

5. Summary of Basic Work Costs

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0001	Grass Cutting	m2	90.9%	0.9%	8.2%	4.5%	95.5%	1.09	
W0002	Tree Cutting	m2	92.6%	0.7%	6.7%	3.7%	96.3%	0.91	
W0003	Grubbing	m2	4.0%	7.9%	88.1%	53.0%	47.0%	24.90	
W0004	Burning	m2	100.0%	0.0%	0.0%	0.0%	100.0%	1.90	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	11.6%	6.3%	82.0%	48.7%	51.3%	624.00	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	12.5%	7.5%	80.0%	48.2%	51.8%	1,280.00	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	27.3%	14.7%	58.0%	40.9%	59.1%	892.00	
W0014	Demolition by Pneumatic Handhold Breaker (Heavily Reinforced Structures)	m3	46.2%	11.0%	42.8%	30.3%	69.7%	1,680.00	
W0015	Demolition of PCC Pavement by Crawler Drill	m2	3.4%	6.5%	90.1%	53.2%	46.8%	56.50	
W0016	Excavation of Gravel Pavement	m3	4.4%	8.4%	87.2%	52.9%	47.1%	10.30	
W0025	Disposal of Demolished Debris	m3	16.2%	12.9%	70.9%	46.9%	53.1%	137.00	
W0101	Excavation, Backhoe 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	25.30	
W0102	Excavation, Backhoe 0.35m3	m3	6.4%	8.4%	85.2%	51.8%	48.2%	49.40	
W0105	Excavation, Backhoe 0.61m3	m3	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	
W0106	Excavation, Backhoe 0.61m3 + Manpower	m3	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	
W0107	Excavation, Clamshell + Backhoe	m3	7.9%	8.1%	84.1%	52.8%	47.2%	91.50	
W0108	Excavation, Backhoe 0.61m3 + Crawler Drill	m3	3.4%	6.5%	90.1%	53.2%	46.8%	185.00	
W0109	Excavation, Manpower	m3	100.0%	0.0%	0.0%	0.0%	100.0%	132.00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	8.1%	14.8%	77.1%	51.5%	48.5%	93.00	
W0115	Disposal of Surplus Soil (manpower loading)	m3	45.7%	10.8%	43.5%	30.6%	69.4%	103.00	
W0121	Borrow Soil, transported	m3	6.9%	22.2%	70.9%	48.4%	51.6%	213.00	
W0122	Crushed Aggregate, transported	m3	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	
W0123	Excavated Soil, transported	m3	7.2%	13.1%	79.7%	51.8%	48.2%	60.90	
W0128	Selected Sand, transported	m3	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	
W0129	Gravel/Stone, transported	m3	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	
W0131	Backfill A	m3	3.5%	8.0%	88.4%	53.3%	46.7%	88.80	
W0132	Backfill B	m3	7.7%	10.0%	82.3%	51.3%	48.7%	111.00	
W0133	Backfill C	m3	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	
W0134	Backfill D	m3	13.3%	12.6%	74.1%	48.5%	51.5%	200.00	
W0135	Backfill, Manpower + Compactor	m3	78.1%	5.6%	16.3%	12.5%	87.5%	76.40	
W0141	Filling & Laying, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	27.50	
W0142	Filling & Laying, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	29.50	
W0145	Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	24.00	
W0146	Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	26.10	
W0147	Compaction, tire roller 8~20t	m3	4.3%	8.0%	87.7%	52.7%	47.3%	10.40	
W0148	Compaction, tamper	m3	12.4%	17.3%	70.3%	49.4%	50.6%	76.10	
W0149	Filling, Laying & Compaction, bulldozer 21t	m3	1.5%	8.2%	90.3%	54.4%	45.6%	56.00	
W0150	Filling, Laying & Compaction, bulldozer 15t	m3	3.0%	7.8%	89.2%	53.6%	46.4%	51.60	
W0151	Slope Formation by Bulldozer	m2	7.5%	7.4%	85.1%	51.1%	48.9%	39.60	
W0152	Slope Formation by Backhoe	m2	9.9%	7.9%	82.2%	49.8%	50.2%	48.00	
W0161	Gravel Foundation Fill	m3	24.8%	13.1%	62.1%	39.0%	61.0%	390.00	
W0162	Selected Sand Fill	m3	34.0%	15.2%	50.7%	33.1%	66.9%	276.00	
W0201	Lean Concrete (17MPa, max agg. 38mm)	m3	2.6%	80.9%	16.6%	56.6%	43.4%	1,450.00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	2.8%	78.4%	18.8%	56.3%	43.7%	1,340.00	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	
W0203a	Concrete (Class A1, 21MPa, max agg. 20mm)	m3	2.2%	83.5%	14.3%	57.1%	42.9%	1,640.00	
