17,450.88	
	Components (%)									2.3%	82.5%	15.2%	57.7%	42.3%	100.0%	
	Unit Rate	m3								39.77	1,443.91	266.32	1,010.11	739.89	1,750.00	

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

Cement	=	367.00 kg/m3	Plant Daily Operation	= 5.53 hr
Aggregate (max 20mm)	=	1,012.00 kg/m3	Concrete Mixer Truck Capacity	= 4.30 m3
Sand	=	722.00 kg/m3	Transportation Time = 2·L/V + .16	= 0.32 hr
Water	=	165.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	0.92 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0216 Concrete (for RCPC, 32MPa, max agg. 20mm) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	4.43	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	14,951.25	0.00	8,970.75	5,980.50	14,951.25	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.06	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	101.70	174.35	836.39	525.45	586.99	1,112.44	Loss 10.0%
W0128	Selected Sand, transported	m3	2.95	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	66.43	105.68	358.89	234.22	296.78	531.00	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	11.12	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	1,312.16	0.00	918.51	393.65	1,312.16	Loss 2.0%
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	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	0.74	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	61.80	70.39	726.21	439.89	418.51	858.40	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		39.18	176.29	176.29	195.88	195.88	391.76	2.0%
	Total									395.97	16,945.77	2,638.25	11,613.21	8,366.77	19,979.98	
	Components (%)									2.0%	84.8%	13.2%	58.1%	41.9%	100.0%	
	Unit Rate	m3								39.64	1,696.27	264.09	1,162.48	837.52	2,000.00	

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	= 0.32 hr
Water	=	155.00 kg/m3	L : Transportation Distance	= 2.00 km
Admixture	=	1.09 kg/m3	V : Transportation Velocity	= 25.00 km/hr

W0221 Mortar (1:3) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	Loss 2.0%
W0128	Selected Sand, transported	m3	6.11	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	137.59	218.89	743.32	485.11	614.69	1,099.80	Loss 10.0%
M01010	Water Supply	m3	2.17	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	143.65	0.00	14.37	129.29	143.65	
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.10	0.0%	5.1%	94.9%	54.9%	45.1%	700.00	0.00	3.57	66.43	38.41	31.59	70.00	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		18.10	81.46	81.46	90.52	90.52	181.03	1.0%
	Total									306.50	17,066.32	891.21	10,611.65	7,672.38	18,284.03	
	Components (%)									1.7%	93.4%	4.9%	58.0%	42.0%	100.0%	
	Unit Rate	m3								30.68	1,710.12	89.20	1,062.09	767.91	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

W0222 Mortar (1:2) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25	Loss 2.0%
W0128	Selected Sand, transported	m3	7.88	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	177.45	282.30	958.65	625.64	792.76	1,418.40	Loss 10.0%
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	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%		23.26	104.65	104.65	116.28	116.28	232.56	1.0%
	Total									351.51	22,007.13	1,129.73	13,657.62	9,830.75	23,488.37	
	Components (%)									1.5%	93.7%	4.8%	58.1%	41.9%	100.0%	
	Unit Rate	m3								35.17	2,201.60	113.03	1,366.44	983.56	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	=	1,869.00 kg/m3
Water	=	280.00 kg/m3

W0225 Grout (non-shrink) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
M03011	Portland Cement, ordinary	t	6.35	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	21,431.25	0.00	12,858.75	8,572.50	21,431.25	Loss 2.0%
W0128	Selected Sand, transported	m3	5.25	12.5%	19.9%	67.6%	44.1%	55.9%	180.00	118.23	188.08	638.69	416.83	528.17	945.00	Loss 10.0%
M03402	Non-shrink Admixture	kg	19.06	0.0%	100.0%	0.0%	70.0%	30.0%	392.00	0.00	7,471.52	0.00	5,230.06	2,241.46	7,471.52	Loss 2.0%
M01010	Water Supply	m3	2.80	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	185.36	0.00	18.54	166.82	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%		30.25	136.14	136.14	151.27	151.27	302.54	1.0%
	Total									299.28	29,415.92	841.27	18,713.86	11,842.61	30,556.47	
	Components (%)									1.0%	96.3%	2.8%	61.2%	38.8%	100.0%	
	Unit Rate	m3								29.97	2,945.78	84.25	1,874.05	1,185.95	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

W0231 Concrete Pouring by Pump Vehicle (plain concrete) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	900.98	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	2.0%
	Total									400.00	4.17	1,723.85	923.93	1,204.10	2,128.03	
	Components (%)									18.8%	0.2%	81.0%	43.4%	56.6%	100.0%	
	Unit Rate	m3								40.04	0.42	172.55	92.48	120.52	213.00	

Miscellaneous covers the cost for vibrator, generator, etc.

W0232 Concrete Pouring by Pump Vehicle (reinforced concrete) Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	50.49	2.0%
	Total									400.00	5.05	2,169.74	1,162.76	1,412.02	2,574.79	
	Components (%)									15.5%	0.2%	84.3%	45.2%	54.8%	100.0%	
	Unit Rate	m3								39.93	0.50	216.57	116.06	140.94	257.00	

Miscellaneous covers the cost for vibrator, generator, etc.

W0233 Concrete Pouring by Pump Vehicle for PC box girder cantilever construction Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	926.90	0.00	0.00	0.00	926.90	926.90	
L020	Unskilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	439.60	0.00	0.00	0.00	439.60	439.60	
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	1.60	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00	0.00	0.00	3,504.00	1,872.16	1,631.84	3,504.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	9.97	89.71	54.82	44.85	99.67	2.0%
	Total									1,479.70	9.97	3,593.71	1,926.98	3,156.39	5,083.37	
	Components (%)									29.1%	0.2%	70.7%	37.9%	62.1%	100.0%	
	Unit Rate	m3								147.87	1.00	359.13	192.57	315.43	508.00	

Miscellaneous covers the cost for vibrator, generator, etc.

W0234 Concrete Pouring by Truck Crane — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	986.97	2,033.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	5.50	49.52	30.26	24.76	55.02	2.0%
	Total									858.48	162.04	1,785.70	1,076.29	1,729.93	2,806.22	
	Components (%)									30.6%	5.8%	63.6%	38.4%	61.6%	100.0%	
	Unit Rate	m3								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						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	1.60	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	m3								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						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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 (%)									70.9%	8.7%	20.4%	16.0%	84.0%	100.0%	
	Unit Rate	m3								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						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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%	7.6%	17.8%	14.0%	86.0%	100.0%	
	Unit Rate	m3								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 H<4m) — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
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%	60.0%	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	652.25	21,537.85	22,190.10	
	Components (%)									58.9%	40.4%	0.8%	2.9%	97.1%	100.0%	
	Unit Rate	m2								130.67	89.59	1.74	6.53	215.47	222.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	439.89	2.0%
	Total									13,300.40	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	m2								132.80	89.44	1.76	6.54	217.46	224.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	13.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,082.00	0.00	0.00	0.00	4,082.00	4,082.00	
M05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,694.30	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	5,217.68	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	24,398.61	28,253.90	
	Components (%)									47.1%	33.6%	19.3%	13.6%	86.4%	100.0%	
	Unit Rate	m2								133.39	95.12	54.48	38.62	244.38	283.00	

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

W0243 Formwork (lean concrete) — Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	
	Components (%)									41.3%	58.0%	0.8%	3.8%	96.2%	100.0%	
	Unit Rate	m2								62.70	88.10	1.19	5.81	146.19	152.00	

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

W0244 Formwork for Bridge Superstructures — Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total	Component (PP)					Total	
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(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	
L005	Carpenter	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	1,154.40	0.00	0.00	0.00	1,154.40	1,154.40	
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	
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	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.57	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	42.08	46.96	520.85	313.81	296.09	609.90	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	41.69	27.80	34.75	34.75	69.49	2.0%
	Total									2,044.68	950.66	548.65	391.65	3,152.34	3,543.99	
	Components (%)									57.7%	26.8%	15.5%	11.1%	88.9%	100.0%	
	Unit Rate	m2								204.24	94.96	54.80	39.12	314.88	354.00	

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

W0245 Formwork Installation and Removal for PC Box Girder (Cantilever Construction) Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	328.28	0.00	0.00	0.00	328.28	328.28	
L005	Carpenter	md	4.12	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	1,829.28	0.00	0.00	0.00	1,829.28	1,829.28	
L020	Unskilled Labor	md	2.28	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	715.92	0.00	0.00	0.00	715.92	715.92	
M05001	Formwork Lumber, use 4 times	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	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.80	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	59.06	65.91	731.02	440.43	415.57	856.00	
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	55.0%	45.0%		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	4,683.31	
	Components (%)									62.6%	21.6%	15.8%	11.4%	88.6%	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: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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%	16.00	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	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	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	769.49	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%	46.0%	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: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	808.01	1,212.01	1,111.01	909.01	2,020.02	9.0%
	Total									3,538.30	19,049.56	1,876.87	13,328.43	11,136.29	24,464.72	
	Components (%)									14.5%	77.9%	7.7%	54.5%	45.5%	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 φ460 (18") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	1.03	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	40.96	1,487.23	274.31	1,040.41	762.09	1,802.50	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	0.76	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	173.30	1,230.65	1,028.25	2,258.90	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.12	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	8.85	5.41	43.94	27.38	30.82	58.20	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.17	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	10.25	18.35	73.91	52.05	50.46	102.51	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		80.75	242.24	484.48	363.36	444.11	807.47	18.0%
	Total									511.00	3,512.97	1,269.43	2,831.67	2,461.73	5,293.40	
	Components (%)									9.7%	66.4%	24.0%	53.5%	46.5%	100.0%	
	Unit Rate	m								51.07	351.07	126.86	282.98	246.02	529.00	

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 φ610 (24") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	1.60	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	63.63	2,310.26	426.11	1,616.17	1,183.83	2,800.00	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	160.70	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	0.26	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	15.68	28.06	113.04	79.61	77.17	156.78	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		133.04	399.13	798.26	598.70	731.74	1,330.44	18.0%
	Total									862.66	5,812.55	2,046.56	4,663.65	4,058.12	8,721.77	
	Components (%)									9.9%	66.6%	23.5%	53.5%	46.5%	100.0%	
	Unit Rate	m								86.25	581.14	204.61	466.27	405.73	872.00	

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 φ760 (30") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	2.30	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	91.46	3,321.00	612.54	2,323.24	1,701.76	4,025.00	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	251.14	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	8.15	9.47	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	875.22	4,712.03	464.25	3,296.87	2,754.63	6,051.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.37	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	22.31	39.94	160.86	113.29	109.82	223.11	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		198.24	594.73	1,189.45	892.09	1,090.33	1,982.42	18.0%
	Total									1,303.30	8,681.27	3,011.27	6,947.27	6,048.58	12,995.85	
	Components (%)									10.0%	66.8%	23.2%	53.5%	46.5%	100.0%	
	Unit Rate	m								130.37	868.40	301.22	694.95	605.05	1,300.00	

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

W0306 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ910 (36") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	3.10	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	123.27	4,476.13	825.59	3,131.33	2,293.67	5,425.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.04	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	121.37	1.53	658.37	352.82	428.46	781.28	
W0237	Concrete Curing (reinforced concrete)	m3	3.04	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	9.55	0.97	2.27	1.79	11.01	12.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	415.30	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,471.57	7,922.69	780.59	5,543.28	4,631.57	10,174.85	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.36	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	26.54	16.24	131.82	82.13	92.47	174.60	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.50	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	30.15	53.97	217.38	153.10	148.40	301.50	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		303.66	910.98	1,821.96	1,366.47	1,670.13	3,036.61	18.0%
	Total									2,066.12	13,382.52	4,437.99	10,630.92	9,275.72	19,906.64	
	Components (%)									10.5%	67.2%	22.3%	53.4%	46.6%	100.0%	
	Unit Rate	m								208.54	1,337.81	443.65	1,062.74	927.26	1,990.00	

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

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1070 (42") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	4.05	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	161.05	5,847.85	1,078.59	4,090.93	2,996.57	7,087.50	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	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	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	545.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,934.34	10,414.15	1,026.06	7,286.48	6,088.07	13,374.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.47	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	34.65	21.20	172.10	107.23	120.72	227.95	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.65	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	39.20	70.16	282.60	199.02	192.93	391.95	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		398.14	1,194.42	2,388.85	1,791.63	2,189.78	3,981.41	18.0%
	Total									2,738.35	17,551.06	5,810.95	13,938.39	12,161.97	26,100.36	
	Components (%)									10.5%	67.2%	22.3%	53.4%	46.6%	100.0%	
	Unit Rate	m								273.83	1,755.08	581.09	1,393.82	1,216.18	2,610.00	

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1220 (48") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	5.13	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	204.00	7,407.28	1,366.22	5,181.84	3,795.66	8,977.50	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.53	1,089.35	583.78	708.93	1,292.71	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	15.81	1.61	3.76	2.96	18.22	21.18	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	684.40	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,425.10	13,056.32	1,286.38	9,135.13	7,632.67	16,767.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.59	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	43.49	26.61	216.04	134.61	151.54	286.15	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.83	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	50.05	89.59	360.85	254.14	246.35	500.49	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		501.22	1,503.67	3,007.35	2,255.51	2,756.74	5,012.25	18.0%
	Total									3,440.50	22,087.62	7,329.96	17,547.97	15,310.11	32,858.08	
	Components (%)									10.5%	67.2%	22.3%	53.4%	46.6%	100.0%	
	Unit Rate	m								344.49	2,211.58	733.93	1,757.04	1,532.96	3,290.00	

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

W0309 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ1520 (60") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0215	Concrete (for RCPC, 25MPa, max	m3	7.62	2.3%	82.5%	15.2%	57.7%	42.3%	1,750.00	303.02	11,002.63	2,029.36	7,697.00	5,638.00	13,335.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	23.47	2.39	5.59	4.39	27.06	31.45	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,025.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	3,635.17	19,571.12	1,928.25	13,693.36	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	1.23	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	74.17	132.76	534.76	376.62	365.07	741.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		748.61	2,245.82	4,491.64	3,368.73	4,117.34	7,486.07	18.0%
	Total									5,147.55	32,998.19	10,929.61	26,207.84	22,867.51	49,075.35	
	Components (%)									10.5%	67.2%	22.3%	53.4%	46.6%	100.0%	
	Unit Rate	m								515.01	3,301.48	1,093.51	2,622.10	2,287.90	4,910.00	

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

W0313 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ460 (18") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	0.80	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	31.71	1,357.02	211.27	929.99	670.01	1,600.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	0.78	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	31.14	0.39	168.92	90.53	109.93	200.46	
W0237	Concrete Curing (reinforced concrete)	m3	0.78	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	2.45	0.25	0.58	0.46	2.82	3.28	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	122.70	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	434.77	2,340.75	230.62	1,637.76	1,368.39	3,006.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	6.63	4.06	32.96	20.53	23.12	43.65	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.13	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	7.84	14.03	56.52	39.80	38.59	78.39	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		88.77	266.32	532.65	399.49	488.26	887.75	18.0%
	Total									603.32	3,982.83	1,233.53	3,118.55	2,701.12	5,819.68	
	Components (%)									10.4%	68.4%	21.2%	53.6%	46.4%	100.0%	
	Unit Rate	m								60.34	398.30	123.36	311.87	270.13	582.00	

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ610 (24") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	1.33	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	52.72	2,256.04	351.24	1,546.10	1,113.90	2,660.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.30	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	51.90	0.66	281.54	150.88	183.22	334.10	
W0237	Concrete Curing (reinforced concrete)	m3	1.30	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	4.08	0.42	0.97	0.76	4.71	5.47	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	199.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	706.91	3,805.87	374.97	2,662.86	2,224.89	4,887.75	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.15	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	11.06	6.77	54.93	34.22	38.53	72.75	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.21	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	12.66	22.67	91.30	64.30	62.33	126.63	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		145.56	436.68	873.36	655.02	800.58	1,455.61	18.0%
	Total									984.89	6,529.10	2,028.32	5,114.15	4,428.16	9,542.31	
	Components (%)									10.3%	68.4%	21.3%	53.6%	46.4%	100.0%	
	Unit Rate	m								98.47	652.75	202.78	511.29	442.71	954.00	

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

W0315 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ760 (30") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	1.93	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	76.50	3,273.81	509.69	2,243.60	1,616.40	3,860.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.89	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	75.46	0.95	409.32	219.35	266.38	485.73	
W0237	Concrete Curing (reinforced concrete)	m3	1.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	5.94	0.61	1.41	1.11	6.85	7.96	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	272.60	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	965.93	5,200.40	512.37	3,638.57	3,040.13	6,678.70	
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	0.31	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	18.69	33.46	134.78	94.92	92.01	186.93	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		203.87	611.61	1,223.21	917.41	1,121.28	2,038.68	18.0%
	Total									1,362.61	9,130.75	2,871.34	7,165.15	6,199.55	13,364.70	
	Components (%)									10.2%	68.3%	21.5%	53.6%	46.4%	100.0%	
	Unit Rate	m								136.62	915.49	287.89	718.41	621.59	1,340.00	

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 φ910 (36") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	2.57	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	101.87	4,359.43	678.71	2,987.59	2,152.41	5,140.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	2.52	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	100.61	1.27	545.76	292.47	355.17	647.64	
W0237	Concrete Curing (reinforced concrete)	m3	2.52	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	7.92	0.81	1.88	1.48	9.13	10.61	
W0252	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	5,455.73	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	13.53	109.85	68.44	77.06	145.50	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.42	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	25.33	45.33	182.60	128.60	124.66	253.26	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		327.28	981.85	1,963.70	1,472.78	1,800.06	3,272.83	18.0%
	Total									2,318.55	14,734.70	4,401.99	11,481.03	9,974.21	21,455.24	
	Components (%)									10.8%	68.7%	20.5%	53.5%	46.5%	100.0%	
	Unit Rate	m								232.34	1,476.54	441.12	1,150.50	999.50	2,150.00	

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

W0317 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication ϕ1070 (42") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	3.32	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	131.59	5,631.63	876.78	3,859.45	2,780.55	6,640.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.25	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	129.76	1.64	703.85	377.20	458.05	835.25	
W0237	Concrete Curing (reinforced concrete)	m3	3.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	10.21	1.04	2.43	1.91	11.77	13.68	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	609.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,157.93	11,617.91	1,144.66	8,128.72	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	0.54	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	32.56	58.29	234.77	165.34	160.28	325.62	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		412.55	1,237.64	2,475.29	1,856.47	2,269.02	4,125.48	18.0%
	Total									2,902.61	18,565.29	5,576.93	14,475.78	12,569.05	27,044.83	
	Components (%)									10.7%	68.6%	20.6%	53.5%	46.5%	100.0%	
	Unit Rate	m								289.78	1,853.45	556.77	1,445.18	1,254.82	2,700.00	

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 ϕ1220 (48") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	4.30	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	170.44	7,293.98	1,135.58	4,998.68	3,601.32	8,600.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	4.22	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	168.49	2.13	913.93	489.77	594.77	1,084.54	
W0237	Concrete Curing (reinforced concrete)	m3	4.22	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	13.26	1.35	3.16	2.48	15.29	17.77	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	788.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,793.97	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	128.43	242.50	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.70	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	42.21	75.56	304.33	214.33	207.77	422.10	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		534.33	1,603.00	3,206.00	2,404.50	2,938.83	5,343.33	18.0%
	Total									3,759.56	24,040.80	7,228.13	18,748.47	16,280.02	35,028.49	
	Components (%)									10.7%	68.6%	20.6%	53.5%	46.5%	100.0%	
	Unit Rate	m								375.65	2,402.13	722.23	1,873.32	1,626.68	3,500.00	

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 ϕ1520 (60") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	6.27	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	248.52	10,635.64	1,655.84	7,288.78	5,251.22	12,540.00	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	1.01	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	60.90	109.02	439.11	309.25	299.78	609.03	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		795.04	2,385.13	4,770.25	3,577.69	4,372.73	7,950.42	18.0%
	Total									5,625.94	35,798.41	10,695.09	27,891.69	24,227.75	52,119.44	
	Components (%)									10.8%	68.7%	20.5%	53.5%	46.5%	100.0%	
	Unit Rate	m								562.38	3,578.51	1,069.11	2,788.13	2,421.87	5,210.00	