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	2.2%	84.0%	13.8%	57.1%	42.9%	1,670.00	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	2.2%	83.9%	14.0%	57.9%	42.1%	1,720.00	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	2.0%	85.0%	12.9%	58.0%	42.0%	1,800.00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	1.8%	87.1%	11.1%	58.4%	41.6%	2,090.00	
W0211	Concrete (for PCC Pavement, 24.1MPa, max agg. 20mm)	m3	2.6%	80.3%	17.1%	57.3%	42.7%	1,480.00	
W0215	Concrete (for RCPC, 25MPa, max agg. 20mm)	m3	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	
W0216	Concrete (for RCPC, 32MPa, max agg. 20mm)	m3	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	
W0221	Mortar (1:3)	m3	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	
W0222	Mortar (1:2)	m3	1.5%	94.1%	4.5%	58.2%	41.8%	2,340.00	
W0225	Grout (non-shrink)	m3	1.0%	96.5%	2.6%	61.3%	38.7%	3,050.00	
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18.8%	0.2%	81.0%	43.4%	56.6%	213.00	
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	29.1%	0.2%	70.7%	37.9%	62.1%	508.00	
W0234	Concrete Pouring by Truck Crane	m3	30.6%	5.8%	63.6%	38.4%	61.6%	281.00	
W0235	Concrete Pouring by Manpower for small concrete	m3	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	
W0236	Concrete Curing (plain concrete)	m3	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	
W0237	Concrete Curing (reinforced concrete)	m3	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	
W0240	Formwork (plain concrete H<4m)	m2	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	
W0241	Formwork (reinforced concrete H<4m)	m2	59.3%	39.9%	0.8%	2.9%	97.1%	224.00	
W0242	Formwork (reinforced concrete H≥4m)	m2	47.1%	33.6%	19.3%	13.6%	86.4%	283.00	
W0243	Formwork (lean concrete)	m2	41.3%	58.0%	0.8%	3.8%	96.2%	152.00	
W0244	Formwork for Bridge Superstructures	m2	57.7%	26.8%	15.5%	11.1%	88.9%	354.00	
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	62.6%	21.6%	15.8%	11.4%	88.6%	468.00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
WO303	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 460 (18")	m	9.7%	67.0%	23.3%	53.5%	46.5%	522.00	
WO304	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 610 (24")	m	9.9%	67.3%	22.8%	53.5%	46.5%	861.00	
WO305	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 760 (30")	m	10.0%	67.4%	22.5%	53.5%	46.5%	1,280.00	
WO306	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 910 (36")	m	10.5%	67.8%	21.7%	53.4%	46.6%	1,970.00	
WO307	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1070 (42")	m	10.5%	67.8%	21.7%	53.4%	46.6%	2,580.00	
WO308	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1220 (48")	m	10.5%	67.8%	21.7%	53.4%	46.6%	3,250.00	
WO309	Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication φ 1520 (60")	m	10.5%	67.8%	21.7%	53.4%	46.6%	4,860.00	
WO313	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 460 (18")	m	10.4%	69.0%	20.7%	53.6%	46.4%	576.00	
WO314	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 610 (24")	m	10.3%	68.9%	20.7%	53.6%	46.4%	945.00	
WO315	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 760 (30")	m	10.2%	68.8%	21.0%	53.6%	46.4%	1,320.00	
WO316	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 910 (36")	m	10.8%	69.1%	20.1%	53.5%	46.5%	2,130.00	
WO317	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1070 (42")	m	10.7%	69.1%	20.2%	53.6%	46.4%	2,680.00	
WO318	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1220 (48")	m	10.7%	69.1%	20.2%	53.6%	46.4%	3,470.00	
WO319	Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication φ 1520 (60")	m	10.8%	69.1%	20.1%	53.5%	46.5%	5,170.00	
WO331	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 460 (18")	m	10.4%	68.9%	20.7%	53.6%	46.4%	744.00	
WO332	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 610 (24")	m	10.2%	68.8%	20.9%	53.6%	46.4%	1,100.00	
WO333	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 760 (30")	m	10.3%	68.9%	20.8%	53.6%	46.4%	1,640.00	
WO334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication φ 910 (36")	m	10.8%	68.8%	20.4%	53.5%	46.5%	2,620.00	
WO335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1070 (42")	m	11.2%	69.0%	19.8%	53.5%	46.5%	3,940.00	
WO336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1220 (48")	m	10.8%	68.8%	20.5%	53.5%	46.5%	4,290.00	
WO337	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ 1520 (60")	m	11.2%	68.8%	20.0%	53.5%	46.5%	7,450.00	
WO341	Precast Concrete Pipe Laying φ 460 (18")	m	46.9%	8.1%	45.0%	28.9%	71.1%	200.00	
WO342	Precast Concrete Pipe Laying φ 610 (24")	m	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	
WO343	Precast Concrete Pipe Laying φ 760 (30")	m	46.9%	8.1%	45.0%	29.0%	71.0%	301.00	
WO344	Precast Concrete Pipe Laying φ 910 (36")	m	31.0%	8.6%	60.4%	37.7%	62.3%	513.00	
WO345	Precast Concrete Pipe Laying φ 1070 (42")	m	31.4%	8.6%	60.0%	37.4%	62.6%	590.00	
WO346	Precast Concrete Pipe Laying φ 1220 (48")	m	31.2%	8.6%	60.2%	37.6%	62.4%	661.00	
WO347	Precast Concrete Pipe Laying φ 1520 (60")	m	26.8%	8.5%	64.7%	40.0%	60.0%	934.00	
WO351	Precast Concrete Pipe Removal φ 460 (18")	m	46.3%	5.9%	47.8%	29.3%	70.7%	61.50	
WO352	Precast Concrete Pipe Removal φ 610 (24")	m	44.9%	6.1%	49.1%	30.1%	69.9%	75.30	
WO353	Precast Concrete Pipe Removal φ 760 (30")	m	46.2%	5.9%	47.9%	29.4%	70.6%	92.80	
WO354	Precast Concrete Pipe Removal φ 910 (36")	m	30.7%	6.4%	62.8%	37.9%	62.1%	158.00	
WO355	Precast Concrete Pipe Removal φ 1070 (42")	m	31.2%	6.4%	62.4%	37.6%	62.4%	182.00	
WO356	Precast Concrete Pipe Removal φ 1220 (48")	m	30.9%	6.4%	62.7%	37.8%	62.2%	204.00	
WO357	Precast Concrete Pipe Removal φ 1520 (60")	m	26.7%	6.3%	67.0%	40.1%	59.9%	288.00	
WO401	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Common Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	199.00	
WO402	Temporary Sheet Pile Driving for excavation, (Vibro Hammer, Rocky Soil)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	255.00	
WO403	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	10.2%	13.5%	76.3%	49.9%	50.1%	169.00	
WO406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.2%	49.9%	50.1%	117.00	
WO407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	10.2%	13.5%	76.4%	49.9%	50.1%	102.00	
WO411	Temporary Struts & Supports Installation	t	33.7%	9.5%	56.9%	36.9%	63.1%	1,390.00	
WO412	Temporary Struts & Supports Removal	t	35.3%	9.1%	55.5%	35.7%	64.3%	827.00	
WO413	Temporary Struts & Tie Rod Installation	t	31.0%	11.1%	58.0%	38.4%	61.6%	4,210.00	
WO414	Temporary Struts & Supports Removal	t	28.8%	9.4%	61.7%	39.3%	60.7%	2,120.00	
WO415	Temporary Deck Plate Installation	m2	35.3%	5.9%	58.8%	35.8%	64.2%	78.20	
WO416	Temporary Deck Plate Removal	m2	35.3%	5.9%	58.8%	35.8%	64.2%	42.70	
WO417	Temporary Deck Plate Support Beam Installation	t	36.7%	9.5%	53.8%	35.2%	64.8%	1,240.00	
WO418	Temporary Deck Plate Support Beam Removal	t	38.0%	8.2%	53.8%	34.3%	65.7%	740.00	
WO421	Temporary Access Bridge Superstructure Installation	t	21.6%	8.0%	70.4%	43.3%	56.7%	1,450.00	
WO422	Temporary Access Bridge Superstructure Removal	t	23.1%	8.2%	68.7%	42.5%	57.5%	1,010.00	
WO423	Temporary Access Bridge Railing Installation	m	36.1%	6.8%	57.1%	35.3%	64.7%	106.00	
WO424	Temporary Access Bridge Railing Removal	m	38.1%	5.4%	56.5%	34.2%	65.8%	56.90	
WO431	Temporary Drain Pump Installation & Removal	set	46.2%	7.1%	46.6%	29.9%	70.1%	2,880.00	
WO432	Temporary Drain Pump Operation	day	8.2%	20.8%	71.1%	51.3%	48.7%	1,190.00	
WO441	Temporary Frame Support Installation & Removal	m3	58.9%	3.9%	37.1%	22.5%	77.5%	52.50	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0442	Temporary Frame Support Depreciation	m ³ -d	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	m	9.6%	14.8%	75.6%	50.4%	49.6%	126.00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	9.6%	14.8%	75.6%	50.4%	49.6%	77.70	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	9.6%	14.9%	75.5%	50.4%	49.6%	149.00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	9.7%	14.9%	75.4%	50.4%	49.6%	85.70	