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 ϕ460 (18") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	1.03	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	40.83	1,747.16	272.01	1,197.36	862.64	2,060.00	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	0.17	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	10.25	18.35	73.91	52.05	50.46	102.51	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		114.49	343.46	686.93	515.19	629.68	1,144.88	18.0%
	Total									778.47	5,133.21	1,593.63	4,021.40	3,483.91	7,505.31	
	Components (%)									10.4%	68.4%	21.2%	53.6%	46.4%	100.0%	
	Unit Rate	m								77.90	513.64	159.46	402.39	348.61	751.00	

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 ϕ610 (24") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	1.60	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	63.42	2,714.04	422.54	1,859.98	1,340.02	3,200.00	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	0.26	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	15.68	28.06	113.04	79.61	77.17	156.78	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		170.10	510.30	1,020.60	765.45	935.55	1,701.00	18.0%
	Total									1,139.39	7,619.01	2,392.57	5,977.84	5,173.14	11,150.98	
	Components (%)									10.2%	68.3%	21.5%	53.6%	46.4%	100.0%	
	Unit Rate	m								114.44	765.25	240.31	600.41	519.59	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 ϕ760 (30") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	2.30	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	91.16	3,901.43	607.40	2,673.71	1,926.29	4,600.00	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	8.15	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	4,606.27	3,848.68	8,454.95	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.37	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	22.31	39.94	160.86	113.29	109.82	223.11	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		251.85	755.56	1,511.12	1,133.34	1,385.20	2,518.54	18.0%
	Total									1,704.22	11,293.99	3,512.20	8,848.40	7,662.02	16,510.42	
	Components (%)									10.3%	68.4%	21.3%	53.6%	46.4%	100.0%	
	Unit Rate	m								170.31	1,128.69	351.00	884.28	765.72	1,650.00	

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

W0334 Precast Reinforced Concrete Pipe (Extra Strength), fabrication ϕ910 (36") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate – Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount – Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	3.10	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	122.87	5,258.45	818.68	3,603.70	2,596.30	6,200.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.04	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	121.37	1.53	658.37	352.82	428.46	781.28	
W0237	Concrete Curing (reinforced concrete)	m3	3.04	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	9.55	0.97	2.27	1.79	11.01	12.80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	604.50	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	2,141.98	11,532.06	1,136.20	8,068.66	6,741.59	14,810.25	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	0.36	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	26.58	26.26	263.59	160.29	156.15	316.44	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.50	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	30.15	53.97	217.38	153.10	148.40	301.50	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		403.60	1,210.80	2,421.61	1,816.20	2,219.80	4,036.01	18.0%
	Total									2,856.12	18,084.06	5,518.11	14,156.55	12,301.72	26,458.28	
	Components (%)									10.8%	68.3%	20.9%	53.5%	46.5%	100.0%	
	Unit Rate	m								286.06	1,811.26	552.68	1,417.89	1,232.11	2,650.00	

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

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	4.05	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	160.53	6,869.91	1,069.56	4,708.06	3,391.94	8,100.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	158.50	2.00	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	
W0252	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	0.65	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	39.20	70.16	282.60	199.02	192.93	391.95	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		605.40	1,816.21	3,632.43	2,724.32	3,329.72	6,054.04	18.0%
	Total									4,437.27	27,241.33	8,009.02	21,210.94	18,476.68	39,687.62	
	Components (%)									11.2%	68.6%	20.2%	53.4%	46.6%	100.0%	
	Unit Rate	m								443.87	2,724.98	801.15	2,121.76	1,848.24	3,970.00	

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

W0336 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1220 (48") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	5.13	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	203.34	8,701.89	1,354.78	5,963.55	4,296.45	10,260.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	200.83	2.53	1,089.35	583.78	708.93	1,292.71	
W0237	Concrete Curing (reinforced concrete)	m3	5.03	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	15.81	1.61	3.76	2.96	18.22	21.18	
W0252	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	0.83	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	50.05	89.59	360.85	254.14	246.35	500.49	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		659.87	1,979.60	3,959.21	2,969.41	3,629.27	6,598.68	18.0%
	Total									4,654.13	29,557.64	9,046.26	23,147.92	20,110.10	43,258.02	
	Components (%)									10.8%	68.3%	20.9%	53.5%	46.5%	100.0%	
	Unit Rate	m								465.86	2,958.63	905.50	2,317.04	2,012.96	4,330.00	

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

W0337 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1520 (60") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0216	Concrete (for RCPC, 32MPa, max	m3	7.62	2.0%	84.8%	13.2%	58.1%	41.9%	2,000.00	302.03	12,925.61	2,012.36	8,858.13	6,381.87	15,240.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Concrete Curing (reinforced concrete)	m3	7.47	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	23.47	2.39	5.59	4.39	27.06	31.45	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,824.80	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 16-20t	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	1.23	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	74.17	132.76	534.76	376.62	365.07	741.69	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		1,144.48	3,433.44	6,866.87	5,150.15	5,294.63	11,444.78	18.0%
	Total									8,373.36	51,382.23	15,271.33	40,097.53	34,929.38	75,026.91	
	Components (%)									11.2%	68.5%	20.4%	53.4%	46.6%	100.0%	
	Unit Rate	m								837.04	5,136.38	1,526.68	4,008.31	3,491.69	7,500.00	

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

W0341 Precast Concrete Pipe Laying φ460 (18") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	168.06	102.84	834.88	520.18	585.62	1,105.80	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		6.55	58.91	65.46	58.91	72.00	130.91	7.0%
	Total									939.03	161.75	900.34	579.09	1,422.03	2,001.11	
	Components (%)									46.9%	8.1%	45.0%	28.9%	71.1%	100.0%	
	Unit Rate	m								93.85	16.17	89.98	57.88	142.12	200.00	

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

W0342 Precast Concrete Pipe Laying φ610 (24") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		7.98	71.81	79.79	71.81	87.77	159.59	7.0%
	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	m								111.18	20.09	112.73	72.45	171.55	244.00	

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

W0343 Precast Concrete Pipe Laying φ760 (30") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	1,663.55	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		9.84	88.52	98.36	88.52	108.19	196.71	7.0%
	Total									1,409.30	243.23	1,354.34	871.07	2,135.79	3,006.86	
	Components (%)									46.9%	8.1%	45.0%	29.0%	71.0%	100.0%	
	Unit Rate	m								141.08	24.35	135.57	87.20	213.80	301.00	

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

W0344 Precast Concrete Pipe Laying φ910 (36") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L019	Skilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	282.10	0.00	0.00	0.00	282.10	282.10	
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	596.60	0.00	0.00	0.00	596.60	596.60	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.00	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	295.34	291.83	2,928.83	1,780.97	1,735.03	3,516.00	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		16.77	150.91	167.68	150.91	184.45	335.36	7.0%
	Total									1,587.01	442.74	3,096.51	1,931.88	3,194.38	5,126.26	
	Components (%)									31.0%	8.6%	60.4%	37.7%	62.3%	100.0%	
	Unit Rate	m								158.82	44.31	309.88	193.33	319.67	513.00	

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

W0345 Precast Concrete Pipe Laying φ1070 (42") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	722.20	0.00	0.00	0.00	722.20	722.20	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.57	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	337.43	333.41	3,346.19	2,034.75	1,982.28	4,017.03	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		19.30	173.70	193.01	173.70	212.31	386.01	7.0%
	Total									1,854.13	507.12	3,539.19	2,208.46	3,691.98	5,900.44	
	Components (%)									31.4%	8.6%	60.0%	37.4%	62.6%	100.0%	
	Unit Rate	m								185.40	50.71	353.89	220.83	369.17	590.00	

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

W0346 Precast Concrete Pipe Laying ϕ1220 (48") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	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	379.52	375.00	3,763.54	2,288.54	2,229.52	4,518.06	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		21.61	194.52	216.13	194.52	237.74	432.26	7.0%
	Total									2,058.23	569.52	3,979.67	2,483.06	4,124.36	6,607.42	
	Components (%)									31.2%	8.6%	60.2%	37.6%	62.4%	100.0%	
	Unit Rate	m								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 ϕ1520 (60") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	463.65	517.41	5,738.54	3,457.40	3,262.20	6,719.60	
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%		30.55	274.92	305.46	274.92	336.01	610.93	7.0%
	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	m								250.25	79.25	604.50	373.29	560.71	934.00	

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

W0351 Precast Concrete Pipe Removal ϕ460 (18") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		5.59	5.59	44.73	25.16	30.75	55.91	10.0%
	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	m								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 ϕ610 (24") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	84.90	0.00	0.00	0.00	84.90	84.90	
L019	Skilled Labor	md	0.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	60.45	0.00	0.00	0.00	60.45	60.45	
L020	Unskilled Labor	md	0.39	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	122.46	0.00	0.00	0.00	122.46	122.46	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	63.40	38.79	314.91	196.21	220.89	417.10	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		6.85	6.85	54.79	30.82	37.67	68.49	10.0%
	Total									338.06	45.64	369.70	227.03	526.37	753.40	
	Components (%)									44.9%	6.1%	49.1%	30.1%	69.9%	100.0%	
	Unit Rate	m								33.79	4.56	36.95	22.69	52.61	75.30	

Miscellaneous covers the costs for demolition, disposal, etc.

W0353 Precast Concrete Pipe Removal ϕ760 (30") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	101.88	0.00	0.00	0.00	101.88	101.88	
L019	Skilled Labor	md	0.18	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	72.54	0.00	0.00	0.00	72.54	72.54	
L020	Unskilled Labor	md	0.54	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	169.56	0.00	0.00	0.00	169.56	169.56	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	1.03	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	75.93	46.46	377.16	234.99	264.56	499.55	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		8.44	8.44	67.48	37.96	46.39	84.36	10.0%
	Total									428.35	54.89	444.64	272.95	654.93	927.88	
	Components (%)									46.2%	5.9%	47.9%	29.4%	70.6%	100.0%	
	Unit Rate	m								42.84	5.49	44.47	27.30	65.50	92.80	

Miscellaneous covers the costs for demolition, disposal, etc.

W0354 Precast Concrete Pipe Removal ϕ910 (36") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	118.86	0.00	0.00	0.00	118.86	118.86	
L019	Skilled Labor	md	0.21	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	84.63	0.00	0.00	0.00	84.63	84.63	
L020	Unskilled Labor	md	0.57	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	178.98	0.00	0.00	0.00	178.98	178.98	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.20	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	88.60	87.55	878.65	534.29	520.51	1,054.80	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		14.37	14.37	114.98	64.68	79.05	143.73	10.0%
	Total									485.45	101.92	993.63	598.97	982.03	1,581.00	
	Components (%)									30.7%	6.4%	62.8%	37.9%	62.1%	100.0%	
	Unit Rate	m								48.51	10.19	99.30	59.86	98.14	158.00	

Miscellaneous covers the costs for demolition, disposal, etc.

W0355 Precast Concrete Pipe Removal ϕ1070 (42") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		16.53	16.53	132.28	74.41	90.94	165.35	10.0%
	Total									566.91	116.49	1,135.40	684.39	1,134.41	1,818.80	
	Components (%)									31.2%	6.4%	62.4%	37.6%	62.4%	100.0%	
	Unit Rate	m								56.73	11.66	113.62	68.48	113.52	182.00	

Miscellaneous covers the costs for demolition, disposal, etc.

W0356 Precast Concrete Pipe Removal ϕ1220 (48") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	Truck Crane, Hydraulic 11-15t	hr	1.54	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	113.71	112.35	1,127.60	685.67	667.99	1,353.66	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		18.51	18.51	148.06	83.29	101.79	185.08	10.0%
	Total									629.35	130.86	1,275.66	768.96	1,266.91	2,035.87	
	Components (%)									30.9%	6.4%	62.7%	37.8%	62.2%	100.0%	
	Unit Rate	m								63.06	13.11	127.63	77.05	126.95	204.00	

Miscellaneous covers the costs for demolition, disposal, etc.

W0357 Precast Concrete Pipe Removal ϕ1520 (60") Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	186.78	0.00	0.00	0.00	186.78	186.78	
L019	Skilled Labor	md	0.33	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	132.99	0.00	0.00	0.00	132.99	132.99	
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	1.88	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	138.80	154.89	1,717.91	1,035.02	976.58	2,011.60	
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%		26.14	26.14	209.12	117.63	143.77	261.40	10.0%
	Total									767.31	181.03	1,927.02	1,152.65	1,722.72	2,875.37	
	Components (%)									26.7%	6.3%	67.0%	40.1%	59.9%	100.0%	
	Unit Rate	m								76.85	18.13	193.01	115.45	172.55	288.00	

Miscellaneous covers the costs for demolition, disposal, etc.

W0401 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil) Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	4,246.84	9,067.50	
R1001-150	Generator 101-150 kW	day	0.71	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,337.94	1,225.16	1,536.56	1,026.54	2,563.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.79	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	204.09	252.33	3,254.28	1,928.14	1,782.56	3,710.70	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,036.59	2,692.78	15,217.44	9,958.66	9,988.15	19,946.81	
	Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
	Unit Rate	m2								20.32	26.86	151.82	99.35	99.65	199.00	

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

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 = 6.56 hr/day
Sheet Pile width = 0.400 m
Sheet Pile length = 10.000 m

W0402 Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil) Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,714.82	1,570.28	1,969.40	1,315.70	3,285.10	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	261.15	322.87	4,164.08	2,467.19	2,280.91	4,748.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,608.50	3,448.44	19,474.38	12,746.06	12,785.25	25,531.31	
	Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
	Unit Rate	m2								26.05	34.44	194.50	127.30	127.70	255.00	

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

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

W0403 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)					Total (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	1,417.81	1,470.21	2,888.02	
R0401-040	Crawler Crane, 36-40t	hr	3.94	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	284.27	645.37	6,753.36	4,084.60	3,598.40	7,683.00	
R1001-150	Generator 101-150 kW	day	0.60	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,130.65	1,035.35	1,298.50	867.50	2,166.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.36	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	172.63	213.44	2,752.73	1,630.97	1,507.83	3,138.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,722.65	2,278.26	12,886.50	8,431.89	8,455.53	16,887.42	
	Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
	Unit Rate	m2								17.24	22.80	128.96	84.38	84.62	169.00	

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

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

W0406 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)					Total (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%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	791.46	724.74	908.95	607.25	1,516.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.64	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	119.97	148.32	1,912.91	1,133.39	1,047.81	2,181.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,201.15	1,587.06	8,941.90	5,854.92	5,875.19	11,730.11	
	Components (%)									10.2%	13.5%	76.2%	49.9%	50.1%	100.0%	
	Unit Rate	m								11.98	15.83	89.19	58.40	58.60	117.00	

$T_c = (T_s + T_b)/F$

Tc : Construction time per pile = 19.6 min/pile
Ts : Preparation time per pile = 10.00 min/pile
Tb : 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

W0407 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)					Total (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%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	678.39	621.21	779.10	520.50	1,299.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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	

$T_c = (T_s + T_b)/F$

Tc : Construction time per pile = 14.3 min/pile
Ts : Preparation time per pile = 6.00 min/pile
Tb : 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

W0411 Temporary Struts & Supports Installation Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.60	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	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,289.60	0.00	0.00	0.00	1,289.60	1,289.60	
L009	Welder	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	800.00	0.00	0.00	0.00	800.00	800.00	
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	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	9.14	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	674.86	666.83	6,692.37	4,069.51	3,964.55	8,034.06	
R0901-025	Welding Machine 250A	day	1.60	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	374.44	566.36	551.17	389.63	940.80	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	272.47	635.77	499.53	408.71	908.24	7.0%
	Total									4,674.86	1,313.74	7,894.50	5,120.22	8,762.88	13,883.10	
	Components (%)									33.7%	9.5%	56.9%	36.9%	63.1%	100.0%	
	Unit Rate	t								468.06	131.53	790.41	512.64	877.36	1,390.00	

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

W0412 Temporary Struts & Supports Removal Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	806.00	0.00	0.00	0.00	806.00	806.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	628.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	5.71	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	421.60	416.58	4,180.90	2,542.33	2,476.76	5,019.09	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	338.36	413.55	413.55	338.36	751.91	10.0%
	Total									2,921.60	754.94	4,594.45	2,955.88	5,315.12	8,271.00	
	Components (%)									35.3%	9.1%	55.5%	35.7%	64.3%	100.0%	
	Unit Rate	t								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 Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	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	md	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	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	2,500.00	0.00	0.00	0.00	2,500.00	2,500.00	
L020	Unskilled Labor	md	5.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,570.00	0.00	0.00	0.00	1,570.00	1,570.00	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	28.55	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	2,108.02	2,082.92	20,904.51	12,711.65	12,383.80	25,095.45	
R0901-025	Welding Machine 250A	day	5.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	1,170.12	1,769.88	1,722.42	1,217.58	2,940.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	1,402.76	1,714.48	1,714.48	1,402.76	3,117.24	8.0%
	Total									13,038.02	4,655.80	24,388.87	16,148.55	25,934.14	42,082.69	
	Components (%)									31.0%	11.1%	58.0%	38.4%	61.6%	100.0%	
	Unit Rate	t								1,304.34	465.77	2,439.89	1,615.52	2,594.48	4,210.00	

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

W0414 Temporary Struts & Supports Removal Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,641.40	0.00	0.00	0.00	1,641.40	1,641.40	
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,337.40	0.00	0.00	0.00	2,337.40	2,337.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	910.60	0.00	0.00	0.00	910.60	910.60	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	16.56	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	1,222.72	1,208.17	12,125.35	7,373.20	7,183.04	14,556.24	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%		0.00	787.55	962.56	962.56	787.55	1,750.11	9.0%
	Total									6,112.12	1,995.72	13,087.91	8,335.76	12,859.99	21,195.75	
	Components (%)									28.8%	9.4%	61.7%	39.3%	60.7%	100.0%	
	Unit Rate	t								611.34	199.61	1,309.05	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 Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	3.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,329.90	0.00	0.00	0.00	1,329.90	1,329.90	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	345.40	0.00	0.00	0.00	345.40	345.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	6.28	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	463.69	458.17	4,598.26	2,796.12	2,724.00	5,520.12	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,761.59	458.17	4,598.26	2,796.12	5,021.90	7,818.02	
	Components (%)									35.3%	5.9%	58.8%	35.8%	64.2%	100.0%	
	Unit Rate	m2								27.62	4.58	45.99	27.97	50.23	78.20	

W0416 Temporary Deck Plate Removal Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	725.40	0.00	0.00	0.00	725.40	725.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
L020	Unskilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.43	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	253.26	250.24	2,511.47	1,527.18	1,487.79	3,014.97	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,506.66	250.24	2,511.47	1,527.18	2,741.19	4,268.37	
	Components (%)									35.3%	5.9%	58.8%	35.8%	64.2%	100.0%	
	Unit Rate	m2								15.07	2.50	25.12	15.28	27.42	42.70	

W0417 Temporary Deck Plate Support Beam Installation Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L019	Skilled Labor	md	3.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,571.70	0.00	0.00	0.00	1,571.70	1,571.70	
L009	Welder	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,300.00	0.00	0.00	0.00	1,300.00	1,300.00	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	7.42	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	547.86	541.34	5,432.98	3,303.69	3,218.49	6,522.18	
R0901-025	Welding Machine 250A	day	1.30	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	304.23	460.17	447.83	316.57	764.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	339.07	791.16	621.83	508.60	1,130.23	10.0%
	Total									4,563.56	1,184.64	6,684.30	4,373.15	8,059.36	12,432.51	
	Components (%)									36.7%	9.5%	53.8%	35.2%	64.8%	100.0%	
	Unit Rate	t								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 Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	
L009	Welder	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	800.00	0.00	0.00	0.00	800.00	800.00	
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	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	4.57	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	337.43	333.41	3,346.19	2,034.75	1,982.28	4,017.03	
R0901-025	Welding Machine 250A	day	0.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	272.51	635.85	499.59	408.76	908.35	14.0%
	Total									2,808.63	605.92	3,982.03	2,534.35	4,862.23	7,396.58	
	Components (%)									38.0%	8.2%	53.8%	34.3%	65.7%	100.0%	
	Unit Rate	t								280.99	60.62	398.39	253.55	486.45	740.00	

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

W0421 Temporary Access Bridge Superstructure Installation Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0.00	0.00	0.00	735.80	735.80	
L019	Skilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,410.50	0.00	0.00	0.00	1,410.50	1,410.50	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	6.98	4.6%	8.0%	87.4%	52.7%	47.3%	1,560.00	500.88	871.10	9,516.81	5,741.88	5,146.92	10,888.80	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	283.63	661.80	519.98	425.44	945.43	7.0%
	Total									3,118.18	1,154.73	10,178.61	6,261.87	8,189.66	14,451.53	
	Components (%)									21.6%	8.0%	70.4%	43.3%	56.7%	100.0%	
	Unit Rate	t								312.86	115.86	1,021.28	628.29	821.71	1,450.00	

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

W0422 Temporary Access Bridge Superstructure Removal — Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.90	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	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70	765.70	
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	581.37	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	375.26	833.91	9.0%
	Total									2,330.50	831.74	6,937.37	4,292.06	5,807.55	10,099.61	
	Components (%)									23.1%	8.2%	68.7%	42.5%	57.5%	100.0%	
	Unit Rate	t								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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	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	886.60	0.00	0.00	0.00	886.60	886.60	
L009	Welder	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,450.00	0.00	0.00	0.00	1,450.00	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 (%)									36.1%	6.8%	57.1%	35.3%	64.7%	100.0%	
	Unit Rate	m								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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	1.00	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	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,000.00	0.00	0.00	0.00	1,000.00	1,000.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	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%	5.4%	56.5%	34.2%	65.8%	100.0%	
	Unit Rate	m								21.57	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	
LO20	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 (%)									46.2%	7.1%	46.6%	29.9%	70.1%	100.0%	
	Unit Rate	set								1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	

W0432 Temporary Drain Pump Operation — Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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%	56.6%	43.4%	883.00	0.00	186.31	696.69	499.66	383.34	883.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	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 (%)									8.2%	20.8%	71.1%	51.3%	48.7%	100.0%	
	Unit Rate	day								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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	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%	6.8%	87.7%	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%		7.65	61.20	84.15	76.50	76.50	153.00	3.0%
	Total									3,096.53	205.90	1,950.40	1,182.24	4,070.60	5,252.84	
	Components (%)									58.9%	3.9%	37.1%	22.5%	77.5%	100.0%	
	Unit Rate	m3								30.95	2.06	19.49	11.82	40.68	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
M05062	Temporary Frame Support (Portal 1219x1700)	day	17.58	0.0%	100.0%	0.0%	50.0%	50.0%	1.65	0.00	29.01	0.00	14.51	14.51	29.01	
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.59	0.00	41.50	0.00	20.75	20.75	41.50	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	2.82	2.82	2.82	2.82	5.64	8.0%
	Total									0.00	73.33	2.82	38.08	38.08	76.15	
	Components (%)									0.0%	96.3%	3.7%	50.0%	50.0%	100.0%	
	Unit Rate	m3·d								0.00	0.73	0.03	0.38	0.38	0.76	

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

W0451 Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer) — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	2.78	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	179.32	203.77	1,654.64	1,000.39	1,037.35	2,037.74	
R0401-040	Crawler Crane, 36-40t	hr	2.78	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	200.58	455.36	4,765.06	2,882.03	2,538.97	5,421.00	
R1001-200	Generator 151-200 kW	day	0.42	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,055.58	1,162.02	1,317.72	899.88	2,217.60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.67	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	122.16	151.03	1,947.90	1,154.12	1,066.98	2,221.10	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,210.18	1,865.75	9,529.63	6,354.25	6,251.31	12,605.56	
	Components (%)									9.6%	14.8%	75.6%	50.4%	49.6%	100.0%	
	Unit Rate	m								12.10	18.65	95.25	63.51	62.49	126.00	

$Tc = [(0.75 + \gamma \cdot Nmax) \cdot L + \alpha] \cdot K/F$

Tc : Construction time per pile	=	25.0 min/pile	Nmax : Maximum N-value	= 30.00	T : Operation hour per day	= 6.56 hr/day
α : Coefficient	=	3.57	K : Coefficient	= 1.05	Sheet Pile width	= 0.400 m
γ : Coefficient	=	0.02	F : Work factor	= 1.00	Sheet Pile length	= 15.000 m
L : Pile driving length	=	15.00 m				

W0452 Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer) Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	147.16	0.00	0.00	0.00	147.16	147.16	
L019	Skilled Labor	md	0.52	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	209.56	0.00	0.00	0.00	209.56	209.56	
L020	Unskilled Labor	md	0.26	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	81.64	0.00	0.00	0.00	81.64	81.64	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.71	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	110.30	125.34	1,017.79	615.35	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	815.73	557.07	1,372.80	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	75.34	93.15	1,201.40	711.82	658.08	1,369.90	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									747.38	1,152.05	5,869.56	3,915.65	3,853.34	7,768.99	
	Components (%)									9.6%	14.8%	75.6%	50.4%	49.6%	100.0%	
	Unit Rate	m								7.47	11.52	58.70	39.16	38.54	77.70	

Tc = [(0.75 + γ·Nmax)·L + α]·K/F

Tc : Construction time per pile	=	15.4 min/pile	Nmax : Maximum N-value	= 30.00	T : Operation hour per day	= 6.56 hr/day
α : Coefficient	=	3.43	K : Coefficient	= 1.05	Sheet Pile width	= 0.400 m
γ : Coefficient	=	0.00	F : Work factor	= 1.00	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 Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	157.00	0.00	0.00	0.00	157.00	157.00	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	3.27	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	210.93	239.69	1,946.29	1,176.71	1,220.20	2,396.91	
R0401-040	Crawler Crane, 36-40t	hr	3.27	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	235.93	535.63	5,604.94	3,390.01	2,986.49	6,376.50	
R1001-200	Generator 151-200 kW	day	0.50	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	1,256.64	1,383.36	1,568.71	1,071.29	2,640.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.96	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	143.37	177.26	2,286.16	1,354.53	1,252.27	2,606.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,433.23	2,209.22	11,220.76	7,489.97	7,373.24	14,863.21	
	Components (%)									9.6%	14.9%	75.5%	50.4%	49.6%	100.0%	
	Unit Rate	m								14.37	22.15	112.49	75.09	73.91	149.00	

Tc = (Ts + Tb)/F

Tc : Construction time per pile	=	29.4 min/pile	L : Pile Driving length	= 15.00 m
Ts : Preparation time per pile	=	10.00 min/pile	K : Coefficient	= 0.95
Tb : Driving time per pile	=	γ·L·K = 13.54 min/pile	Nmax: Maximum N-value	= 30.00
γ : Driving time per unit meter	=	0.01·Nmax + 0.65 = 0.95 min/m	F : Work factor	= 0.80
			T : Operation hour per day	= 6.56 hr/day
			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 Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	164.14	0.00	0.00	0.00	164.14	164.14	
L019	Skilled Labor	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	233.74	0.00	0.00	0.00	233.74	233.74	
L020	Unskilled Labor	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	91.06	0.00	0.00	0.00	91.06	91.06	
R0503-120	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	1.88	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	121.27	137.80	1,118.97	676.52	701.52	1,378.04	
R0401-040	Crawler Crane, 36-40t	hr	1.88	3.7%	8.4%	87.9%	53.2%	46.8%	1,950.00	135.64	307.94	3,222.41	1,949.00	1,717.00	3,666.00	
R1001-200	Generator 151-200 kW	day	0.29	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	728.85	802.35	909.85	621.35	1,531.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.13	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	82.66	102.20	1,318.04	780.93	721.97	1,502.90	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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	m								8.29	12.77	64.64	43.18	42.52	85.70	

Tc = (Ts + Tb)/F

Tc : Construction time per pile	=	17.0 min/pile	L : Pile pull out length	= 15.00 m
Ts : Preparation time per pile	=	6.00 min/pile	K : Coefficient	= 0.95
Tb : Pull out time per pile	=	γ·L·K = 9.26 min/pile	Nmax: Maximum N-value	= 30.00
γ : Pull out time per unit meter	=	0.65 min/m	F : Work factor	= 0.90
			T : Operation hour per day	= 6.56 hr/day
			Pile Length	= 15.00 m

W0501 Ground Assembly of Structural Steel Bridge Members Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	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	9.91	14.87	12.39	12.39	24.78	2.0%
	Total									144.56	38.80	1,080.32	609.65	654.01	1,263.67	
	Components (%)									11.4%	3.1%	85.5%	48.2%	51.8%	100.0%	
	Unit Rate	t								144.14	38.68	1,077.18	607.88	652.12	1,260.00	

Miscellaneous covers the cost for generator, fuel, etc.

y = G/[0.038·a·(G+23)]

y : Work capacity	=	25.82 t/day	G : Assembled weight	= 1196.0 t
			a : coefficient	= 1.00

W0502 Erection of Structural Steel Bridge Members Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	209.42	0.00	0.00	0.00	209.42	209.42	
L019	Skilled Labor	md	2.25	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	906.75	0.00	0.00	0.00	906.75	906.75	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	162.11	280.98	10,363.91	5,809.76	4,997.24	10,807.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%		0.00	337.10	505.65	421.38	421.38	842.75	7.0%
	Total									1,394.46	618.08	10,869.57	6,231.13	6,660.97	12,882.10	
	Components (%)									10.8%	4.8%	84.4%	48.4%	51.6%	100.0%	
	Unit Rate	t								139.64	61.89	1,088.47	623.98	666.02	1,290.00	

Miscellaneous covers the cost for generator, fuel, etc.

y = W/[0.47·a1·(n+4)] ≧ 9.0t/day

y : Work capacity	=	26.7 t/day	W : Total weight of steel members	= 1708 t
a1: Coefficient = 0.4·√(0.75·W/n)	=	1.6	n : number of members to be erected	= 81

W0503 Bolting of Structural Steel Bridge Members Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%)					Unit Rate Total (PP)	Amount Component (PP)					Amount Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L019	Skilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	141.05	0.00	0.00	0.00	141.05	141.05	
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84	
M02071	High Tension Bolt M16	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	185.00	0.00	129.50	55.50	185.00	
M02072	High Tension Bolt M20	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	29.20	0.00	876.00	0.00	613.20	262.80	876.00	
M02073	High Tension Bolt M22	each	40.00	0.0%	100.0%	0.0%	70.0%	30.0%	42.20	0.00	1,688.00	0.00	1,181.60	506.40	1,688.00	
M02074	High Tension Bolt M24	each	20.00	0.0%	100.0%	0.0%	70.0%	30.0%	62.70	0.00	1,254.00	0.00	877.80	376.20	1,254.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%		0.00	67.15	100.72	83.94	83.94	167.87	4.0%
	Total									193.85	4,070.15	100.72	2,886.04	1,478.69	4,364.72	
	Components (%)									4.4%	93.3%	2.3%	66.1%	33.9%	100.0%	
	Unit Rate	each								1.94	40.66	1.01	28.83	14.77	43.60	

Miscellaneous covers the cost for generator, fuel, etc.

Q = 0.02·N+1420 ≦1700 N : Total number of bolts = 27326

Q : Work capacity = 1700.0 each/day

W0504 Finish Painting of Structural Steel Bridge Members — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L010	Painter	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	4,224.00	0.00	0.00	0.00	4,224.00	4,224.00	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70	765.70	
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	516.52	1,205.21	946.95	774.78	1,721.73	15.0%
	Total									5,555.70	6,439.02	1,205.21	4,796.58	8,403.35	13,199.93	
	Components (%)									42.1%	48.8%	9.1%	36.3%	63.7%	100.0%	
	Unit Rate	m2								55.56	64.39	12.05	47.97	84.03	132.00	

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

W0505 Temporary Bent for Steel Bridge Erection — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80	62.80	
M05041	Temporary Steel Shapes Depreciation	t·d	444.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	9.51	11.76	151.63	89.84	83.06	172.90	
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	0.53	3.0%	76.4%	20.6%	56.1%	43.9%	1,380.00	21.90	558.90	150.60	410.63	320.77	731.40	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	0.52	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	20.82	0.22	89.72	48.09	62.67	110.76	
W0236	Concrete Curing (plain concrete)	m3	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%		46.61	139.83	279.65	233.04	233.04	466.08	3.0%
	Total									721.40	14,608.30	672.54	7,730.94	8,271.31	16,002.24	
	Components (%)									4.5%	91.3%	4.2%	48.3%	51.7%	100.0%	
	Unit Rate	t								721.30	14,606.25	672.45	7,729.85	8,270.15	16,000.00	

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

W0506 Site Welding for Steel Bridge — Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00	
L009	Welder	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	1,500.00	0.00	0.00	0.00	1,500.00	1,500.00	
L019	Skilled Labor	md	11.98	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,827.94	0.00	0.00	0.00	4,827.94	4,827.94	
R0901-050	Welding Machine 500A	day	2.10	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	5,653.26	5,176.74	6,492.52	4,337.48	10,830.00	
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m3/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%		114.93	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	17,326.59	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	1,387.06	1,732.94	3,120.00	

Miscellaneous covers the cost for welding rods, acetylene gas, falseworks, testing, etc.
$G = M \times \alpha / (0.10 \cdot M + 12.2)$
G : Daily productivity = 6.68 m/day
M : Total length of welding = 446.5 m
α : Coefficient due to average thicknes: = 0.85

W0521 Precast PC Girder Fabrication Base Construction & Removal — Unit: 18.00 girder

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	2.46	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,392.36	0.00	0.00	0.00	1,392.36	1,392.36	
L019	Skilled Labor	md	7.38	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,974.14	0.00	0.00	0.00	2,974.14	2,974.14	
L019	Skilled Labor	md	12.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,956.90	0.00	0.00	0.00	4,956.90	4,956.90	
L020	Unskilled Labor	md	30.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	9,655.50	0.00	0.00	0.00	9,655.50	9,655.50	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	2,941.73	2,941.73	3,235.90	2,647.56	5,883.46	31.0%
	Total									18,978.90	2,941.73	2,941.73	3,235.90	21,626.46	24,862.36	
	Components (%)									76.3%	11.8%	11.8%	13.0%	87.0%	100.0%	
	Unit Rate	girder								1,053.44	163.28	163.28	179.61	1,200.39	1,380.00	

Miscellaneous covers the cost for lumber, plywood, nail, etc.
Total number of girders = 18 — Maximum Girder Length = 40.000 m — Number of bases = 3

W0522 Precast PC Girder Fabrication Base Maintenance — Unit: 1.00 girder

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L005	Carpenter	md	0.82	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	364.08	0.00	0.00	0.00	364.08	364.08	
L020	Unskilled Labor	md	0.41	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	128.74	0.00	0.00	0.00	128.74	128.74	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									492.82	0.00	0.00	0.00	492.82	492.82	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	girder								493.00	0.00	0.00	0.00	493.00	493.00	

Base Length = 41.000 m

W0535 PC Strand (8-T12.7, 150t) Installation for Precast PC Girder — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60	
L019	Skilled Labor	md	6.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,780.70	0.00	0.00	0.00	2,780.70	2,780.70	
L020	Unskilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,821.20	0.00	0.00	0.00	1,821.20	1,821.20	
M09306	PC Strand, T12.7	kg	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%
M09331	PC Sheath, φ60	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	115.00	0.00	12,075.00	0.00	7,848.75	4,226.25	12,075.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.23	1.0%	96.3%	2.8%	61.2%	38.8%	3,060.00	6.89	677.53	19.38	431.03	272.77	703.80	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	739.63	184.91	508.50	416.04	924.54	1.0%
	Total									5,514.39	87,659.71	204.28	60,705.56	32,672.83	93,378.39	
	Components (%)									5.9%	93.9%	0.2%	65.0%	35.0%	100.0%	
	Unit Rate	m								55.16	876.80	2.04	607.20	326.80	934.00	

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

W0536 PC Strand (10-T12.7, 190t) Installation for Precast PC Girder — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	962.20	962.20	
L019	Skilled Labor	md	7.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,022.50	0.00	0.00	0.00	3,022.50	3,022.50	
L020	Unskilled Labor	md	6.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,978.20	0.00	0.00	0.00	1,978.20	1,978.20	
M09306	PC Strand, T12.7	kg	820.44	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	92,709.72	0.00	64,896.80	27,812.92	92,709.72	Loss 6.0%
M09332	PC Sheath, φ65	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	123.00	0.00	12,915.00	0.00	8,394.75	4,520.25	12,915.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.27	1.0%	96.3%	2.8%	61.2%	38.8%	3,060.00	8.09	795.36	22.75	505.99	320.21	826.20	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	899.31	224.83	618.28	505.86	1,124.14	1.0%
	Total									5,970.99	107,319.39	247.57	74,415.82	39,122.13	113,537.96	
	Components (%)									5.3%	94.5%	0.2%	65.5%	34.5%	100.0%	
	Unit Rate	m								59.95	1,077.56	2.49	747.19	392.81	1,140.00	

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

W0537 PC Strand (12-T12.7, 225t) Installation for Precast PC Girder — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,018.80	0.00	0.00	0.00	1,018.80	1,018.80	
L019	Skilled Labor	md	8.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,264.30	0.00	0.00	0.00	3,264.30	3,264.30	
L020	Unskilled Labor	md	6.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,135.20	0.00	0.00	0.00	2,135.20	2,135.20	
M09306	PC Strand, T12.7	kg	984.53	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	111,251.89	0.00	77,876.32	33,375.57	111,251.89	Loss 6.0%
M09333	PC Sheath, φ70	m	105.00	0.0%	100.0%	0.0%	65.0%	35.0%	134.00	0.00	14,070.00	0.00	9,145.50	4,924.50	14,070.00	Loss 5.0%
W0225	Grout (non-shrink)	m3	0.31	1.0%	96.3%	2.8%	61.2%	38.8%	3,060.00	9.29	913.19	26.12	580.96	367.64	948.60	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	1,061.51	265.38	729.79	597.10	1,326.89	1.0%
	Total									6,427.59	127,296.59	291.49	88,332.57	45,683.11	134,015.68	
	Components (%)									4.8%	95.0%	0.2%	65.9%	34.1%	100.0%	
	Unit Rate	m								64.27	1,272.82	2.91	883.22	456.78	1,340.00	

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

W0538 PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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, T15.2	kg	116.71	0.0%	100.0%	0.0%	70.0%	30.0%	119.00	0.00	13,888.49	0.00	9,721.94	4,166.55	13,888.49	Loss 6.0%
M09322	PC Sheath, φ28	m	106.00	0.0%	100.0%	0.0%	65.0%	35.0%	52.20	0.00	5,533.20	0.00	3,596.58	1,936.62	5,533.20	Loss 6.0%
W0225	Grout (non-shrink)	m3	0.05	1.0%	96.3%	2.8%	61.2%	38.8%	3,060.00	1.50	147.29	4.21	93.70	59.30	153.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	170.71	42.68	117.36	96.02	213.39	1.0%
	Total									1,765.40	19,739.69	46.89	13,529.59	8,022.39	21,551.98	
	Components (%)									8.2%	91.6%	0.2%	62.8%	37.2%	100.0%	
	Unit Rate	m								17.65	197.84	0.47	135.30	80.40	216.00	

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

W0545 PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder — Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 8T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00	0.00	57,900.00	0.00	43,425.00	14,475.00	57,900.00	
M09365	PC Anchorage 130,150t 8T13E (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	7,950.00	0.00	79,500.00	0.00	59,625.00	19,875.00	79,500.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	984.00	534.15	449.85	984.00	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	2,283.36	570.84	1,569.81	1,284.39	2,854.20	2.0%
	Total									4,326.20	139,683.36	1,554.84	105,153.97	40,410.44	145,564.40	
	Components (%)									3.0%	96.0%	1.1%	72.2%	27.8%	100.0%	
	Unit Rate	cable								433.91	14,010.14	155.95	10,546.86	4,053.14	14,600.00	