W0501	Ground Assembly of Structural Steel Bridge	t	11.4%	3.1%	85.5%	48.2%	51.8%	1,260.00	
W0502	Erection of Structural Steel Bridge Members	t	10.8%	4.8%	84.4%	48.4%	51.6%	1,290.00	
W0503	Bolting of Structural Steel Bridge Members	each	4.4%	93.3%	2.3%	66.1%	33.9%	43.60	
W0504	Finish Painting of Structural Steel Bridge	m ²	42.1%	48.8%	9.1%	36.3%	63.7%	132.00	
W0505	Temporary Bent for Steel Bridge Erection	t	4.5%	91.4%	4.1%	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%	348.00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	100.0%	0.0%	0.0%	0.0%	100.0%	373.00	
W0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	m	5.9%	93.9%	0.2%	65.0%	35.0%	934.00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	5.3%	94.5%	0.2%	65.5%	34.5%	1,140.00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	4.8%	95.0%	0.2%	65.9%	34.1%	1,340.00	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Slab	m	8.2%	91.6%	0.2%	62.8%	37.2%	216.00	
W0545	PC Strand (8-T12.7, 150t) Tensioning for Precast PC Girder	cable	3.0%	96.0%	1.1%	72.2%	27.8%	14,600.00	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.4%	96.7%	0.9%	72.7%	27.3%	19,600.00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.5%	96.6%	1.0%	72.6%	27.4%	19,600.00	
W0548	PC Strand (1-T15.2, 30t) Tensioning for Precast PC Deck Slab	cable	4.9%	93.5%	1.7%	70.7%	29.3%	2,060.00	
W0549	Secondary Concrete for Precast PC Deck Slab	m ³	5.9%	75.8%	18.2%	55.4%	44.6%	2,080.00	
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	14.4%	63.1%	22.6%	50.3%	49.7%	3,010.00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	14.8%	62.7%	22.6%	50.1%	49.9%	2,870.00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	14.8%	62.5%	22.8%	50.0%	50.0%	2,830.00	
W0611	Stone Laying	m ³	9.9%	14.3%	75.8%	47.5%	52.5%	378.00	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m ³	34.3%	17.8%	47.9%	35.4%	64.6%	426.00	
W0652	Temporary Bracket Support at Pier Head for Cantilever Construction	t	24.4%	44.6%	31.0%	39.2%	60.8%	7,840.00	
W0653	Temporary External & Internal Support at Pier Head for Cantilever Construction	v·m ³	29.2%	30.0%	40.8%	37.5%	62.5%	172.00	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	t	24.6%	29.2%	46.2%	39.9%	60.1%	8,330.00	
W0655	Temporary External & Internal Support at Center Connection for Cantilever Construction	v·m ³	28.0%	28.7%	43.3%	38.0%	62.0%	179.00	
W0656	Temporary Frame Support at Side Span for Cantilever Construction	v·m ³	21.4%	40.6%	38.0%	41.2%	58.8%	93.90	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	v·m ³	29.7%	28.8%	41.5%	37.3%	62.7%	169.00	
W0661	Assembly & Disassembly of Form Traveler	set	23.4%	17.7%	58.9%	41.0%	59.0%	335,000.00	
W0662	Form Traveler Shifting	time	78.7%	12.8%	8.5%	10.6%	89.4%	2,080.00	
W0663	Form Traveler Lifting	time	100.0%	0.0%	0.0%	0.0%	100.0%	4,980.00	
W0664	Form Traveler Pulling Back	m	100.0%	0.0%	0.0%	0.0%	100.0%	114.00	
W0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	11.5%	84.4%	4.1%	60.4%	39.6%	153,000.00	
W0672	PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	0.9%	92.4%	6.7%	71.0%	29.0%	12,900.00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	6.3%	87.5%	6.2%	68.3%	31.7%	9,560.00	
W0676	PC Cable Installation, (5-T12.7, 90t) for PC Box Girder (Transversal)	t	11.2%	84.7%	4.1%	60.6%	39.4%	152,000.00	
W0677	PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	5.0%	86.7%	8.3%	67.1%	32.9%	1,680.00	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	40.1%	23.4%	36.5%	34.6%	65.4%	823.00	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	