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

W0546 PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder — Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	3,073.91	768.48	2,113.31	1,729.07	3,842.38	2.0%
	Total									4,669.60	189,473.91	1,818.08	142,483.08	53,478.51	195,961.58	
	Components (%)									2.4%	96.7%	0.9%	72.7%	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	962.20	962.20	
L019	Skilled Labor	md	5.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,256.80	0.00	0.00	0.00	2,256.80	2,256.80	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
M09346	PC Anchorage 195,225t 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	3,077.87	769.47	2,116.04	1,731.30	3,847.34	2.0%
	Total									4,851.80	189,477.87	1,884.67	142,521.41	53,692.93	196,214.34	
	Components (%)									2.5%	96.6%	1.0%	72.6%	27.4%	100.0%	
	Unit Rate	cable								484.65	18,927.09	188.26	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-T15.2, 30t) Tensioning for Precast PC Deck Slab — Unit: 10.00 cable

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 1T15.2 (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 1T15.2 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,070.00	0.00	10,700.00	0.00	8,025.00	2,675.00	10,700.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.40	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	262.40	142.44	119.96	262.40	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	323.90	80.98	222.68	182.20	404.88	2.0%
	Total									1,001.50	19,303.90	343.38	14,600.12	6,048.65	20,648.78	
	Components (%)									4.9%	93.5%	1.7%	70.7%	29.3%	100.0%	
	Unit Rate	cable								99.91	1,925.83	34.26	1,456.56	603.44	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 AA2, 28MPa, max agg. 20mm)	m3	10.20	2.1%	83.5%	14.4%	57.9%	42.1%	1,840.00	403.51	15,667.22	2,697.28	10,864.19	7,903.81	18,768.00	Loss 2.0%
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							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									1,266.80	15,794.10	4,104.50	11,712.03	9,453.37	21,165.40	
	Components (%)									6.0%	74.6%	19.4%	55.3%	44.7%	100.0%	
	Unit Rate	m3								126.89	1,581.99	411.12	1,173.12	946.88	2,120.00	

W0551 Precast PC Girder Erection (W < 12.5t) — Unit: 85.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
R0402-060	Truck Crane, Hydraulic 51-60t	hr	5.71	2.9%	5.1%	92.0%	53.4%	46.6%	2,500.00	413.98	728.03	13,133.00	7,616.10	6,658.90	14,275.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4,653.98	728.03	13,133.00	7,616.10	10,898.90	18,515.00	
	Components (%)									25.1%	3.9%	70.9%	41.1%	58.9%	100.0%	
	Unit Rate	t								54.80	8.57	154.63	89.67	128.33	218.00	

Work Capacity = 85 t/day

W0552 Precast PC Girder Erection (12.5 ≦ W < 15.0t) — Unit: 95.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	0.0%
	Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.80	
	Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%	
	Unit Rate	t								49.13	7.78	173.09	99.15	130.85	230.00	

Work Capacity = 95 t/day

W0553 Precast PC Girder Erection (15.0 ≦ W < 17.5t) Unit: 100.00 t

Item No.	Description	Unit	Quantity	Unit Rate: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	0.0%
	Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.80	
	Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%	
	Unit Rate	t								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: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	0.0%
	Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.80	
	Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%	
	Unit Rate	t								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: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	35,173.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									6,204.17	1,477.29	32,852.14	18,819.03	21,714.57	40,533.60	
	Components (%)									15.3%	3.6%	81.0%	46.4%	53.6%	100.0%	
	Unit Rate	t								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: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	42,853.75	36,629.45	79,483.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									6,234.32	1,510.18	77,098.70	42,853.75	41,989.45	84,843.20	
	Components (%)									7.3%	1.8%	90.9%	50.5%	49.5%	100.0%	
	Unit Rate	t								27.70	6.71	342.59	190.42	186.58	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: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	1,787.92	91,465.98	50,842.72	43,258.08	94,100.80	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									6,206.91	1,787.92	91,465.98	50,842.72	48,618.08	99,460.80	
	Components (%)									6.2%	1.8%	92.0%	51.1%	48.9%	100.0%	
	Unit Rate	t								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 < 80.0 t) Unit: 250.00 t

Item No.	Description	Unit	Quantity	Unit Rate: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	0.0%
	Total									6,177.67	1,941.97	99,449.36	55,294.14	52,274.86	107,569.00	
	Components (%)									5.7%	1.8%	92.5%	51.4%	48.6%	100.0%	
	Unit Rate	t								24.69	7.76	397.54	221.03	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: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	10.73	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	433.86	13,919.51	2,921.93	9,803.51	7,471.79	17,275.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.52	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	420.02	5.30	2,278.32	1,220.95	1,482.69	2,703.64	
W0237	Concrete Curing (reinforced concrete)	m3	10.52	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	33.05	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	2,814.86	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%	50.0%	55.0%	45.0%		0.00	299.73	299.73	329.71	269.76	599.47	2.0%
	Total									4,359.49	19,056.28	7,157.11	15,376.46	15,196.42	30,572.88	
	Components (%)									14.3%	62.3%	23.4%	50.3%	49.7%	100.0%	
	Unit Rate	each								436.34	1,907.32	716.35	1,539.01	1,520.99	3,060.00	

Miscellaneous covers the cost for mould, forms, cart, minor tools, etc. Concrete = 1.052 m3/each

W0602 Pier Protection Concrete Block Type B Production & Laying Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate: Component (%)					Unit Rate: Total (PP)	Amount: Component (PP)					Amount: Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	10.09	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	407.98	13,089.27	2,747.65	9,218.77	7,026.13	16,244.90	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	1,393.89	2,541.73	
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.07	3.17	7.40	5.81	35.83	41.64	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	254.10	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	899.14	4,559.13	462.26	3,196.79	2,723.74	5,920.53	
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%	50.0%	55.0%	45.0%		0.00	285.80	285.80	314.38	257.22	571.61	2.0%
	Total									4,276.40	18,059.09	6,816.52	14,595.97	14,556.03	29,152.01	
	Components (%)									14.7%	61.9%	23.4%	50.1%	49.9%	100.0%	
	Unit Rate	each								428.34	1,808.88	682.77	1,462.00	1,458.00	2,920.00	

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

W0603 Pier Protection Concrete Block Type C Production & laying — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0203	Concrete (Class A. 21MPa. max agg. 38mm)	m3	10.09	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	407.98	13,089.27	2,747.65	9,218.77	7,026.13	16,244.90	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	1,393.89	2,541.73	
W0237	Concrete Curing (reinforced concrete)	m3	9.89	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	31.07	3.17	7.40	5.81	35.83	41.64	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	236.90	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	838.28	4,250.52	430.97	2,980.40	2,539.37	5,519.77	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.60	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	118.14	116.73	1,171.53	712.39	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%	50.0%	55.0%	45.0%		0.00	281.80	281.80	309.98	253.62	563.59	2.0%
	Total									4,215.54	17,746.47	6,781.22	14,375.17	14,368.06	28,743.23	
	Components (%)									14.7%	61.7%	23.6%	50.0%	50.0%	100.0%	
	Unit Rate	each								420.92	1,771.98	677.10	1,435.36	1,434.64	2,870.00	

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

W0611 Stone Laying — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	0.00	0.00	0.00	0.00	0.00	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	11.6%	18.6%	69.8%	45.3%	54.7%	212.00	2,769.88	4,460.82	16,725.31	10,854.93	13,101.07	23,956.00	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.6m3	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	0.00	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,907.35	5,732.41	29,925.64	18,859.70	20,705.70	39,565.40	
	Components (%)									9.9%	14.5%	75.6%	47.7%	52.3%	100.0%	
	Unit Rate	m3								39.11	57.37	299.52	188.76	207.24	396.00	

W0651 Temporary Support at Pier Head for Cantilever Construction — Unit: 10.00 v·m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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%	0.76	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	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	58.44	25.05	41.74	41.74	83.49	2.0%
	Total									1,461.19	756.09	2,040.49	1,505.44	2,752.32	4,257.77	
	Components (%)									34.3%	17.8%	47.9%	35.4%	64.6%	100.0%	
	Unit Rate	v·m3								146.20	75.65	204.16	150.62	275.38	426.00	

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

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
M05041	Temporary Steel Shapes 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	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	1,026.42	439.90	733.16	733.16	1,466.32	23.0%
	Total									1,909.89	3,497.28	2,434.46	3,073.02	4,768.60	7,841.62	
	Components (%)									24.4%	44.6%	31.0%	39.2%	60.8%	100.0%	
	Unit Rate	t								1,909.49	3,496.55	2,433.95	3,072.39	4,767.61	7,840.00	

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

W0653 Temporary External & Internal Support at Pier Head for Cantilever Construction — Unit: 10.00 v·m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	46.25	19.82	33.04	33.04	66.08	4.0%
	Total									501.20	516.06	700.76	644.13	1,073.89	1,718.02	
	Components (%)									29.2%	30.0%	40.8%	37.5%	62.5%	100.0%	
	Unit Rate	v·m3								50.18	51.67	70.16	64.49	107.51	172.00	

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

W0654 Temporary Suspension Support at Center Connection for Cantilever Construction — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	2.60	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	
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	
M05041	Temporary Steel Shapes Depreciation	t·d	31.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.30	0.00	970.30	0.00	485.15	485.15	970.30	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	1,203.66	515.85	859.76	859.76	1,719.51	26.0%
	Total									2,048.61	2,432.62	3,851.79	3,321.42	5,011.59	8,333.01	
	Components (%)									24.6%	29.2%	46.2%	39.9%	60.1%	100.0%	
	Unit Rate	t								2,047.87	2,431.74	3,850.39	3,320.22	5,009.78	8,330.00	

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

W0655 Temporary External & Internal Support at Center Connection for Cantilever Construction — Unit: 10.00 v·m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	310.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	227.47	8.75	118.11	118.11	236.22	
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	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	234.07	100.31	167.19	167.19	334.38	23.0%
	Total									501.20	513.09	773.92	679.22	1,108.98	1,788.20	
	Components (%)									28.0%	28.7%	43.3%	38.0%	62.0%	100.0%	
	Unit Rate	v·m3								50.17	51.36	77.47	67.99	111.01	179.00	

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

W0656 Temporary Frame Support at Side Span for Cantilever Construction — Unit: 100.00 v·m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.51	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	288.66	0.00	0.00	0.00	288.66	288.66	
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	2.19	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	882.57	0.00	0.00	0.00	882.57	882.57	
L020	Unskilled Labor	md	1.99	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	624.86	0.00	0.00	0.00	624.86	624.86	
W0442	Temporary Frame Support Depreciation	m3·d	4,500.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	3,302.00	127.00	1,714.50	1,714.50	3,429.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	252.81	108.35	180.58	180.58	361.16	4.0%
	Total									2,005.30	3,813.47	3,571.28	3,871.59	5,518.45	9,390.05	
	Components (%)									21.4%	40.6%	38.0%	41.2%	58.8%	100.0%	
	Unit Rate	v·m3								20.05	38.13	35.71	38.72	55.18	93.90	

Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.
Provided days = 45.0 days

W0657 Temporary External & Internal Support at Side Span for Cantilever Construction — Unit: 10.00 v·m3

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	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	
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%		0.00	45.40	19.46	32.43	32.43	64.86	4.0%
	Total									501.20	485.85	699.27	628.28	1,058.04	1,686.32	
	Components (%)									29.7%	28.8%	41.5%	37.3%	62.7%	100.0%	
	Unit Rate	v·m3								50.23	48.69	70.08	62.97	106.03	169.00	

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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	8,376.80	0.00	0.00	0.00	8,376.80	8,376.80	
L019	Skilled Labor	md	91.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	36,673.00	0.00	0.00	0.00	36,673.00	36,673.00	
L020	Unskilled Labor	md	85.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	26,941.20	0.00	0.00	0.00	26,941.20	26,941.20	
R0402-045	Truck Crane. Hydraulic 41-45t	hr	85.65	3.3%	5.0%	91.7%	53.1%	46.9%	2,240.00	6,331.25	9,592.80	175,931.95	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	49,867.08	21,371.61	35,619.35	35,619.35	71,238.69	27.0%
	Total									78,322.25	59,459.88	197,303.56	137,444.24	197,641.45	335,085.69	
	Components (%)									23.4%	17.7%	58.9%	41.0%	59.0%	100.0%	
	Unit Rate	set								78,302.22	59,444.68	197,253.10	137,409.09	197,590.91	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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	265.49	176.99	221.24	221.24	442.48	27.0%
	Total									1,638.80	265.49	176.99	221.24	1,860.04	2,081.28	
	Components (%)									78.7%	12.8%	8.5%	10.6%	89.4%	100.0%	
	Unit Rate	time								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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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	time								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 Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,143.40	0.00	0.00	0.00	1,143.40	1,143.40	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	m								114.00	0.00	0.00	0.00	114.00	114.00	

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

W0671 PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal) — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,490.40	0.00	0.00	0.00	2,490.40	2,490.40	
L019	Skilled Labor	md	23.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	9,389.90	0.00	0.00	0.00	9,389.90	9,389.90	
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	5,432.20	0.00	0.00	0.00	5,432.20	5,432.20	
M09306	PC Strand. T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,846.00	35,934.00	119,780.00	Loss 6.0%
R0402-025	Truck Crane. Hydraulic 21-25t	hr	3.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	250.90	310.21	4,000.79	2,370.43	2,191.47	4,561.90	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	9,065.88	2,266.47	6,232.79	5,099.56	11,332.35	8.0%
	Total									17,563.40	129,156.09	6,267.26	92,449.23	60,537.52	152,986.75	
	Components (%)									11.5%	84.4%	4.1%	60.4%	39.6%	100.0%	
	Unit Rate	t								17,564.93	129,167.28	6,267.80	92,457.23	60,542.77	153,000.00	

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

W0672 PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 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	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	12,865.08	8,576.72	11,792.99	9,648.81	21,441.80	20.0%
	Total									1,209.00	118,865.08	8,576.72	91,292.99	37,357.81	128,650.80	
	Components (%)									0.9%	92.4%	6.7%	71.0%	29.0%	100.0%	
	Unit Rate	each								121.23	11,918.77	860.00	9,154.08	3,745.92	12,900.00	

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

W0673 PC Cable Tensioning, (12-T12.7, 226t) for PC Box Girder (Longitudinal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 12T13M (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00	0.00	80,400.00	0.00	60,300.00	20,100.00	80,400.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	984.00	534.15	449.85	984.00	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	1.50	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	27.26	824.74	466.02	385.98	852.00	
R0710-000	Grout Pump	day	1.50	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,920.00	1,042.80	877.20	1,920.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	3,246.31	2,164.21	2,975.78	2,434.73	5,410.52	6.0%
	Total									6,019.30	83,673.57	5,892.94	65,318.76	30,267.06	95,585.82	
	Components (%)									6.3%	87.5%	6.2%	68.3%	31.7%	100.0%	
	Unit Rate	each								602.02	8,368.60	589.38	6,532.85	3,027.15	9,560.00	

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

W0676 PC Cable Installation. (5-T12.7, 90t) for PC Box Girder (Transversal) — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,603.60	0.00	0.00	0.00	2,603.60	2,603.60	
L019	Skilled Labor	md	21.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	8,664.50	0.00	0.00	0.00	8,664.50	8,664.50	
L020	Unskilled Labor	md	17.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	5,589.20	0.00	0.00	0.00	5,589.20	5,589.20	
M09306	PC Strand. T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.00	0.00	83,846.00	35,934.00	119,780.00	Loss 6.0%
R0402-025	Truck Crane. Hydraulic 21-25t	hr	3.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	250.90	310.21	4,000.79	2,370.43	2,191.47	4,561.90	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	9,036.75	2,259.19	6,212.76	5,083.17	11,295.94	8.0%
	Total									17,108.20	129,126.96	6,259.97	92,429.20	60,065.94	152,495.14	
	Components (%)									11.2%	84.7%	4.1%	60.6%	39.4%	100.0%	
	Unit Rate	t								17,052.66	128,707.70	6,239.65	92,129.09	59,870.91	152,000.00	

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

W0677 PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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 Anchorage φ32 (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	1,908.52	1,561.52	3,470.04	26.0%
	Total									846.30	14,582.02	1,388.02	11,283.52	5,532.82	16,816.34	
	Components (%)									5.0%	86.7%	8.3%	67.1%	32.9%	100.0%	
	Unit Rate	each								84.55	1,456.79	138.67	1,127.26	552.74	1,680.00	

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

W0678 PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	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	659.40	
M09343	PC Sheath, φ75	m	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	150.00	0.00	1,500.00	0.00	975.00	525.00	1,500.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	721.60	391.71	329.89	721.60	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	1.10	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	19.99	604.81	341.75	283.05	624.80	
R0710-000	Grout Pump	day	1.10	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,408.00	764.72	643.28	1,408.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	407.78	271.85	373.79	305.83	679.63	9.0%
	Total									3,297.00	1,927.77	3,006.26	2,846.98	5,384.05	8,231.03	
	Components (%)									40.1%	23.4%	36.5%	34.6%	65.4%	100.0%	
	Unit Rate	each								329.66	192.75	300.59	284.66	538.34	823.00	

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

W0681 PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal) — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	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	2,355.00	
M09313	PC Tendon, φ32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,912.71	6.0%
	Total									8,950.61	143,388.83	5,118.48	102,078.51	55,379.41	157,457.91	
	Components (%)									5.7%	91.1%	3.3%	64.8%	35.2%	100.0%	
	Unit Rate	t								8,924.58	142,971.83	5,103.59	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-φ32mm) for PC Box Girder (Transversal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
M09374	PC Anchorage φ32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,501.76	1,001.17	1,376.61	1,126.32	2,502.93	16.0%
	Total									443.30	16,701.76	1,001.17	12,776.61	5,369.62	18,146.23	
	Components (%)									2.4%	92.0%	5.5%	70.4%	29.6%	100.0%	
	Unit Rate	each								44.22	1,665.92	99.86	1,274.41	535.59	1,810.00	

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

W0683 PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	628.00	
M09354	PC Anchorage φ32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	524.80	284.88	239.92	524.80	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	0.80	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	14.54	439.86	248.54	205.86	454.40	
R0710-000	Grout Pump	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,024.00	556.16	467.84	1,024.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	313.88	209.25	287.72	235.41	523.13	3.0%
	Total									2,934.60	12,828.42	2,197.91	10,752.31	7,208.62	17,960.93	
	Components (%)									16.3%	71.4%	12.2%	59.9%	40.1%	100.0%	
	Unit Rate	each								294.10	1,285.63	220.27	1,077.57	722.43	1,800.00	

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

W0686 PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web) — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	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	2,355.00	
M09313	PC Tendon, φ32	kg	1,000.00	0.0%	100.0%	0.0%	70.0%	30.0%	136.00	0.00	136,000.00	0.00	95,200.00	40,800.00	136,000.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.86	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	209.21	258.66	3,335.93	1,976.51	1,827.29	3,803.80	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%		0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,912.71	6.0%
	Total									8,950.61	143,388.83	5,118.48	102,078.51	55,379.41	157,457.91	
	Components (%)									5.7%	91.1%	3.3%	64.8%	35.2%	100.0%	
	Unit Rate	t								8,924.58	142,971.83	5,103.59	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-φ32mm) for PC Box Girder (Vertical in Web) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
M09374	PC Anchorage φ32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	1,501.76	1,001.17	1,376.61	1,126.32	2,502.93	16.0%
	Total									443.30	16,701.76	1,001.17	12,776.61	5,369.62	18,146.23	
	Components (%)									2.4%	92.0%	5.5%	70.4%	29.6%	100.0%	
	Unit Rate	each								44.22	1,665.92	99.86	1,274.41	535.59	1,810.00	

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

W0688 PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web) — Unit: 10.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	
L020	Unskilled Labor	md	2.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	628.00	0.00	0.00	0.00	628.00	628.00	
M09354	PC Anchorage φ32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	656.00	0.00	0.00	524.80	284.88	239.92	524.80	
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	0.80	0.0%	3.2%	96.8%	54.7%	45.3%	568.00	0.00	14.54	439.86	248.54	205.86	454.40	
R0710-000	Grout Pump	day	0.80	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00	0.00	0.00	1,024.00	556.16	467.84	1,024.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%		0.00	313.88	209.25	287.72	235.41	523.13	3.0%
	Total									2,934.60	12,828.42	2,197.91	10,752.31	7,208.62	17,960.93	
	Components (%)									16.3%	71.4%	12.2%	59.9%	40.1%	100.0%	
	Unit Rate	each								294.10	1,285.63	220.27	1,077.57	722.43	1,800.00	

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

W0701 Precast Concrete Cover (580x480x70), furnish — Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0204	Concrete (Class C, 21MPa, max agg.12mm)	m3	1.76	2.3%	82.3%	15.3%	57.0%	43.0%	1,710.00	69.77	2,478.28	461.55	1,715.06	1,294.54	3,009.60	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 Curing (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	
M02001	Reinforcing Bars, Grade 40	kg	305.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	4,886.40	0.00	3,176.16	1,710.24	4,886.40	
M02011	Structural Steel (Round Bar, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	2,271.56	0.00	1,590.09	681.47	2,271.56	
M02014	Structural Steel (Shapes, SS400)	kg	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	0.16	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	9.63	13.77	47.95	34.96	36.40	71.36	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%		0.00	272.80	68.20	170.50	170.50	341.00	3.0%
	Total									153.91	10,600.07	953.66	7,361.66	4,345.99	11,707.65	
	Components (%)									1.3%	90.5%	8.1%	62.9%	37.1%	100.0%	
	Unit Rate	each								1.54	105.93	9.53	73.57	43.43	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	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.30	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	753.60	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	11.08	99.73	55.40	55.40	110.81	12.0%
	Total									923.40	11.08	99.73	55.40	978.80	1,034.21	
	Components (%)									89.3%	1.1%	9.6%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.20	0.11	0.99	0.55	9.75	10.30	

Miscellaneous covers the cost for cart, etc.