Item No.	Description	Unit	Unit Rate					Total (Pp)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W0682	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Transversal)	each	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0683	PC Bar Tensioning, (φ32mm) for PC Box Girder (Transversal)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0686	PC Bar Installation, (1-φ32mm) for PC Box Girder (Vertical in Web)	t	5.7%	91.1%	3.3%	64.8%	35.2%	157,000.00	
W0687	PC Bar Anchorage, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	2.4%	92.0%	5.5%	70.4%	29.6%	1,810.00	
W0688	PC Bar Tensioning, (1-φ32mm) for PC Box Girder (Vertical in Web)	each	16.3%	71.4%	12.2%	59.9%	40.1%	1,800.00	
W0701	Precast Concrete Cover (580x480x70), furnish	each	1.3%	91.2%	7.6%	63.0%	37.0%	116.00	
W0702	Precast Concrete Cover (580x480x70).	each	89.3%	1.1%	9.6%	5.4%	94.6%	10.30	
W0703	Precast Concrete Cover (680x580x75), furnish	each	4.2%	91.2%	4.7%	60.8%	39.2%	187.00	
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%	51.5%	42.4%	52.6%	47.4%	922.00	
W0732	Granular Bedding for Rubble Concrete	m3	27.4%	12.5%	60.1%	37.5%	62.5%	399.00	
W0733	Washout Prevention Filter, furnish and laying	m2	2.1%	96.2%	1.8%	58.6%	41.4%	91.70	
W0741	Grouted Riprap Class A	m3	15.6%	63.8%	20.6%	48.0%	52.0%	734.00	
W0742	Stone Masonry, laid	m3	14.3%	70.1%	15.6%	49.3%	50.7%	1,000.00	
W0751	Concrete Hollow Block (150x200x400mm), furnish & Laying including mortar fill	each	48.2%	50.0%	1.8%	19.0%	81.0%	39.00	
W0852	Aggregate Subbase Course for Side Walk (t=100mm)	m2	26.4%	12.7%	60.9%	38.7%	61.3%	54.00	
W0853	PCC Pavement (Plain), t=100mm for Side Walk	m2	16.8%	69.7%	6.1%	46.1%	46.5%	412.00	
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%	23.20	
W0922	Tree Haulage, Medium Tree 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	45.60	
W0923	Tree Haulage, High Tree (young tree) 1.5m<H≤3.0m	each	13.5%	19.3%	67.2%	49.0%	51.0%	78.10	
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	13.2%	70.1%	16.7%	49.9%	50.1%	45.60	
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	13.6%	72.2%	14.2%	51.8%	48.2%	246.00	
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	13.1%	68.3%	18.6%	47.1%	52.9%	360.00	
W1011	Electric Cable Laying	m	21.8%	76.3%	1.9%	42.8%	57.2%	83.80	
W1101	Traffic Signal Post Type A (Mast Arms) H=6.7m, Furnished	each	6.8%	68.7%	24.5%	59.6%	40.4%	22,500.00	
W1102	Traffic Signal Post Type A (Mast Arms) H=6.0m, Furnished	each	7.1%	67.9%	25.0%	59.3%	40.7%	21,400.00	
W1103	Traffic Signal Posts Type B φ114.3mm x 4.2m, Furnished	each	12.2%	52.9%	34.9%	53.7%	46.3%	9,440.00	
W1104	Traffic Signal Posts Type C φ114.3mm x 3.4m, Furnished	each	12.6%	51.7%	35.7%	53.2%	46.8%	9,080.00	
W1105	Pedestrian Signal Posts Type D φ114.3mm x 3.0m, Furnished	each	12.8%	51.0%	36.1%	53.0%	47.0%	8,920.00	
W1201	Street Lighting Pole (single lamp), furnished	each	10.4%	60.1%	29.6%	56.5%	43.5%	16,700.00	
W1202	Street Lighting Pole (double lamp), furnished	each	10.1%	60.8%	29.1%	56.8%	43.2%	17,300.00	
W2001	Heavy Equipment Assembly & Disassembly	LS	25.9%	7.9%	66.1%	40.9%	59.1%	85,900.00	
W2002	Transportation of Disassembled Equipment	LS	4.7%	10.6%	84.6%	52.9%	47.1%	284,000.00	
W2003	Other Equipment & Material Haulage	LS	9.0%	15.4%	75.6%	51.1%	48.9%	191,000.00	
W2004	Establishment of Temporary Site Office & Yard	LS	10.0%	50.0%	40.0%	45.0%	55.0%	1,140,000.00	
W3001	Site Preparation for Engineer's Field Office and Living Quarters	m2	1.5%	8.2%	90.3%	54.4%	45.6%	2.53	
W3002	150mm Thick Concrete Hollow Block Wall	m2	12.5%	84.4%	3.0%	36.5%	63.5%	331.00	
W3002a	100mm Thick Concrete Hollow Block Wall	m2	13.6%	83.1%	3.4%	37.4%	62.6%	305.00	
W3003	Structural Steel Fabrication and Erection for Engineers Office and Living Quarter	t	7.6%	66.4%	26.0%	60.1%	39.9%	39,600.00	
W3004	Prepainted Corrugated G. I. Roofing Fabrication & Erection	m2	8.2%	79.6%	12.2%	54.4%	45.6%	160.00	
W3005	Prepainted Steel Wall Panels on Steel Frames with Insulation	m2	2.5%	92.9%	4.6%	62.1%	37.9%	628.00	