W0703 Precast Concrete Cover (680x580x75), furnish — Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0204	Concrete (Class C, 21MPa, max agg.12mm)	m3	3.02	2.3%	82.3%	15.3%	57.0%	43.0%	1,710.00	119.73	4,252.50	791.98	2,942.89	2,221.31	5,164.20	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 Curing (reinforced concrete)	m3	2.96	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	9.30	0.95	2.21	1.74	10.72	12.46	
M02001	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	9,716.80	0.00	6,315.92	3,400.88	9,716.80	
M02011	Structural Steel (Round Bar, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	837.12	0.00	585.98	251.14	837.12	
M02014	Structural Steel (Shapes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	1,833.92	0.00	1,283.74	550.18	1,833.92	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.27	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	16.26	23.24	80.92	59.00	61.42	120.42	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%		0.00	440.35	110.09	275.22	275.22	550.44	3.0%
	Total									795.32	17,106.18	996.90	11,471.64	7,426.76	18,898.40	
	Components (%)									4.2%	90.5%	5.3%	60.7%	39.3%	100.0%	
	Unit Rate	each								7.95	171.08	9.97	114.73	74.27	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	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.30	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	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									923.40	0.00	110.81	55.40	978.80	1,034.21	
	Components (%)									89.3%	0.0%	10.7%	5.4%	94.6%	100.0%	
	Unit Rate	each								9.20	0.00	1.10	0.55	9.75	10.30	

Miscellaneous covers the cost for cart, etc.

W0711 Iron Step for Drop Inlet Manholes, furnish & installation — Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
M02011	Structural Steel (Round Bar, SS400)	kg	226.90	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,946.42	0.00	3,462.49	1,483.93	4,946.42	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	86.58	346.32	216.45	216.45	432.90	8.0%
	Total									464.80	5,033.00	346.32	3,678.94	2,165.17	5,844.12	
	Components (%)									8.0%	86.1%	5.9%	63.0%	37.0%	100.0%	
	Unit Rate	each								4.64	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	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
M02011	Structural Steel (Round Bar, SS400)	kg	209.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,569.28	0.00	3,198.50	1,370.78	4,569.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	80.55	322.18	201.36	201.36	402.73	8.0%
	Total									464.80	4,649.83	322.18	3,399.86	2,036.95	5,436.81	
	Components (%)									8.5%	85.5%	5.9%	62.5%	37.5%	100.0%	
	Unit Rate	each								4.65	46.53	3.22	34.02	20.38	54.40	

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

W0716 Steel Grate for Manhole Inlet, furnish & installation — Unit: 40.00 kg

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
M02001	Reinforcing Bars, Grade 40	kg	41.20	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	659.20	0.00	428.48	230.72	659.20	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	8.99	80.93	44.96	44.96	89.92	8.0%
	Total									464.80	668.19	80.93	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	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	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	650.00	0.00	0.00	0.00	650.00	650.00	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M02014	Structural Steel (Shapes, 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	
M02012	Structural Steel (Flat Bar, SS400)	kg	269.20	0.0%	100.0%	0.0%	70.0%	30.0%	22.70	0.00	6,110.84	0.00	4,277.59	1,833.25	6,110.84	
M02001	Reinforcing Bars, Grade 40	kg	24.47	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	391.52	0.00	254.49	137.03	391.52	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	111.57	111.57	111.57	111.57	223.15	2.0%
	Total									1,020.60	10,248.33	111.57	7,187.73	4,192.78	11,380.51	
	Components (%)									9.0%	90.1%	1.0%	63.2%	36.8%	100.0%	
	Unit Rate	m2								102.23	1,026.59	11.18	720.00	420.00	1,140.00	

Miscellaneous covers the cost for cutter, bender, wedding machine, welding rod, cart, etc.

W0731 Rubble Concrete — Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L019	Skilled Labor	md	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	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	113.04	0.00	0.00	0.00	113.04	113.04	
W0122	Crushed Aggregate, transported	m3	67.80	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	1,698.30	2,911.57	13,967.33	8,774.83	9,802.37	18,577.20	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	5.22	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	399.64	762.96	7,920.20	4,802.86	4,279.94	9,082.80	
W0202	Concrete (Class B, 17MPa, max agg.50mm)	m3	40.80	3.0%	76.4%	20.6%	56.1%	43.9%	1,380.00	1,685.75	43,024.97	11,593.28	31,610.70	24,693.30	56,304.00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	40.00	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	1,601.48	16.71	6,901.81	3,699.13	4,820.87	8,520.00	
W0236	Concrete Curing (plain concrete)	m3	40.00	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	251.06	30.88	72.06	56.61	297.39	354.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	1,117.45	744.97	931.21	931.21	1,862.42	2.0%
	Total									5,919.09	47,864.53	41,199.64	49,875.35	45,107.91	94,983.26	
	Components (%)									6.2%	50.4%	43.4%	52.5%	47.5%	100.0%	
	Unit Rate	m3								59.20	478.73	412.07	498.84	451.16	950.00	

Miscellaneous covers the cost for forms, joints, etc.
Proportion of concrete and aggregate = 40.0% 60.0%

W0732 Granular Bedding for Rubble Concrete — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	690.80	0.00	0.00	0.00	690.80	690.80	
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	300.58	515.32	2,472.09	1,553.07	1,734.93	3,288.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%		0.00	16.40	65.60	41.00	41.00	81.99	2.0%
	Total									1,112.28	531.72	2,537.69	1,594.06	2,587.63	4,181.69	
	Components (%)									26.6%	12.7%	60.7%	38.1%	61.9%	100.0%	
	Unit Rate	m3								111.18	53.15	253.67	159.34	258.66	418.00	

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

W0733 Washout Prevention Filter, furnish and laying — Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84	
M10202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	880.61	0.00	528.37	352.24	880.61	Loss 7.0%
	Miscellaneous	LS	1.00	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									18.84	882.41	16.19	537.36	380.08	917.44	
	Components (%)									2.1%	96.2%	1.8%	58.6%	41.4%	100.0%	
	Unit Rate	m2								1.88	88.20	1.62	53.71	37.99	91.70	

Miscellaneous covers the costs for minor tools, etc.

W0741 Grouted Riprap Class A — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.30	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	11.6%	18.6%	69.8%	45.3%	54.7%	212.00	220.61	355.29	1,332.10	864.55	1,043.45	1,908.00	Loss 20.0%
W0221	Mortar (1:3)	m3	2.55	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	78.23	4,360.82	227.46	2,708.33	1,958.17	4,666.50	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	74.35	37.18	37.18	74.35	1.0%
	Total									1,159.43	4,716.10	1,633.91	3,610.06	3,899.39	7,509.45	
	Components (%)									15.4%	62.8%	21.8%	48.1%	51.9%	100.0%	
	Unit Rate	m3								115.95	471.64	163.40	361.03	389.97	751.00	

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

W0742 Stone Masonry, laid — Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	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	11.6%	18.6%	69.8%	45.3%	54.7%	212.00	205.90	331.60	1,243.30	806.91	973.89	1,780.80	Loss 20.0%
W0222	Mortar (1:2)	m3	3.06	1.5%	93.7%	4.8%	58.1%	41.9%	2,350.00	107.62	6,737.52	345.87	4,181.30	3,009.70	7,191.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	101.10	50.55	50.55	101.10	1.0%
	Total									1,451.92	7,069.12	1,690.27	5,038.77	5,172.54	10,211.30	
	Components (%)									14.2%	69.2%	16.6%	49.3%	50.7%	100.0%	
	Unit Rate	m3								145.03	706.13	168.84	503.32	516.68	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 — Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L007	Masonry	md	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"x8"x16" (150x200x400mm)	each	110.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,320.00	0.00	330.00	990.00	1,320.00	Loss 10.0%
W0221	Mortar (1:3)	m3	0.37	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	11.35	632.75	33.00	392.97	284.13	677.10	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%		0.00	0.00	38.70	19.35	19.35	38.70	1.0%
	Total									1,884.05	1,952.75	71.70	742.32	3,166.18	3,908.50	
	Components (%)									48.2%	50.0%	1.8%	19.0%	81.0%	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 (t=100mm) — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	75.35	583.72	366.00	461.97	827.97	
R0306-006	Vibration Rammer, 6in	day	0.85	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	66.34	67.96	80.14	54.16	134.30	
W0122	Crushed Aggregate, transported	m3	13.56	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	339.66	582.31	2,793.47	1,754.97	1,960.47	3,715.44	Loss 32.0%
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,450.57	724.00	3,445.14	2,201.11	3,418.60	5,619.71	
	Components (%)									25.8%	12.9%	61.3%	39.2%	60.8%	100.0%	
	Unit Rate	m2								14.51	7.24	34.45	22.01	34.19	56.20	

W0853 PCC Pavement (Plain), t=100mm for Side Walk — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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 agg.38mm)	m3	10.40	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	420.52	13,491.42	2,832.07	9,502.00	7,242.00	16,744.00	Loss 4.0%
M07101	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	
M07111	Joint Sealant (10x10mm)	m	50.00	0.0%	100.0%	0.0%	60.0%	40.0%	62.70	0.00	3,135.00	0.00	1,881.00	1,254.00	3,135.00	
M02011	Structural Steel (Round Bar, SS400)	kg	246.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	5,375.88	0.00	3,763.12	1,612.76	5,375.88	
M08701	Steel Gas Pipe, φ25	m	52.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	6,084.00	0.00	3,650.40	2,433.60	6,084.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	3,087.38	8.0%
	Total									6,958.92	28,801.30	2,832.07	19,225.52	19,366.76	41,679.66	
	Components (%)									16.7%	69.1%	6.8%	46.1%	46.5%	100.0%	
	Unit Rate	m2								69.62	288.15	28.33	192.35	193.76	417.00	

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

W0871 Guardrail Type A, furnish — Unit: 8.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	45.28	0.00	0.00	0.00	45.28	45.28	
L009	Welder	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	80.00	0.00	0.00	0.00	80.00	80.00	
L010	Painter	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	70.40	0.00	0.00	0.00	70.40	70.40	
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	128.96	
M02015	Structural Steel (Plates, SS400)	kg	93.64	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,891.53	0.00	1,324.07	567.46	1,891.53	Loss 8.0%
M02031	Steel Pipe	kg	105.52	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	2,521.93	0.00	1,765.35	756.58	2,521.93	Loss 8.0%
M02351	Bolt M16x50	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%	18.70	0.00	56.10	0.00	39.27	16.83	56.10	
R0901-025	Welding Machine 250A	day	0.16	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	56.64	55.12	38.96	94.08	
R1001-100	Generator 51-100 kW	day	0.16	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	200.57	229.83	255.10	175.30	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		249.91	749.73	666.43	666.43	999.64	1,666.07	30.0%
	Total									574.55	5,692.20	952.90	4,269.77	2,949.88	7,219.65	
	Components (%)									8.0%	78.8%	13.2%	59.1%	40.9%	100.0%	
	Unit Rate	m								71.78	711.17	119.05	533.45	368.55	902.00	

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

W0872 Guardrail Type B, furnish Unit: 8.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	45.28	0.00	0.00	0.00	45.28	45.28	
L009	Welder	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	80.00	0.00	0.00	0.00	80.00	80.00	
L010	Painter	md	0.16	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	70.40	0.00	0.00	0.00	70.40	70.40	
L019	Skilled Labor	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	128.96	0.00	0.00	0.00	128.96	128.96	
M02015	Structural Steel (Plates. SS400)	kg	93.64	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,891.53	0.00	1,324.07	567.46	1,891.53	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	925.17	396.50	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%	18.70	0.00	56.10	0.00	39.27	16.83	56.10	
R0901-025	Welding Machine 250A	day	0.16	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	37.44	56.64	55.12	38.96	94.08	
R1001-100	Generator 51-100 kW	day	0.16	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	200.57	229.83	255.10	175.30	430.40	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		195.90	587.70	522.40	522.40	783.60	1,306.00	30.0%
	Total									520.54	4,329.91	808.87	3,285.56	2,373.76	5,659.32	
	Components (%)									9.2%	76.5%	14.3%	58.1%	41.9%	100.0%	
	Unit Rate	m								65.03	540.92	101.05	410.45	296.55	707.00	

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

W0882 Chain Link Fence 25mm mesh (H=1.87m), furnished Unit: 47.26 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	266.02	0.00	0.00	0.00	266.02	266.02	
L009	Welder	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	235.00	0.00	0.00	0.00	235.00	235.00	
L010	Painter	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	418.00	0.00	0.00	0.00	418.00	418.00	
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26	
M02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,585.43	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	86.49	0.0%	100.0%	0.0%	70.0%	30.0%	168.00	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32	Loss 3.0%
R0901-025	Welding Machine 250A	day	0.47	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	109.99	166.37	161.91	114.45	276.36	
R1001-100	Generator 51-100 kW	day	0.47	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	589.16	675.14	749.37	514.93	1,264.30	
	Miscellaneous	LS	1.00	15.0%	45.0%	40.0%	40.0%	60.0%		1,432.60	4,297.79	3,820.25	3,820.25	5,730.38	9,550.64	30.0%
	Total									2,923.88	33,800.45	4,661.76	24,893.98	16,492.10	41,386.09	
	Components (%)									7.1%	81.7%	11.3%	60.2%	39.8%	100.0%	
	Unit Rate	m								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 Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	967.20	
L020	Unskilled Labor	md	2.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	722.20	0.00	0.00	0.00	722.20	722.20	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,859.20	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	each								18.60	0.00	0.00	0.00	18.60	18.60	

W0912 Digging Out Tree, Medium Tree 1.5m<H≦3.0m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,813.50	0.00	0.00	0.00	1,813.50	1,813.50	
L020	Unskilled Labor	md	4.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,413.00	0.00	0.00	0.00	1,413.00	1,413.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3,566.10	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	each								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 Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	8.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,425.50	0.00	0.00	0.00	3,425.50	3,425.50	
L020	Unskilled Labor	md	6.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,915.40	0.00	0.00	0.00	1,915.40	1,915.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	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	each								63.00	0.00	0.00	0.00	63.00	63.00	

W0921 Tree Haulage, Low Tree H≦1.5m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	5.64	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	339.58	485.48	1,690.38	1,232.36	1,283.08	2,515.44	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									339.58	485.48	1,690.38	1,232.36	1,283.08	2,515.44	
	Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
	Unit Rate	each								3.40	4.86	16.93	12.35	12.85	25.20	

T = (A*N+2xL/V)/N = 0.06 hr/each
N: Loading capacity = 50.00 each   A: Loading Time = 0.05 hr/each
L: Haulage Distance = 4.00 km   V: Traveling Speed = 25.00 km/hr

W0922 Tree Haulage, Medium Tree 1.5m<H≦3.0m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	10.71	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	644.85	921.90	3,209.92	2,340.17	2,436.49	4,776.66	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									644.85	921.90	3,209.92	2,340.17	2,436.49	4,776.66	
	Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
	Unit Rate	each								6.45	9.23	32.12	23.42	24.38	47.80	

T = (A*N+2xL/V)/N = 0.11 hr/each
N: Loading capacity = 45.00 each   A: Loading Time = 0.10 hr/each
L: Haulage Distance = 4.00 km   V: Traveling Speed = 25.00 km/hr

W0923 Tree Haulage, High Tree (young tree) 1.5m<H≦3.0m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	18.60	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	1,119.91	1,601.05	5,574.64	4,064.16	4,231.44	8,295.60	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,119.91	1,601.05	5,574.64	4,064.16	4,231.44	8,295.60	
	Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
	Unit Rate	each								11.21	16.02	55.78	40.66	42.34	83.00	

T = (A*N+2xL/V)/N = 0.19 hr/each
N: Loading capacity = 20.00 each   A: Loading Time = 0.17 hr/each
L: Haulage Distance = 4.00 km   V: Traveling Speed = 25.00 km/hr

W0931 Tree Planting, Low Tree H≦1.5m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	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	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									910.80	0.00	0.00	0.00	910.80	910.80	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	each								9.11	0.00	0.00	0.00	9.11	9.11	

W0932 Tree Planting, Medium Tree 1.5m<H≦3.0m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	3.70	100.0%	0.0%	0.0%	0.0%	100.0%	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	0.0%
	Total									2,716.10	0.00	0.00	0.00	2,716.10	2,716.10	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	each								27.20	0.00	0.00	0.00	27.20	27.20	

W0933 Tree Planting, High Tree (young tree) 1.5m<H≦3.0m Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20	
L019	Skilled Labor	md	16.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,488.30	0.00	0.00	0.00	6,488.30	6,488.30	
L020	Unskilled Labor	md	9.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3,014.40	0.00	0.00	0.00	3,014.40	3,014.40	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	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%	100.0%	
	Unit Rate	each								113.00	0.00	0.00	0.00	113.00	113.00	

W0951 Precast Curbstone for Planter Square, Furnish Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0203	Concrete (Class A. 21MPa. max agg. 38mm)	m3	2.30	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	93.00	2,983.68	626.32	2,101.40	1,601.60	3,703.00	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	0.99	8.89	5.44	498.56	504.00	
W0236	Concrete Curing (plain concrete)	m3	2.25	70.9%	8.7%	20.4%	16.0%	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	0.20	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	12.06	21.59	86.95	61.24	59.36	120.60	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	208.68	139.12	173.90	173.90	347.80	8.0%
	Total									613.30	3,216.67	865.34	2,345.16	2,350.15	4,695.31	
	Components (%)									13.1%	68.5%	18.4%	49.9%	50.1%	100.0%	
	Unit Rate	m								6.14	32.20	8.66	23.49	23.52	47.00	

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

W0952 Precast Curbstone for Planter Square, Laying Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	879.70	0.00	0.00	0.00	879.70	879.70	
L020	Unskilled Labor	md	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%	98.1%	100.0%	
	Unit Rate	m								33.08	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 Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0203	Concrete (Class A. 21MPa. max agg. 38mm)	m3	6.12	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	247.46	7,939.18	1,666.56	5,591.56	4,261.64	9,853.20	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	44.61	53.10	
W0251	Reinforcement Grade 40. cutting, bending & assembly	kg	480.00	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	1,698.50	8,612.28	873.22	6,038.79	5,145.21	11,184.00	
R0601-006	Dump Truck. 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.90	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	54.27	97.14	391.29	275.57	267.13	542.70	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	1,102.90	735.26	919.08	919.08	1,838.16	8.0%
	Total									3,355.53	17,758.77	3,700.86	12,847.99	11,967.17	24,815.16	
	Components (%)									13.5%	71.6%	14.9%	51.8%	48.2%	100.0%	
	Unit Rate	m2								33.53	177.48	36.99	128.40	119.60	248.00	

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

W0957 Treading Prevention Board for Planter Square, Laying Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L007	Masonry	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	463.00	1,203.80	0.00	0.00	0.00	1,203.80	1,203.80	
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,350.20	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	3,112.04	3,217.28	
	Components (%)									93.5%	4.6%	2.0%	3.3%	96.7%	100.0%	
	Unit Rate	m2								30.09	1.47	0.63	1.05	31.15	32.20	

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

W1001 Underground Cable Duct Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0102	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	76.78	71.42	148.20	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.90	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	6.62	12.35	64.53	43.08	40.62	83.70	
W0133	Backfill C	m3	2.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	34.77	36.03	233.70	150.43	154.07	304.50	
W0201	Lean Concrete (17MPa. max agg. 38mm)	m3	0.92	2.7%	79.0%	18.3%	56.5%	43.5%	1,500.00	37.36	1,090.44	252.20	779.55	600.45	1,380.00	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	
M13052	Electric Conduit	m	10.00	0.0%	100.0%	0.0%	45.0%	55.0%	67.90	0.00	679.00	0.00	305.55	373.45	679.00	
M13051	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	623.00	0.00	342.65	280.35	623.00	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	126.30	0.00	0.00	0.00	126.30	126.30	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	18.05	18.05	18.05	18.05	36.11	1.0%
	Total									474.64	2,472.41	699.93	1,719.55	1,927.43	3,646.98	
	Components (%)									13.0%	67.8%	19.2%	47.1%	52.9%	100.0%	
	Unit Rate	m								47.50	247.45	70.05	172.10	192.90	365.00	

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

W1011 Electric Cable Laying Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
M13051	Electric Cable	m	10.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	623.00	0.00	342.65	280.35	623.00	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L012	Electrician	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	126.30	0.00	0.00	0.00	126.30	126.30	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	16.12	16.12	16.12	16.12	32.24	4.0%
	Total									182.90	639.12	16.12	358.77	479.37	838.14	
	Components (%)									21.8%	76.3%	1.9%	42.8%	57.2%	100.0%	
	Unit Rate	m								18.29	63.90	1.61	35.87	47.93	83.80	

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

W1101 Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	385.04	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	9,202.46	0.00	6,441.72	2,760.74	9,202.46	Loss 5.0%
M02015	Structural Steel (Plates. SS400)	kg	57.44	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,160.29	0.00	812.20	348.09	1,160.29	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	day	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	day	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.68	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	56.08	90.54	437.51	296.70	287.42	584.12	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		104.56	2,352.60	2,770.84	2,875.40	2,352.60	5,228.01	30.0%
	Total									1,534.94	15,486.74	5,633.02	13,497.39	9,157.31	22,654.70	
	Components (%)									6.8%	68.4%	24.9%	59.6%	40.4%	100.0%	
	Unit Rate	each								1,538.01	15,517.71	5,644.29	13,524.38	9,175.62	22,700.00	

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

W1102 Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	352.49	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	8,424.51	0.00	5,897.16	2,527.35	8,424.51	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	57.44	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	1,160.29	0.00	812.20	348.09	1,160.29	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	day	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	day	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.63	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	51.95	63.88	405.34	274.88	266.29	541.17	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		99.63	2,241.78	2,640.32	2,739.96	2,241.78	4,981.74	30.0%
	Total									1,525.89	14,591.31	5,470.33	12,795.56	8,791.97	21,587.53	
	Components (%)									7.1%	67.6%	25.3%	59.3%	40.7%	100.0%	
	Unit Rate	each								1,526.77	14,599.74	5,473.49	12,802.95	8,797.05	21,600.00	

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

W1103 Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	55.97	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,337.68	0.00	936.38	401.30	1,337.68	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.12	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	9.90	15.98	77.21	52.36	50.72	103.08	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		43.66	982.34	1,156.98	1,200.64	982.34	2,182.98	30.0%
	Total									1,150.36	4,995.49	3,313.74	5,076.77	4,382.82	9,459.59	
	Components (%)									12.2%	52.8%	35.0%	53.7%	46.3%	100.0%	
	Unit Rate	each								1,150.40	4,995.71	3,313.89	5,076.99	4,383.01	9,460.00	

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

W1104 Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	45.26	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	1,081.71	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%	70.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.11	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	9.07	14.65	70.77	48.00	46.49	94.49	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		42.07	946.63	1,114.92	1,156.99	946.63	2,103.62	30.0%
	Total									1,147.94	4,702.48	3,265.24	4,849.57	4,266.09	9,115.67	
	Components (%)									12.6%	51.6%	35.8%	53.2%	46.8%	100.0%	
	Unit Rate	each								1,148.49	4,704.71	3,266.80	4,851.88	4,268.12	9,120.00	

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

W1105 Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60	
M02031	Steel Pipe	kg	40.01	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	956.24	0.00	669.37	286.87	956.24	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	21.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	5.36	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	Loss 5.0%
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	day	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.10	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	8.25	13.31	64.34	43.63	42.27	85.90	
	Miscellaneous	LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.27	928.53	1,093.60	1,134.87	928.53	2,063.40	30.0%
	Total									1,146.31	4,557.58	3,237.50	4,735.26	4,206.13	8,941.39	
	Components (%)									12.8%	51.0%	36.2%	53.0%	47.0%	100.0%	
	Unit Rate	each								1,146.14	4,556.87	3,236.99	4,734.53	4,205.47	8,940.00	

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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	231.21	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,525.92	0.00	3,868.14	1,657.78	5,525.92	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	31.08	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	627.82	0.00	439.47	188.35	627.82	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	day	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	day	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.41	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	10.0%	30.0%	60.0%	50.0%	50.0%		387.87	1,163.62	2,327.25	1,939.37	1,939.37	3,878.75	30.0%
	Total									1,739.38	10,052.80	5,015.71	9,497.24	7,310.65	16,807.90	
	Components (%)									10.3%	59.8%	29.8%	56.5%	43.5%	100.0%	
	Unit Rate	each								1,738.57	10,048.08	5,013.35	9,492.78	7,307.22	16,800.00	

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

W1202 Street Lighting Pole (double lamp), furnished — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	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	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
M02031	Steel Pipe	kg	243.92	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,829.69	0.00	4,080.78	1,748.91	5,829.69	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	37.28	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	753.06	0.00	527.14	225.92	753.06	Loss 5.0%
M02011	Structural Steel (Round Bar, SS400)	kg	8.51	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	185.52	0.00	129.86	55.66	185.52	Loss 5.0%
R0901-025	Welding Machine 250A	day	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	day	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Cargo truck 9.0-10.0t	hr	0.44	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	36.28	58.58	283.09	191.98	185.98	377.96	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		401.52	1,204.55	2,409.11	2,007.59	2,007.59	4,015.18	30.0%
	Total									1,755.50	10,526.74	5,116.87	9,878.85	7,520.26	17,399.11	
	Components (%)									10.1%	60.5%	29.4%	56.8%	43.2%	100.0%	
	Unit Rate	each								1,755.59	10,527.27	5,117.13	9,879.36	7,520.64	17,400.00	

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

W2001 Heavy Equipment Assembly & Disassembly Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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%	50.7%	49.3%	879.00	1,437.59	1,420.47	14,256.07	8,668.86	8,445.27	17,114.13	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	18.61	6.9%	7.7%	85.4%	51.5%	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	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	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	0.00	5.0%	7.3%	87.7%	52.2%	47.8%	1,470.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-035	Truck Crane, Hydraulic 31-35t	hr	0.00	4.4%	6.5%	89.1%	52.7%	47.3%	1,670.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	904.24	904.24	994.66	813.81	1,808.47	4.0%
	Total									10,996.49	3,857.99	32,165.75	19,909.08	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	32,151.91	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 11-15t	16-20t	21-25t	26-30t	31-35t	Wz (t)	Wb (t)
Bulldozer	15t	0	14.6	0	0.00					14.60	0.00
Labor = 0.0797Wk + 0.01	21t	3	21.9	5.27	3.41					20.56	1.34
Crane operation days = 0.0322Wk + 0.43											
Remaining Part Weight Wz = 0.4295Wk + 11.15											
Crawler Crane	22.5t	0	26.6	0		0.00				20.77	5.83
Labor = 0.2063Wk + 0.05	25~27t	0	27.8	0		0.00				20.93	6.87
Crane operation days = 0.0218Wk + 0.84	35~37t	2	36.2	15.04		3.26				22.09	14.11
Remaining Part Weight Wz = 0.1379Wk + 17.10	40t	0	41.1	0			0.00			22.77	18.33
	50t	0	49.8	0			0.00			23.97	25.83
	60t	0	65.6	0				0.00		26.15	39.45
All Casing Excavator											
Labor = 0.1183Wk + 2.82	φ1200max	0	24.0	0	0.00					22.36	1.64
Crane operation days = 0.0376Wk + 0.86	φ1500max	0	39.9		0.00					24.89	15.01
Remaining Part Weight Wz = 0.1589Wk + 18.55	φ2000max	0	49.0			0.00				26.34	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		

Remaining Part Weight Wb = Wk - Wz

W2002 Transportation of Disassembled Equipment Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	64.90	2.3%	8.2%	89.5%	53.9%	46.1%	2,700.00	4,030.29	14,368.86	156,830.85	94,493.86	80,736.14	175,230.00	
R0602-009	Cargo truck 9.0-10.0t	hr	51.92	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	4,281.53	6,912.89	33,404.86	22,653.93	21,945.35	44,599.28	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									8,311.82	21,281.75	190,235.71	117,147.79	102,681.49	219,829.28	
	Components (%)									3.8%	9.7%	86.5%	53.3%	46.7%	100.0%	
	Unit Rate	LS								8,318.28	21,298.28	190,383.45	117,238.77	102,761.23	220,000.00	

		No.	Wz (t)	Wb (t)	n·Wb	Trips of Trailer 20t	45t	Cargo Truck 9.0-10.0t
Bulldozer	15t	0	14.60	0.00	0	0	0	
	21t	3	20.56	1.34	4.02	0	3	
Crawler Crane	22.5t	0	20.77	5.83	0	0	0	
	25~27t	0	20.93	6.87	0	0	0	
	35~37t	2	22.09	14.11	28.22	0	2	
	40t	0	22.77	18.33	0	0	0	
	50t	0	23.97	25.83	0	0	0	
	60t	0	26.15	39.45	0	0	0	
All Casing Excavator	φ1200max	0	22.36	1.64	0	0	0	
	φ1500max	0	24.89	15.01	0	0	0	
	φ2000max	0	26.34	22.66	0	0	0	
Total Trips					32.24	0	5	4 (= Σn·Wb/9.5/0.85)

Travel hour/trip = a + 2·L/V = 12.98 hr

a: Loading Time = 0.50 hr
L: Travel Distance = 156.00 km
V: Travel Speed = 25.00 km/hr

W2003 Other Equipment & Material Haulage Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
R0604-020	Trailer 20t	hr	12.98	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	823.71	2,319.40	18,533.49	11,554.97	10,121.63	21,676.60	
R0602-009	Cargo truck 9.0-10.0t	hr	259.60	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	21,407.65	34,564.44	167,024.30	113,269.66	109,726.74	222,996.40	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	1,223.37	1,223.37	1,345.70	1,101.03	2,446.73	1.0%
	Total									22,231.37	38,107.20	186,781.16	126,170.34	120,949.39	247,119.73	
	Components (%)									9.0%	15.4%	75.6%	51.1%	48.9%	100.0%	
	Unit Rate	LS								22,220.59	38,088.74	186,690.67	126,109.21	120,890.79	247,000.00	

Number of Trips
Trailer 20t = 1 trip
Cargo truck 9.0-10.0t = 20 trip

Travel hour/trip = a + 2·L/V = 12.98 hr
a: Loading Time = 0.50 hr
L: Travel Distance = 156.00 km
V: Travel Speed = 25.00 km/hr

W2004 Establishment of Temporary Site Office & Yard Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
	Temporary Site Office/Yard	m2	2,800.00	10.0%	50.0%	40.0%	45.0%	55.0%	220.00	61,600.00	308,000.00	246,400.00	277,200.00	338,800.00	616,000.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									61,600.00	308,000.00	246,400.00	277,200.00	338,800.00	616,000.00	
	Components (%)									10.0%	50.0%	40.0%	45.0%	55.0%	100.0%	
	Unit Rate	LS								61,600.00	308,000.00	246,400.00	277,200.00	338,800.00	616,000.00	

W3001 Site Preparation for Engineer's Field Office and Living Quarters Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
W0101	Excavation, Bulldozer 21t	m3	10.00	1.5%	8.2%	90.3%	54.4%	45.6%	25.30	3.80	20.75	228.46	137.64	115.36	253.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									3.80	20.75	228.46	137.64	115.36	253.00	
	Components (%)	,								1.5%	8.2%	90.3%	54.4%	45.6%	100.0%	
	Unit Rate	m2								0.04	0.21	2.28	1.38	1.15	2.53	
	Excavation depth	=	0.100													

W3002 150mm Thick Concrete Hollow Block Wall Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L007	Masonry	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	185.20	
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	
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	128.00	0.0%	100.0%	0.0%	25.0%	75.0%	12.00	0.00	1,536.00	0.00	384.00	1,152.00	1,536.00	Loss 2.0%
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	25.30	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	89.52	453.94	46.03	318.29	271.20	589.49	
W0221	Mortar (1:3)	m3	0.46	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	14.11	786.66	41.03	488.56	353.24	841.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	16.39	16.39	18.03	14.75	32.78	1.0%
	Total									414.44	2,792.99	103.45	1,208.89	2,101.98	3,310.87	
	Components (%)									12.5%	84.4%	3.1%	36.5%	63.5%	100.0%	
	Unit Rate	m2								41.43	279.23	10.34	120.86	210.14	331.00	

W3002a 100mm Thick Concrete Hollow Block Wall Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L007	Masonry	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	185.20	
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	
M12011	Concrete Hollow Block (load bearing) 4"x8"x16" (100x200x400mm)	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	Loss 2.0%
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	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	Mortar (1:3)	m3	0.46	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	14.11	786.66	41.03	488.56	353.24	841.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	12.09	18.13	16.62	13.60	30.22	1.0%
	Total									414.44	2,532.68	105.19	1,143.48	1,908.83	3,052.31	
	Components (%)									13.6%	83.0%	3.4%	37.5%	62.5%	100.0%	
	Unit Rate	m2								41.41	253.08	10.51	114.26	190.74	305.00	

W3003 Structural Steel Fabrication and Erection for Engineers Office and Living Quarter — Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	500.00	0.00	0.00	0.00	500.00	500.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	471.00	0.00	0.00	0.00	471.00	471.00	
M02014	Structural Steel (Shapes, SS400)	kg	420.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	7,392.00	0.00	5,174.40	2,217.60	7,392.00	Loss 5.0%
M02015	Structural Steel (Plates, SS400)	kg	630.00	0.0%	100.0%	0.0%	70.0%	30.0%	20.20	0.00	12,726.00	0.00	8,908.20	3,817.80	12,726.00	Loss 5.0%
M02071	High Tension Bolt M16	each	8.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	148.00	0.00	103.60	44.40	148.00	
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-100	Generator 51-100 kW	day	1.00	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,253.54	1,436.46	1,594.40	1,095.60	2,690.00	
R0402-030	Truck Crane, Hydraulic 26-30t	hr	2.86	5.0%	7.3%	87.7%	52.2%	47.8%	1,470.00	210.21	306.91	3,687.08	2,195.28	2,008.92	4,204.20	
R0604-020	Trailer 20t	hr	0.65	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	41.25	116.15	928.10	578.64	506.86	1,085.50	
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	55.0%	45.0%		920.77	4,143.45	4,143.45	5,064.21	4,143.45	9,207.66	30.0%
	Total									3,030.73	26,320.07	10,549.07	23,963.21	15,936.65	39,899.86	
	Components (%)									7.6%	66.0%	26.4%	60.1%	39.9%	100.0%	
	Unit Rate	t								3,030.74	26,320.16	10,549.11	23,963.30	15,936.70	39,900.00	

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

W3004 Prepainted Corrugated G.I. Roofing Fabrication & Erection — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,466.40	4,977.60	12,444.00	Loss 2.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
R0604-020	Trailer 20t	hr	0.12	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	7.62	21.41	171.34	106.83	93.57	200.40	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	157.48	157.48	173.23	141.73	314.96	2.0%
	Total									1,313.72	12,752.25	1,996.79	8,734.71	7,328.05	16,062.76	
	Components (%)									8.2%	79.4%	12.4%	54.4%	45.6%	100.0%	
	Unit Rate	m2								13.17	127.82	20.01	87.55	73.45	161.00	

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

W3005 Prepainted Steel Wall Panels on Steel Frames with Insulation — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	250.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12112	Corrugated Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	122.00	0.00	12,444.00	0.00	7,466.40	4,977.60	12,444.00	Loss 2.0%
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 (Shapes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00	Loss 2.0%
R0901-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	176.99	172.24	121.76	294.00	
R1001-100	Generator 51-100 kW	day	0.50	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	311.07	311.07	342.18	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	m2								15.55	583.72	28.73	390.12	237.88	628.00	

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

W3006 Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling) — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L009	Welder	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	250.00	0.00	0.00	0.00	250.00	250.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
L020	Unskilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	314.00	0.00	0.00	0.00	314.00	314.00	
M12111	Galvanized Iron Sheet, colored	m2	102.00	0.0%	100.0%	0.0%	60.0%	40.0%	118.00	0.00	12,036.00	0.00	7,221.60	4,814.40	12,036.00	Loss 2.0%
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 (Shapes, SS400)	kg	1,530.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	26,928.00	0.00	18,849.60	8,078.40	26,928.00	Loss 2.0%
M12211	Insulation, Grasswool	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	57.00	0.00	5,814.00	0.00	3,197.70	2,616.30	5,814.00	Loss 2.0%
R0901-025	Welding Machine 250A	day	0.50	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	117.01	176.99	172.24	121.76	294.00	
R1001-100	Generator 51-100 kW	day	0.50	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	626.77	718.23	797.20	547.80	1,345.00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	309.03	309.03	339.94	278.13	618.06	1.0%
	Total									1,556.10	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	m2								15.55	579.73	28.71	387.73	236.27	624.00	

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

W3007 Plain Cement Floor Finish — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	93.87	5,232.98	272.95	3,250.00	2,349.80	5,599.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	179.65	179.65	197.61	161.68	359.30	6.0%
	Total									482.37	5,412.63	452.60	3,447.61	2,899.98	6,347.60	
	Components (%)									7.6%	85.3%	7.1%	54.3%	45.7%	100.0%	
	Unit Rate	m2								4.83	54.15	4.53	34.49	29.01	63.50	

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

W3008 Plain Cement Floor Finish with non skid cement with groove lines — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	188.40	0.00	0.00	0.00	188.40	188.40	
W0221	Mortar (1:3)	m3	3.06	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	93.87	5,232.98	272.95	3,250.00	2,349.80	5,599.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	180.59	180.59	198.65	162.53	361.18	6.0%
	Total									513.77	5,413.57	453.54	3,448.65	2,932.23	6,380.88	
	Components (%)									8.1%	84.8%	7.1%	54.0%	46.0%	100.0%	
	Unit Rate	m2								5.14	54.13	4.53	34.48	29.32	63.80	

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

W3009 Unglazed Tile Finish (8" x 8") — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	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	
M12051	Unglazed Tile 200x200m	each	2,550.00	0.0%	100.0%	0.0%	40.0%	60.0%	21.20	0.00	54,060.00	0.00	21,624.00	32,436.00	54,060.00	Loss 2.0%
W0221	Mortar (1:3)	m3	2.04	1.7%	93.4%	4.9%	58.0%	42.0%	1,830.00	62.58	3,488.65	181.97	2,166.67	1,566.53	3,733.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	291.69	291.69	320.86	262.52	583.39	1.0%
	Total									608.08	57,840.35	473.66	24,111.53	34,810.56	58,922.09	
	Components (%)									1.0%	98.2%	0.8%	40.9%	59.1%	100.0%	
	Unit Rate	m2								6.08	578.19	4.73	241.02	347.98	589.00	