Item No.	Description	Unit	Unit Rate					Total (PP)	Remarks
			Components (%)						
			Lab.	Mat.	Equip.	For.	Local		
W3006	Prepainted Steel Wall Partitions on Steel Frames with Insulation (Double Walling)	m2	2.5%	92.9%	4.6%	62.1%	37.9%	624.00	
W3007	Plain Cement Floor Finish	m2	7.6%	85.6%	6.9%	54.3%	45.7%	63.20	
W3008	Plain Cement Floor Finish with non skid cement with groove lines	m2	8.0%	85.1%	6.8%	54.1%	45.9%	63.50	
W3009	Unglazed Tile Finish (8" x 8")	m2	1.6%	97.9%	0.5%	60.2%	39.8%	589.00	
W3010	Gypsum Board Ceiling	m2	1.6%	97.9%	0.5%	60.2%	39.8%	351.00	
W3011	Plain Cement Mortar Wall Finish	m2	8.9%	84.3%	6.8%	53.5%	46.5%	64.20	
W3012	Steel Fixed Louver	each	14.8%	35.9%	49.2%	49.3%	50.7%	7,120.00	
W3013	Doors & Windows for Engineer's Field Office and Living Quarters	L. S.	5.2%	90.7%	4.1%	41.3%	58.7%	355,000.00	
W3014	Lighting and Powers	L. S.	5.0%	93.5%	1.5%	56.6%	43.4%	138,000.00	
W3015	Sewer Water Line	L. S.	4.4%	94.9%	0.7%	49.8%	50.2%	115,000.00	
W3016	Septic Tank	each	14.4%	63.9%	21.7%	44.1%	55.9%	20,600.00	
W3017	Cyclone Fence and Gate for the Engineer's Office	m	3.2%	93.3%	3.5%	49.1%	50.9%	1,840.00	
W3018	Barbed Wire Fence for the Engineer's Office	m	5.4%	92.8%	1.7%	14.7%	85.3%	127.00	
W3019	Temporary Office Rental	month	0.0%	0.0%	100.0%	15.0%	85.0%	18,000.00	
W3101	Miscellaneous for Office & Living Quarter Maintenance	month	0.0%	85.9%	14.1%	34.4%	65.6%	1,010.00	
W3102	Furniture and Fixtures for Field Office	L. S.	0.1%	99.1%	0.8%	34.5%	65.5%	332,000.00	
W3103	Equipment and Appliances for Field Office	L. S.	0.1%	99.1%	0.8%	73.0%	27.0%	225,000.00	
W3105	Furniture and Fixtures for Living Quarter	L. S.	0.1%	99.1%	0.8%	31.9%	68.1%	217,000.00	
W3106	Equipment and Appliances for Living Quarter	L. S.	0.1%	99.1%	0.8%	39.8%	60.2%	87,600.00	
W3111	Office & Living Quarter Supplies	L. S.	0.3%	98.1%	1.6%	50.9%	49.1%	14,300.00	
W3112	Office & Living Quarter Consumables	month	0.3%	98.1%	1.6%	35.6%	64.4%	16,200.00	
W3401	Toll Gate Canopy Structure with Catwalk & Stairways	m2	7.0%	50.0%	43.0%	55.0%	45.0%	3,310.00	canopy area
W3402	Toll Islands with barriers, cable duct & trench, protection gate, etc.	m2	12.0%	44.0%	44.0%	45.0%	55.0%	980.00	
W3403	Administration Building with fixtures, equipment and furniture	m2	10.0%	50.0%	40.0%	50.0%	50.0%	6,960.00	floor area
W3404	Electrical Service Center with fixtures, generator, and equipment	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,660.00	floor area
W3405	Mini Building with fixtures	m2	10.0%	54.0%	36.0%	50.0%	50.0%	5,220.00	floor area
W3406	Water Tank System (deep well with elevated tank)	L. S.	9.0%	54.0%	37.0%	55.0%	45.0%	380,000.00	
W3407	Toll Operation Equipment	L. S.	6.0%	75.0%	19.0%	80.0%	20.0%	78,400,000.00	US\$1.50 million
W3501	Relocation of Existing Lighting Poles	each	27.0%	22.6%	50.4%	39.0%	61.0%	6,670.00	
W3502	Relocation of Underground Conduit	m	18.0%	24.7%	57.3%	44.7%	55.3%	443.00	
W3503	Relocation of Watermain	m	5.1%	77.1%	17.8%	55.8%	44.2%	1,460.00	
W3504	Relocation of Sewer Pipe	m	16.2%	47.2%	36.5%	48.2%	51.8%	3,290.00	
W3511	Repair & Maintenance of Existing Access Road	m2	20.8%	16.4%	62.8%	41.2%	58.8%	75.20	
W4001	Soil Investigation Boring	m	18.0%	8.0%	74.0%	50.0%	50.0%	2,950.00	
W4002	Soil Investigation Standard Penetration Test	each	25.0%	5.0%	70.0%	50.0%	50.0%	1,630.00	
W4003	Soil Investigation Laboratory Test	set	30.0%	15.0%	55.0%	50.0%	50.0%	18,900.00	
W4101	Environmental Compliance	km	50.2%	49.0%	0.8%	0.8%	99.2%	97,700.00	
W4111	Health and Safety Requirements	day	10.0%	55.0%	35.0%	40.0%	60.0%	674.00	
W4121	Overseas Development Assistance (ODA) Recognition Plate	each	1.8%	96.2%	2.1%	63.1%	36.9%	93,600.00	
W4201	Contingency	L. S.	15.0%	45.0%	40.0%	50.0%	50.0%	500,000.00	