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

W3010 Gypsum Board Ceiling — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate Total (PP)	Amount Component (PP) Labor	Material	Equipment	Foreign	Local	Amount Total (PP)	Remarks
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	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80	
M12221	Gypsum Board Ceiling	m2	102.00	0.0%	100.0%	0.0%	55.0%	45.0%	137.00	0.00	13,974.00	0.00	7,685.70	6,288.30	13,974.00	Loss 2.0%
M02014	Structural Steel (Shapes, SS400)	kg	816.00	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	14,361.60	0.00	10,053.12	4,308.48	14,361.60	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%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	173.64	173.64	191.00	156.28	347.28	1.0%
	Total									578.30	34,323.24	173.64	21,127.52	13,947.66	35,075.18	
	Components (%)									1.6%	97.9%	0.5%	60.2%	39.8%	100.0%	
	Unit Rate	m2								5.79	343.48	1.74	211.42	139.58	351.00	

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

W3011 Plain Cement Mortar Wall Finish Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	93.87	5,232.98	272.95	3,250.00	2,349.80	5,599.80	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	182.48	182.48	200.72	164.23	364.95	6.0%
	Total									576.57	5,415.46	455.42	3,450.72	2,996.73	6,447.45	
	Components (%)									8.9%	84.0%	7.1%	53.5%	46.5%	100.0%	
	Unit Rate	m2								5.77	54.18	4.56	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L009	Welder	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	400.00	0.00	0.00	0.00	400.00	400.00	
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	1.00	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	Loss 2.0%
R0901-025	Welding Machine 250A	day	0.80	0.0%	39.8%	60.2%	58.6%	41.4%	588.00	0.00	187.22	283.18	275.59	194.81	470.40	
R1001-100	Generator 51-100 kW	day	0.80	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00	0.00	1,002.83	1,149.17	1,275.52	876.48	2,152.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.37	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	101.15	112.87	1,251.88	754.24	711.66	1,465.90	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	821.52	821.52	903.67	739.37	1,643.03	30.0%
	Total									1,056.95	2,557.12	3,505.74	3,511.89	3,607.92	7,119.81	
	Components (%)									14.8%	35.9%	49.2%	49.3%	50.7%	100.0%	
	Unit Rate	each								1,056.97	2,557.19	3,505.84	3,511.98	3,608.02	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,999.80	0.00	0.00	0.00	2,999.80	2,999.80	
L019	Skilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	6,407.70	0.00	0.00	0.00	6,407.70	6,407.70	
L020	Unskilled Labor	md	15.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	4,992.60	0.00	0.00	0.00	4,992.60	4,992.60	
M12251	Steel Door with Steel Panels 900x2100mm	each	7.00	0.0%	100.0%	0.0%	45.0%	55.0%	5,530.00	0.00	38,710.00	0.00	17,419.50	21,290.50	38,710.00	
M12252	Flush Type Hollow Core Door with 6mm thick ordinary plywood 800x2100mm	each	8.00	0.0%	100.0%	0.0%	20.0%	80.0%	2,500.00	0.00	20,000.00	0.00	4,000.00	16,000.00	20,000.00	
M12253	Flush Type Hollow Core Door with 6mm thick marine plywood 600x2100mm	each	6.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,870.00	0.00	11,220.00	0.00	2,244.00	8,976.00	11,220.00	
M12261	Jalousie Window with Steel Blades 2100x1500mm	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,750.00	0.00	33,750.00	0.00	15,187.50	18,562.50	33,750.00	
M12262	Jalousie Window with Steel Blades 3900x1500mm	each	16.00	0.0%	100.0%	0.0%	45.0%	55.0%	12,500.00	0.00	200,000.00	0.00	90,000.00	110,000.00	200,000.00	
M12263	Jalousie Window with Steel Blades 1400x900	each	2.00	0.0%	100.0%	0.0%	45.0%	55.0%	2,640.00	0.00	5,280.00	0.00	2,376.00	2,904.00	5,280.00	
M12264	Jalousie Window with Steel Blades 820x250	each	5.00	0.0%	100.0%	0.0%	45.0%	55.0%	458.00	0.00	2,290.00	0.00	1,030.50	1,259.50	2,290.00	
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	14,432.07	28,480.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	354.13	354.13	389.54	318.72	708.26	0.2%
	Total									18,628.00	321,832.89	14,377.47	146,694.97	208,143.39	354,838.36	
	Components (%)									5.2%	90.7%	4.1%	41.3%	58.7%	100.0%	
	Unit Rate	L.S.								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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L012	Electrician	md	8.00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	3,368.00	0.00	0.00	0.00	3,368.00	3,368.00	
L019	Skilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,612.00	0.00	0.00	0.00	1,612.00	1,612.00	
L020	Unskilled Labor	md	4.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,256.00	0.00	0.00	0.00	1,256.00	1,256.00	
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	40.00	0.0%	100.0%	0.0%	60.0%	40.0%	496.00	0.00	19,840.00	0.00	11,904.00	7,936.00	19,840.00	
M13141	Ceiling Lamp, SL-18 with Hexless Type, Medium Base Porcelain Receptacle	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%	60.0%	40.0%	58.40	0.00	10,220.00	0.00	6,132.00	4,088.00	10,220.00	
	Miscellaneous	LS	1.00	5.0%	20.0%	75.0%	50.0%	50.0%		135.77	543.09	2,036.59	1,357.73	1,357.73	2,715.46	2.0%
	Total									6,937.77	129,513.99	2,036.59	78,435.50	60,052.85	138,488.36	
	Components (%)									5.0%	93.5%	1.5%	56.6%	43.4%	100.0%	
	Unit Rate	L.S.								6,913.31	129,057.28	2,029.41	78,158.91	59,841.09	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						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	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, φ100	m	120.00	0.0%	100.0%	0.0%	50.0%	50.0%	200.00	0.00	24,000.00	0.00	12,000.00	12,000.00	24,000.00	
M08701	Steel Gas Pipe, φ25	m	90.00	0.0%	100.0%	0.0%	60.0%	40.0%	117.00	0.00	10,530.00	0.00	6,318.00	4,212.00	10,530.00	
M08302	PVC Pipe, φ50	m	45.00	0.0%	100.0%	0.0%	50.0%	50.0%	66.70	0.00	3,001.50	0.00	1,500.75	1,500.75	3,001.50	
M12271	Floor Drain	each	4.00	0.0%	100.0%	0.0%	45.0%	55.0%	266.00	0.00	1,064.00	0.00	478.80	585.20	1,064.00	
M12272	Urinal	each	1.00	0.0%	100.0%	0.0%	55.0%	45.0%	2,310.00	0.00	2,310.00	0.00	1,270.50	1,039.50	2,310.00	
M12273	Toilet Stool	each	6.00	0.0%	100.0%	0.0%	55.0%	45.0%	5,110.00	0.00	30,660.00	0.00	16,863.00	13,797.00	30,660.00	
M12274	Lavatory Wash Basin	each	4.00	0.0%	100.0%	0.0%	55.0%	45.0%	2,920.00	0.00	11,680.00	0.00	6,424.00	5,256.00	11,680.00	
M12275	Shower	each	3.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,120.00	0.00	6,360.00	0.00	3,180.00	3,180.00	6,360.00	
M12276	Shower Drain	each	3.00	0.0%	100.0%	0.0%	45.0%	55.0%	343.00	0.00	1,029.00	0.00	463.05	565.95	1,029.00	
M12277	Clean Out	each	9.00	0.0%	100.0%	0.0%	45.0%	55.0%	319.00	0.00	2,871.00	0.00	1,291.95	1,579.05	2,871.00	
M12278	Sink (1 basin with table)	each	1.00	0.0%	100.0%	0.0%	45.0%	55.0%	6,230.00	0.00	6,230.00	0.00	2,803.50	3,426.50	6,230.00	
M12279	Kitchen Sink (1 basin + flat with	each	1.00	0.0%	100.0%	0.0%	45.0%	55.0%	9,010.00	0.00	9,010.00	0.00	4,054.50	4,955.50	9,010.00	
	Miscellaneous	LS	1.00	5.0%	25.0%	70.0%	50.0%	50.0%		56.90	284.48	796.54	568.96	568.96	1,137.92	1.0%
	Total									5,102.90	109,029.98	796.54	57,217.01	57,712.41	114,929.42	
	Components (%)									4.4%	94.9%	0.7%	49.8%	50.2%	100.0%	
	Unit Rate	L.S.								5,106.03	109,096.94	797.03	57,252.15	57,747.85	115,000.00	

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

W3016 Septic Tank — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0105	Excavation, Backhoe 0.6lm3	m3	24.57	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	44.22	84.41	876.28	531.38	473.53	1,004.91	
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%	51.3%	48.7%	111.00	104.05	136.17	1,119.54	697.15	662.60	1,359.75	
W0161	Gravel Foundation Fill	m3	0.82	24.1%	13.3%	62.6%	39.5%	60.5%	409.00	80.84	44.66	209.87	132.62	202.76	335.38	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.67	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	67.53	2,166.41	454.76	1,525.80	1,162.90	2,688.70	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	355.18	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 H<4m)	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	3,267.28	331.28	2,290.97	1,951.96	4,242.93	
W3002	150mm Thick Concrete Hollow Block Wall	m2	19.62	12.5%	84.4%	3.1%	36.5%	63.5%	331.00	812.91	5,478.40	202.91	2,371.21	4,123.01	6,494.22	
W3011	Plain Cement Mortar Wall Finish	m2	21.78	8.9%	84.0%	7.1%	53.5%	46.5%	64.50	125.63	1,179.95	99.23	751.86	652.95	1,404.81	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									2,963.79	13,147.51	4,545.86	9,127.37	11,529.79	20,657.16	
	Components (%)									14.3%	63.6%	22.0%	44.2%	55.8%	100.0%	
	Unit Rate	each								2,969.94	13,174.78	4,555.29	9,146.29	11,553.71	20,700.00	

W3017 Cyclone Fence and Gate for the Engineer's Office — Unit: 40.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0102	Excavation, Backhoe 0.35m3	m3	15.58	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	49.26	64.65	655.74	398.73	370.92	769.65	
W0111	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	104.16	
W0132	Backfill B	m3	14.46	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	122.82	160.73	1,321.51	822.92	782.14	1,605.06	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1.14	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	46.10	1,478.87	310.44	1,041.57	793.83	1,835.40	Loss 2.0%
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	242.56	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 H<4m)	m2	13.60	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	1,806.09	1,216.42	23.89	88.90	2,957.50	3,046.40	
M08706	Steel Gas Pipe, ϕ80	m	10.80	0.0%	100.0%	0.0%	60.0%	40.0%	294.00	0.00	3,175.20	0.00	1,905.12	1,270.08	3,175.20	
M08704	Steel Gas Pipe, ϕ50	m	18.20	0.0%	100.0%	0.0%	60.0%	40.0%	217.00	0.00	3,949.40	0.00	2,369.64	1,579.76	3,949.40	
M02001	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	
M12101	Chain Link Fence Fabric	m	40.00	0.0%	100.0%	0.0%	50.0%	50.0%	1,460.00	0.00	58,400.00	0.00	29,200.00	29,200.00	58,400.00	
L002	Foreman	md	0.08	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	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	0.0%
	Total									2,355.70	68,773.56	2,635.29	36,213.93	37,550.62	73,764.55	
	Components (%)									3.2%	93.2%	3.6%	49.1%	50.9%	100.0%	
	Unit Rate	m								58.76	1,715.50	65.74	903.33	936.67	1,840.00	

W3018 Barbed Wire Fence for the Engineer's Office — Unit: 130.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	
M02062	Barbed Wire	m	1,060.80	0.0%	100.0%	0.0%	35.0%	65.0%	2.50	0.00	2,652.00	0.00	928.20	1,723.80	2,652.00	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%		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%	85.3%	100.0%	
	Unit Rate	m								6.89	117.89	2.22	18.61	108.39	127.00	

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

W3101 Miscellaneous for Office & Living Quarter Maintenance — Unit: 28.00 month

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	
	Mop Rod with rag	each	4.00	0.0%	0.0%	100.0%	30.0%	70.0%	360.00	0.00	0.00	1,440.00	432.00	1,008.00	1,440.00	
	Bucket	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	100.00	0.00	0.00	400.00	100.00	300.00	400.00	
	Dust Pan	each	4.00	0.0%	0.0%	100.0%	25.0%	75.0%	115.00	0.00	0.00	460.00	115.00	345.00	460.00	
	Iron	each	1.00	0.0%	0.0%	100.0%	70.0%	30.0%	1,100.00	0.00	0.00	1,100.00	770.00	330.00	1,100.00	
	Iron Table	each	1.00	0.0%	0.0%	100.0%	30.0%	70.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Power Plunge	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	
	Mop Rag	each	112.00	0.0%	100.0%	0.0%	15.0%	85.0%	65.00	0.00	7,280.00	0.00	1,092.00	6,188.00	7,280.00	4.0/month
	Laundry Detergent, 1.6kg	sack	47.60	0.0%	100.0%	0.0%	25.0%	75.0%	148.00	0.00	7,044.80	0.00	1,761.20	5,283.60	7,044.80	1.7/month
	Bathroom Cleaner, 500ml	bottle	16.80	0.0%	100.0%	0.0%	30.0%	70.0%	55.00	0.00	924.00	0.00	277.20	646.80	924.00	0.6/month
	Power Cleanser, 350g	bottle	25.20	0.0%	100.0%	0.0%	30.0%	70.0%	23.00	0.00	579.60	0.00	173.88	405.72	579.60	0.9/month
	Electric Bulb, 50-100W	each	112.00	0.0%	100.0%	0.0%	55.0%	45.0%	23.00	0.00	2,576.00	0.00	1,416.80	1,159.20	2,576.00	4.0/month
	Fluorescent Tube, 20W	each	84.00	0.0%	100.0%	0.0%	60.0%	40.0%	64.00	0.00	5,376.00	0.00	3,225.60	2,150.40	5,376.00	3.0/month
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%		0.00	425.15	425.15	425.15	425.15	850.30	3.0%
	Total									0.00	24,205.55	4,988.15	10,076.63	19,117.07	29,193.70	
	Components (%)									0.0%	82.9%	17.1%	34.5%	65.5%	100.0%	
	Unit Rate	month								0.00	862.30	177.70	358.97	681.03	1,040.00	

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

W3102 Furniture and Fixtures for Field Office — Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Executive Desk	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,300.00	0.00	8,600.00	0.00	1,290.00	7,310.00	8,600.00	
	Office Desk	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	4,000.00	0.00	40,000.00	0.00	6,000.00	34,000.00	40,000.00	
	Drafting Table	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,200.00	0.00	2,200.00	0.00	330.00	1,870.00	2,200.00	
	Typist Table	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	2,700.00	0.00	405.00	2,295.00	2,700.00	
	Computer Table	Unit	4.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,200.00	0.00	8,800.00	0.00	1,320.00	7,480.00	8,800.00	
	Conference Table	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	9,500.00	0.00	9,500.00	0.00	1,425.00	8,075.00	9,500.00	
	Executive Chair	each	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	7,200.00	0.00	14,400.00	0.00	2,880.00	11,520.00	14,400.00	
	Office Chair	each	15.00	0.0%	100.0%	0.0%	20.0%	80.0%	3,500.00	0.00	52,500.00	0.00	10,500.00	42,000.00	52,500.00	
	Stacking Chair	each	12.00	0.0%	100.0%	0.0%	15.0%	85.0%	700.00	0.00	8,400.00	0.00	1,260.00	7,140.00	8,400.00	
	Steel Cabinet, 5 drawers for drawings	each	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	8,600.00	0.00	8,600.00	0.00	2,150.00	6,450.00	8,600.00	
	Steel Cabinet, 4 drawers	each	9.00	0.0%	100.0%	0.0%	20.0%	80.0%	5,400.00	0.00	48,600.00	0.00	9,720.00	38,880.00	48,600.00	
	Steel Cabinet (Locker), 2 doors	each	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,500.00	0.00	18,000.00	0.00	3,600.00	14,400.00	18,000.00	
	Table for Office Copier	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	2,700.00	0.00	405.00	2,295.00	2,700.00	
	Air Conditioning Unit, 5.0HP floor mounted	Unit	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	60,000.00	0.00	60,000.00	0.00	42,000.00	18,000.00	60,000.00	
	Air Conditioning Unit, 2.5 HP Window Type	Unit	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	27,400.00	0.00	27,400.00	0.00	19,180.00	8,220.00	27,400.00	
	Venetian Blinds	m2	55.22	0.0%	100.0%	0.0%	65.0%	35.0%	293.00	0.00	16,179.46	0.00	10,516.65	5,662.81	16,179.46	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		492.87	164.29	2,628.64	1,642.90	1,642.90	3,285.79	1.0%
	Total									492.87	328,743.75	2,628.64	114,624.55	217,240.71	331,865.25	
	Components (%)									0.1%	99.1%	0.8%	34.5%	65.5%	100.0%	
	Unit Rate	L.S.								493.07	328,877.23	2,629.70	114,671.09	217,328.91	332,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3103 Equipment and Appliances for Field Office Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Typewriter	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	6,600.00	0.00	6,600.00	0.00	4,950.00	1,650.00	6,600.00	
	Scientific Calculator	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	940.00	0.00	9,400.00	0.00	6,580.00	2,820.00	9,400.00	
	Desk Type Calculator	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	570.00	0.00	570.00	0.00	399.00	171.00	570.00	
	Drafting Instrument	set	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	7,700.00	0.00	7,700.00	0.00	5,390.00	2,310.00	7,700.00	
	Photo Copier	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Desk Top PC	set	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	46,000.00	0.00	138,000.00	0.00	103,500.00	34,500.00	138,000.00	
	Color Laser Printer	set	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	20,000.00	0.00	20,000.00	0.00	15,000.00	5,000.00	20,000.00	
	Magnetic Whiteboard	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	3,200.00	0.00	3,200.00	0.00	2,080.00	1,120.00	3,200.00	
	Camera	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	5,800.00	0.00	5,800.00	0.00	4,350.00	1,450.00	5,800.00	
	Electric Stand Fan	each	2.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	2,400.00	0.00	1,440.00	960.00	2,400.00	
	Fire Extinguisher	each	2.00	0.0%	100.0%	0.0%	50.0%	50.0%	2,100.00	0.00	4,200.00	0.00	2,100.00	2,100.00	4,200.00	
	Wall Clock	each	1.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,400.00	0.00	1,400.00	0.00	840.00	560.00	1,400.00	
	Electric Air Pot	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	1,350.00	0.00	1,350.00	0.00	945.00	405.00	1,350.00	
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	30.0%	70.0%	490.00	0.00	980.00	0.00	294.00	686.00	980.00	
	Waste Paper Bin	each	9.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	900.00	0.00	135.00	765.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	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	L.S.								334.16	222,883.66	1,782.18	164,316.33	60,683.67	225,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Single Bed	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	2,600.00	0.00	7,800.00	0.00	1,560.00	6,240.00	7,800.00	
	Double Deck Bed	each	5.00	0.0%	100.0%	0.0%	20.0%	80.0%	4,500.00	0.00	22,500.00	0.00	4,500.00	18,000.00	22,500.00	
	Night Table	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	2,700.00	0.00	35,100.00	0.00	5,265.00	29,835.00	35,100.00	
	Chairs	each	13.00	0.0%	100.0%	0.0%	20.0%	80.0%	1,650.00	0.00	21,450.00	0.00	4,290.00	17,160.00	21,450.00	
	Wardrobe Cabinet	each	8.00	0.0%	100.0%	0.0%	15.0%	85.0%	3,600.00	0.00	28,800.00	0.00	4,320.00	24,480.00	28,800.00	
	Dining Table Set with 6 chairs	each	2.00	0.0%	100.0%	0.0%	15.0%	85.0%	10,600.00	0.00	21,200.00	0.00	3,180.00	18,020.00	21,200.00	
	Lounge Sofa Set (3+1+1+Center Table)	set	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	12,400.00	0.00	12,400.00	0.00	1,860.00	10,540.00	12,400.00	
	Cupboard	each	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	5,400.00	0.00	5,400.00	0.00	810.00	4,590.00	5,400.00	
	Air Conditioning Unit, 1.0 HP Window Type	Unit	3.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,300.00	0.00	42,900.00	0.00	32,175.00	10,725.00	42,900.00	
	Venetian Blinds	m2	57.68	0.0%	100.0%	0.0%	60.0%	40.0%	293.00	0.00	16,898.78	0.00	10,139.27	6,759.51	16,898.78	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		321.67	107.22	1,715.59	1,072.24	1,072.24	2,144.49	1.0%
	Total									321.67	214,556.00	1,715.59	69,171.51	147,421.76	216,593.27	
	Components (%)									0.1%	99.1%	0.8%	31.9%	68.1%	100.0%	
	Unit Rate	L.S.								322.28	214,958.91	1,718.81	69,301.41	147,698.59	217,000.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3106 Equipment and Appliances for Living Quarter Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Mattress	each	13.00	0.0%	100.0%	0.0%	15.0%	85.0%	1,060.00	0.00	13,780.00	0.00	2,067.00	11,713.00	13,780.00	
	Pillow	each	13.00	0.0%	100.0%	0.0%	10.0%	90.0%	230.00	0.00	2,990.00	0.00	299.00	2,691.00	2,990.00	
	Bed Sheets	each	52.00	0.0%	100.0%	0.0%	10.0%	90.0%	250.00	0.00	13,000.00	0.00	1,300.00	11,700.00	13,000.00	
	Pillow Cover	each	26.00	0.0%	100.0%	0.0%	10.0%	90.0%	130.00	0.00	3,380.00	0.00	338.00	3,042.00	3,380.00	
	Refrigerator, 10 cuft	each	1.00	0.0%	100.0%	0.0%	75.0%	25.0%	14,900.00	0.00	14,900.00	0.00	11,175.00	3,725.00	14,900.00	
	Gas Stove, with 2 burners	Unit	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	2,000.00	0.00	2,000.00	0.00	1,300.00	700.00	2,000.00	
	Desk Lamp	each	13.00	0.0%	100.0%	0.0%	55.0%	45.0%	320.00	0.00	4,160.00	0.00	2,288.00	1,872.00	4,160.00	
	Electric Stand Fan	each	7.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,200.00	0.00	8,400.00	0.00	5,040.00	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	
	Bathroom Mirror	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	490.00	0.00	980.00	0.00	245.00	735.00	980.00	
	Waste Paper Bin	each	10.00	0.0%	100.0%	0.0%	15.0%	85.0%	100.00	0.00	1,000.00	0.00	150.00	850.00	1,000.00	
	Shower Curtain	each	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	300.00	0.00	900.00	0.00	180.00	720.00	900.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	50.0%	50.0%		130.11	43.37	693.92	433.70	433.70	867.40	1.0%
	Total									130.11	86,783.37	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	L.S.								130.10	86,776.04	693.86	34,892.75	52,707.25	87,600.00	

Miscellaneous covers the cost for delivery, installation, etc.

W3111 Office & Living Quarter Supplies Unit: 1.00 L.S.

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	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	200.00	400.00	
	Triangle Ruler	set	10.00	0.0%	100.0%	0.0%	35.0%	65.0%	40.00	0.00	400.00	0.00	140.00	260.00	400.00	
	Triangular Scale, 300mm	each	10.00	0.0%	100.0%	0.0%	50.0%	50.0%	75.00	0.00	750.00	0.00	375.00	375.00	750.00	
	Convex, 3.5m	each	10.00	0.0%	100.0%	0.0%	65.0%	35.0%	185.00	0.00	1,850.00	0.00	1,202.50	647.50	1,850.00	
	Measuring Tape, 50m steel	each	1.00	0.0%	100.0%	0.0%	65.0%	35.0%	1,860.00	0.00	1,860.00	0.00	1,209.00	651.00	1,860.00	
	Steel Ruler, 600mm	each	1.00	0.0%	100.0%	0.0%	50.0%	50.0%	300.00	0.00	300.00	0.00	150.00	150.00	300.00	
	Level, L=600mm	each	1.00	0.0%	100.0%	0.0%	70.0%	30.0%	540.00	0.00	540.00	0.00	378.00	162.00	540.00	
	Scissors	each	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	96.00	0.00	96.00	0.00	24.00	72.00	96.00	
	Paper Cutter	each	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	93.00	0.00	186.00	0.00	46.50	139.50	186.00	
	Stamp Pad	each	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	33.00	0.00	66.00	0.00	13.20	52.80	66.00	
	Flashlight	each	9.00	0.0%	100.0%	0.0%	30.0%	70.0%	235.00	0.00	2,115.00	0.00	634.50	1,480.50	2,115.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%		42.13	14.04	224.71	126.40	154.49	280.89	2.0%
	Total									42.13	14,058.54	224.71	7,288.23	7,037.16	14,325.39	
	Components (%)									0.3%	98.1%	1.6%	50.9%	49.1%	100.0%	
	Unit Rate	L.S.								42.06	14,033.63	224.31	7,275.31	7,024.69	14,300.00	

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

W3112 Office & Living Quarter Consumables — Unit: 1.00 month

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
	Staple. No.35	box	1.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.30	0.00	14.30	0.00	3.58	10.73	14.30	
	Staple. No.10	box	3.00	0.0%	100.0%	0.0%	25.0%	75.0%	4.50	0.00	13.50	0.00	3.38	10.13	13.50	
	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. 18mm x 25m	roll	4.00	0.0%	100.0%	0.0%	40.0%	60.0%	64.50	0.00	258.00	0.00	103.20	154.80	258.00	
	Masking Tape. 18mm x 20m	roll	0.50	0.0%	100.0%	0.0%	35.0%	65.0%	15.00	0.00	7.50	0.00	2.63	4.88	7.50	
	Pencil Lead. 0.5mm x 20 pcs	tube	11.00	0.0%	100.0%	0.0%	30.0%	70.0%	30.00	0.00	330.00	0.00	99.00	231.00	330.00	
	Pencil. 4 pcs	pack	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	6.00	0.00	18.00	0.00	2.70	15.30	18.00	
	Ball Point Pen. 3 pcs	pack	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	12.80	0.00	51.20	0.00	10.24	40.96	51.20	
	Marker Pen and/or Sign Pen	each	4.00	0.0%	100.0%	0.0%	25.0%	75.0%	26.00	0.00	104.00	0.00	26.00	78.00	104.00	
	Eraser. Rubber and/or sand	each	11.00	0.0%	100.0%	0.0%	20.0%	80.0%	27.00	0.00	297.00	0.00	59.40	237.60	297.00	
	Correction Fluid. 20ml	bottle	4.00	0.0%	100.0%	0.0%	20.0%	80.0%	39.00	0.00	156.00	0.00	31.20	124.80	156.00	
	Document File. A4 size x 5cm	each	11.00	0.0%	100.0%	0.0%	25.0%	75.0%	300.00	0.00	3,300.00	0.00	825.00	2,475.00	3,300.00	
	Document Folder. A4 size	each	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	11.00	0.00	242.00	0.00	24.20	217.80	242.00	
	Document Fastener. Steel or plastic, 5 pcs	pack	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	9.50	0.00	38.00	0.00	3.80	34.20	38.00	
	Notebook. A5 size. 80 sheets	book	10.00	0.0%	100.0%	0.0%	10.0%	90.0%	26.50	0.00	265.00	0.00	26.50	238.50	265.00	
	Notebook. A4 size. 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	40.00	0.00	440.00	0.00	44.00	396.00	440.00	
	Notepad. A4 size. 80 sheets	book	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	36.00	0.00	396.00	0.00	39.60	356.40	396.00	
	Copy Paper. A4 size. 500 sheets	ream	4.00	0.0%	100.0%	0.0%	10.0%	90.0%	138.00	0.00	552.00	0.00	55.20	496.80	552.00	
	Cross Section Paper. A4 size. 50 sheets	book	1.00	0.0%	100.0%	0.0%	15.0%	85.0%	38.00	0.00	38.00	0.00	5.70	32.30	38.00	
	Tracing Paper. 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	
	Typewriter Ribbon. Black/Red	each	1.00	0.0%	100.0%	0.0%	40.0%	60.0%	17.50	0.00	17.50	0.00	7.00	10.50	17.50	
	Envelope. Letter. long x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	19.50	0.00	429.00	0.00	42.90	386.10	429.00	
	Envelope. Letter. short x 20 sheets	pack	22.00	0.0%	100.0%	0.0%	10.0%	90.0%	13.00	0.00	286.00	0.00	28.60	257.40	286.00	
	Envelope. A4 size	pack	11.00	0.0%	100.0%	0.0%	10.0%	90.0%	35.00	0.00	385.00	0.00	38.50	346.50	385.00	
	Dry Battery. AA x 4 pcs	pack	6.00	0.0%	100.0%	0.0%	30.0%	70.0%	32.00	0.00	192.00	0.00	57.60	134.40	192.00	
	Paper Clip. 50g	box	2.00	0.0%	100.0%	0.0%	10.0%	90.0%	6.25	0.00	12.50	0.00	1.25	11.25	12.50	
	Binder Clip. 12 x 3/4"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	11.00	0.00	22.00	0.00	4.40	17.60	22.00	
	Binder Clip. 12 x 1"	box	3.00	0.0%	100.0%	0.0%	20.0%	80.0%	17.50	0.00	52.50	0.00	10.50	42.00	52.50	
	Binder Clip. 12 x 1 1/2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	23.50	0.00	47.00	0.00	9.40	37.60	47.00	
	Binder Clip. 12 x 2"	box	2.00	0.0%	100.0%	0.0%	20.0%	80.0%	50.00	0.00	100.00	0.00	20.00	80.00	100.00	
	Glue. Tube 30g	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	box	2.00	0.0%	100.0%	0.0%	25.0%	75.0%	14.00	0.00	28.00	0.00	7.00	21.00	28.00	
	CD Rewritable. 640MB	each	3.00	0.0%	100.0%	0.0%	40.0%	60.0%	41.00	0.00	123.00	0.00	49.20	73.80	123.00	
	Printer Cartridge	each	0.33	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 Spray. 350g	bottle	3.00	0.0%	100.0%	0.0%	15.0%	85.0%	140.00	0.00	420.00	0.00	63.00	357.00	420.00	
	Soap. 135g	each	11.00	0.0%	100.0%	0.0%	15.0%	85.0%	21.00	0.00	231.00	0.00	34.65	196.35	231.00	
	Miscellaneous	LS	1.00	15.0%	5.0%	80.0%	45.0%	55.0%		47.75	15.92	254.64	143.24	175.07	318.30	2.0%
	Total									47.75	15,931.12	254.64	5,776.92	10,456.58	16,233.50	
	Components (%)									0.3%	98.1%	1.6%	35.6%	64.4%	100.0%	
	Unit Rate	month								47.65	15,898.24	254.12	5,765.00	10,435.00	16,200.00	

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

W3501 Relocation of Existing Lighting Poles — Unit: 1.00 each

Item No.	Desrription	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	0.54	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	131.51	70.62	279.55	197.15	284.53	481.68	
W0106	Excavation. Backhoe 0.61m3 + Manpower	m3	2.39	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	34.94	9.43	97.85	59.34	82.87	142.21	
W0025	Disposal of Demolished Debris	m3	0.54	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	12.02	9.54	52.42	34.68	39.30	73.98	
W0133	Backfill C	m3	2.93	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	48.52	50.27	326.07	209.89	214.96	424.85	
W0105	Excavation. Backhoe 0.61m3	m3	3.15	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	5.67	10.82	112.35	68.13	60.71	128.84	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	0.52	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	3.94	7.13	37.29	24.89	23.47	48.36	
W0133	Backfill C	m3	2.63	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	43.55	45.12	292.68	188.40	192.95	381.35	
W0161	Gravel Foundation Fill	m3	0.05	24.1%	13.3%	62.6%	39.5%	60.5%	409.00	4.93	2.72	12.80	8.09	12.36	20.45	
W0203	Concrete (Class A. 21MPa. max agg.38mm)	m3	0.55	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	22.24	713.49	149.77	502.51	382.99	885.50	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.54	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	118.59	0.24	2.13	1.30	119.66	120.96	
W0236	Concrete Curing (plain concrete)	m3	0.54	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	3.39	0.42	0.97	0.76	4.02	4.78	
W0240	Formwork (plain concrete H<4m)	m2	3.60	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	470.41	322.53	6.27	23.49	775.71	799.20	
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	215.08	0.00	0.00	0.00	215.08	215.08	
L012	Electrician	md	0.44	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	185.24	0.00	0.00	0.00	185.24	185.24	
L020	Unskilled Labor	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	
R0402-010	Truck Crane. Hydraulic 6-10t	hr	1.91	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	140.81	86.15	699.39	435.76	490.59	926.35	
Q0405-013	Lift Car. 12～13m	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%		49.56	148.69	297.38	247.81	247.81	495.63	8.0%
	Total									1,802.19	1,510.63	3,378.13	2,609.22	4,081.73	6,690.96	
	Components (%)									26.9%	22.6%	50.5%	39.0%	61.0%	100.0%	
	Unit Rate	each								1,801.93	1,510.42	3,377.65	2,608.85	4,081.15	6,690.00	

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

W3502 Relocation of Underground Conduit — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (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	72.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	129.57	247.36	2,567.87	1,557.17	1,387.63	2,944.80	
W0162	Selected Sand Fill	m3	36.00	32.6%	15.4%	52.0%	34.1%	65.9%	293.00	3,441.06	1,623.63	5,483.30	3,597.16	6,950.84	10,548.00	
W0133	Backfill C	m3	36.00	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	596.12	617.61	4,006.27	2,578.81	2,641.19	5,220.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	36.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	272.69	493.93	2,581.38	1,723.35	1,624.65	3,348.00	
M13051	Electric Cable	m	103.00	0.0%	100.0%	0.0%	55.0%	45.0%	62.30	0.00	6,416.90	0.00	3,529.30	2,887.61	6,416.90	Loss 3.0%
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	
L012	Electrician	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	1,094.60	0.00	0.00	0.00	1,094.60	1,094.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		44.52	133.57	267.14	222.61	222.61	445.23	1.0%
	Total									8,049.66	11,052.16	25,866.11	20,153.46	24,814.47	44,967.93	
	Components (%)									17.9%	24.6%	57.5%	44.8%	55.2%	100.0%	
	Unit Rate	m								80.55	110.60	258.85	201.68	248.32	450.00	

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

W3503 Relocation of Watermain — Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)					Total (PP)	Component (PP)					Total (PP)	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
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	72.00	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	129.57	247.36	2,567.87	1,557.17	1,387.63	2,944.80	
W0162	Selected Sand Fill	m3	36.00	32.6%	15.4%	52.0%	34.1%	65.9%	293.00	3,441.06	1,623.63	5,483.30	3,597.16	6,950.84	10,548.00	
W0133	Backfill C	m3	36.00	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	596.12	617.61	4,006.27	2,578.81	2,641.19	5,220.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	36.00	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	272.69	493.93	2,581.38	1,723.35	1,624.65	3,348.00	
M08720	Steel Gas Pipe. φ200	m	100.00	0.0%	100.0%	0.0%	60.0%	40.0%	1,080.00	0.00	108,000.00	0.00	64,800.00	43,200.00	108,000.00	
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	
L020	Unskilled Labor	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	533.80	0.00	0.00	0.00	533.80	533.80	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		145.55	436.64	873.27	727.73	727.73	1,455.45	1.0%
	Total									7,589.88	112,938.32	26,472.25	81,929.27	65,071.18	147,000.45	
	Components (%)									5.2%	76.8%	18.0%	55.7%	44.3%	100.0%	
	Unit Rate	m								75.90	1,129.38	264.72	819.29	650.71	1,470.00	

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

W3504 Relocation of Sewer Pipe — Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	22.87	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	334.30	90.19	936.28	567.77	793.00	1,360.77	
W0133	Backfill C	m3	22.87	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	378.70	392.35	2,545.10	1,638.26	1,677.89	3,316.15	
W0105	Excavation, Backhoe 0.61m3	m3	22.87	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	41.16	78.57	815.65	494.62	440.76	935.38	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	5.02	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	202.98	6,512.20	1,367.02	4,586.54	3,495.66	8,082.20	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	1,080.47	2.16	19.45	11.89	1,090.19	1,102.08	
W0236	Concrete Curing (plain concrete)	m3	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	30.88	3.80	8.86	6.96	36.58	43.54	
W0162	Selected Sand Fill	m3	8.86	32.6%	15.4%	52.0%	34.1%	65.9%	293.00	846.88	399.59	1,349.50	885.30	1,710.68	2,595.98	
W0133	Backfill C	m3	4.53	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	75.01	77.72	504.12	324.50	332.35	656.85	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	18.34	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	138.92	251.63	1,315.07	877.95	827.67	1,705.62	
W0332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ610	m	10.00	10.2%	68.3%	21.5%	53.6%	46.4%	1,120.00	1,144.40	7,652.50	2,403.09	6,004.12	5,195.88	11,200.00	
W0342	Precast Concrete Pipe Laying φ610	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	1,715.50	2,440.00	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									5,385.51	15,661.58	12,391.48	16,122.40	17,316.17	33,438.57	
	Components (%)									16.1%	46.8%	37.1%	48.2%	51.8%	100.0%	
	Unit Rate	m								537.93	1,564.35	1,237.72	1,610.38	1,729.62	3,340.00	

W3511 Repair & Maintenance of Existing Access Road — Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
W0122	Crushed Aggregate, transported	m3	19.80	9.1%	15.7%	75.2%	47.2%	52.8%	274.00	495.96	850.28	4,078.95	2,562.56	2,862.64	5,425.20	Loss 32.0%
R0307-000	Plate Compactor	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%		168.72	337.45	337.45	337.45	506.17	843.62	12.0%
	Total									1,606.69	1,305.08	4,962.05	3,272.63	4,601.19	7,873.82	
	Components (%)									20.4%	16.6%	63.0%	41.6%	58.4%	100.0%	
	Unit Rate	m2								16.06	13.04	49.60	32.71	45.99	78.70	

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: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
	Compensation	LS	1.00	50.0%	50.0%	0.0%	0.0%	100.0%	94,290.00	47,145.00	47,145.00	0.00	0.00	94,290.00	94,290.00	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%		383.19	766.38	766.38	766.38	1,149.58	1,915.96	2.0%
	Total									49,036.19	47,911.38	766.38	766.38	96,947.58	97,713.96	
	Components (%)									50.2%	49.0%	0.8%	0.8%	99.2%	100.0%	
	Unit Rate	km								49,029.19	47,904.54	766.27	766.27	96,933.73	97,700.00	

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

W4111 Health and Safety Requirements — Unit: 1.00 day

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
	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	day								67.40	370.70	235.90	269.60	404.40	674.00	

Health and Safety Requirements = Minimum wage x α
Minimum wage = 224.50 PP/day
α : Coefficient = 3.00

W4121 Overseas Development Assistance (ODA) Recognition Plate — Unit: 1.00 each

Item No.	Description	Unit	Quantity	Unit Rate: Component (%) Lab.	Mat.	Equip.	For.	Local	Unit Rate: Total (PP)	Amount: Component (PP) Labor	Material	Equipment	Foreign	Local	Amount: Total (PP)	Remarks
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	4.70	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	68.70	18.54	192.41	116.68	162.97	279.65	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	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	m3	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	
W0203	Concrete (Class A, 21MPa, max agg.38mm)	m3	0.61	2.5%	80.6%	16.9%	56.7%	43.3%	1,610.00	24.66	791.32	166.11	557.33	424.77	982.10	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.60	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	131.76	0.26	2.37	1.45	132.95	134.40	
W0236	Concrete Curing (plain concrete)	m3	0.60	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	3.77	0.46	1.08	0.85	4.46	5.31	
W0240	Formwork (plain concrete H<4m)	m2	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	
M07201	Traffic Sign Board (aluminum)	m2	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,281.80	28,690.20	81,972.00	
M08708	Steel Gas Pipe, φ125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	5,633.60	0.00	3,380.16	2,253.44	5,633.60	
L002	Foreman	md	0.11	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	62.26	0.00	0.00	0.00	62.26	62.26	
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18	
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	50.0%	50.0%		545.41	1,090.82	1,090.82	1,363.52	1,363.52	2,727.04	3.0%
	Total									1,652.39	90,015.61	1,960.44	59,055.53	34,572.91	93,628.44	
	Components (%)									1.8%	96.1%	2.1%	63.1%	36.9%	100.0%	
	Unit Rate	each								1,651.89	89,988.26	1,959.85	59,037.59	34,562.41	93,600.00	

Miscellaneous covers the costs for fixtures, paints, etc.