6. Breakdown of Basic Work Cost

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

#0001 Grass Cutting Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.38	100.0%	0.0%	0.0%	0.0%	100.0%	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	663.10	0.00	0.00	0.00	663.10		
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		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	30.0%	50.0%		0.00	9.94	89.19	49.72	49.72	99.44	
	Total									994.38	9.94	89.19	49.72	1,044.10	1,093.82	
	Components (%)									90.9%	0.9%	8.7%	4.5%	95.5%	100.0%	
	Unit Rate	m ²								0.99	0.01	0.09	0.05	1.04	1.09	

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

#0002 Tree Cutting Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.32	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	181.12	0.00	0.00	0.00	181.12	181.12	
L019	Skilled Labor	md	1.15	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	463.45	0.00	0.00	0.00	463.45		
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		
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	6.76	60.88	33.82	33.82	67.54	
	Total									845.53	6.76	60.88	33.82	947.99	913.17	
	Components (%)									92.5%	0.7%	6.7%	3.7%	96.3%	100.0%	
	Unit Rate	m ²								0.85	0.01	0.06	0.03	0.88	0.91	

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

#0003 Grubbing Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	96.22	0.00	0.00	0.00	96.22	96.22	
L020	Unskilled Labor	md	0.17	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	53.38	0.00	0.00	0.00	53.38		
R0101-015	Tractor, crawler w/ dozer (Bulldozer, 15t)	hr	6.40	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	318.40	1,547.84	15,413.76	9,258.46	8,021.54	17,280.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.30	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	329.21	628.49	8,524.30	3,525.58	3,525.62	7,482.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00		
	Total									997.21	1,976.33	22,938.06	13,214.84	11,696.76	24,911.60	
	Components (%)									4.0%	7.9%	88.1%	33.0%	47.0%	100.0%	
	Unit Rate	m ²								1.00	1.98	21.93	13.21	11.69	24.90	

#0004 Burning Unit: 1,000.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.65	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	367.90	0.00	0.00	0.00	367.90	367.90	
L020	Unskilled Labor	md	3.63	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,139.82	0.00	0.00	0.00	1,139.82		
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		
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%		0.00	0.00	0.00	0.00	0.00		
	Total									1,907.36	0.00	0.00	0.00	1,907.36	1,932.36	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	m ²								1.90	0.00	0.00	0.00	1.90	1.90	

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L020	Unskilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	251.20	0.00	0.00	0.00	251.20		
R0202-020	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	1,995.00	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	2.50	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	191.40	365.40	3,793.20	2,300.22	2,049.78	4,350.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	30.30	30.90	33.99	27.81	61.79	
	Total									725.60	398.30	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	m ³								72.55	39.82	511.81	303.69	320.32	624.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L009	Welder	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	350.00	0.00	0.00	0.00	350.00		
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		
R0202-020	Crawler Drill	hr	4.90	0.0%	0.0%	100.0%	54.3%	45.7%	518.00	0.00	0.00	2,538.20	1,377.95	1,160.25	2,538.20	
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.90	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	375.14	716.18	7,434.67	4,508.43	4,017.57	8,326.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	245.73	245.73	270.33	221.18	491.50	
	Total									1,598.54	961.94	10,218.62	6,155.71	6,627.39	12,775.10	
	Components (%)									12.5%	7.5%	80.0%	48.2%	51.8%	100.0%	
	Unit Rate	m ³								160.12	96.35	1,023.53	615.68	663.32	1,280.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.60	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		
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		
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 126-180 cfm (3.6-4.5m ³ /min)	day	2.10	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,220.14	3,165.86	2,511.92	1,877.05	4,389.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	87.43	87.43	95.18	78.69	174.86	
	Total									2,434.80	1,307.57	5,175.69	3,650.20	5,257.85	8,916.00	
	Components (%)									27.2%	14.7%	58.0%	40.6%	59.1%	100.0%	
	Unit Rate	m ³								243.53	130.79	517.68	365.10	525.90	892.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	2.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,471.80	0.00	0.00	0.00	1,471.80	1,471.80	
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		
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		
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		
R0204-020	Pneumatic Breaker, Handhold	day	5.80	0.0%	0.0%	100.0%	54.3%	45.7%	457.00	0.00	0.00	2,650.69	1,439.10	1,211.50	2,650.69	
R1002-160	Air Compressor 126-180 cfm (3.6-4.5m ³ /min)	day	2.90	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00	0.00	1,684.96	4,376.04	3,468.84	2,592.16	6,061.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	164.88	164.88	181.37	148.39	329.76	
	Total									7,775.40	1,849.94	7,191.52	5,0			

W0016 Excavation of Gravel Pavement

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.59	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	45.17	86.23	895.20	542.45	483.75	1,026.60
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total										45.17	86.23	895.20	542.45	483.75	1,026.60
Components (%)										4.4%	8.4%	87.2%	52.9%	47.1%	100.0%
Unit Rate										0.45	0.87	8.98	5.43	4.83	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					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.28	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	21.44	40.92	424.84	257.62	229.58	487.20
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.25	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	75.98	136.00	547.80	385.50	373.98	759.78
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total										223.01	176.93	972.64	643.43	729.15	1,372.58
Components (%)										16.2%	12.9%	70.9%	46.9%	53.1%	100.0%
Unit Rate										22.28	17.66	97.28	64.22	72.78	137.00

Q = 3600-q-f-E/Cm
 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
 Y : 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					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0101-021	Tractor, crawler w/dzozr (Bulldozer, 21t)	hr	0.61	1.3%	8.2%	96.3%	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
Total										37.97	207.58	2,285.94	1,377.19	1,154.31	2,531.50
Components (%)										1.3%	8.2%	96.3%	54.4%	45.6%	100.0%
Unit Rate										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/h
 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					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-035	Backhoe, hydraulic, crawler, 0.35m3	hr	4.08	6.4%	8.4%	85.2%	51.8%	48.2%	1,210.00	315.96	414.69	4,206.15	2,557.58	2,379.22	4,936.80
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total										315.96	414.69	4,206.15	2,557.58	2,379.22	4,936.80
Components (%)										6.4%	8.4%	85.2%	51.8%	48.2%	100.0%
Unit Rate										3.16	4.15	42.09	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					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.35	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
Total										179.92	343.48	3,565.61	2,162.21	1,926.79	4,089.00
Components (%)										4.4%	8.4%	87.2%	52.9%	47.1%	100.0%
Unit Rate										1.80	3.44	35.66	21.63	19.27	40.90

Q = 3600-q-f-E/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					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	125.60	0.00	0.00	0.00	125.60	125.60
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.27	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	20.67	39.46	409.67	248.42	221.38	469.80
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total										146.27	39.46	409.67	248.42	221.38	595.40
Components (%)										24.8%	6.6%	66.8%	41.7%	38.3%	100.0%
Unit Rate										14.63	3.95	40.94	24.83	22.14	59.50

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

W0107 Excavation, Clamshell + Backhoe

Unit: 100.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
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	581.21	6,000.53	3,801.78	2,955.22	6,757.00
R0102-010	Backhoe, hydraulic, crawler, 0.11m3	hr	0.50	10.1%	8.3%	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
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										7.19	7.38	76.93	48.35	43.15	91.50

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

W0108 Excavation, Backhoe 0.61m3 + Crawler Drill

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	0.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	62.76	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	154.16	424.76
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total										62.76	119.85	1,668.93	985.07	826.49	1,851.56
Components (%)										3.4%	6.5%	90.1%	53.2%	46.8%	100.0%
Unit Rate										6.27	11.98	166.75	98.42	82.68	185.00

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

W0109 Excavation, Manpower

Unit: 10.00 m3

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

Q = 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

#0111 Disposal of Surplus Soil (backhoe loading)

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	Total (PP)
R0102-061	Backhoe hydraulic crawler 0.61m3	hr	1.77	4.4%	5.4%	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
	Total									157.20	1,371.53	7,167.99	4,785.39	4,511.34	9,298.73
	Components (%)									8.1%	14.8%	75.1%	51.5%	48.5%	100.0%
	Unit Rate	m3								7.57	13.72	71.71	47.87	45.13	95.00

Q = 3600-q*f-E/Cm (Backhoe) = 56.84 m3/hr
 Q : Excavation Volume per hour = 56.84 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm : Cycle Time = 30 sec

Q = q*f-E/Cm (Dump Truck) = 9.70 m3/hr
 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

#0115 Disposal of Surplus Soil (wamper loading)

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	Total (PP)	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	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	315.36	305.71	621.09	
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00	
	Total									470.31	111.18	447.81	315.36	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	31.58	71.44	103.00	

Q = 3600-q*f-E/Cm (Backhoe) = 56.84 m3/hr
 Q : Excavation Volume per hour = 56.84 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm : Cycle Time = 30 sec

Q = q*f-E/Cm (Dump Truck) = 9.70 m3/hr
 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

#0121 Borrow Soil, transported

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	Total (PP)
M03001	Quarry Royalty (Borrow Soil)	m3	100.00	0.0%	0.0%	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	1.68	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	21.84	8.0%	17.9%	74.1%	51.9%	48.1%	756.00	1,320.88	2,955.48	12,234.68	8,570.19	7,940.85	16,511.04
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									1,464.82	4,730.26	16,087.17	10,299.96	10,982.28	21,282.24
	Components (%)									6.9%	22.2%	70.9%	48.4%	51.6%	100.0%
	Unit Rate	m3								14.68	47.34	151.00	103.98	109.91	213.00

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

Q = q*f-E/Cm (Dump Truck) = 4.58 m3/hr
 Q : Transportation Volume per hour = 4.58 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 = 1.78 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance from Quarry = 22.60 km

#0122 Crushed Aggregate, transported

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	Total (PP)
M03003	Quarry Royalty (Aggregate)	m3	100.00	0.0%	0.0%	0.0%	0.0%	100.0%	15.00	0.00	1,500.00	0.00	0.00	1,500.00	1,500.00
R0102-061	Backhoe hydraulic crawler 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00	
R0716-010	Aggregate Crusher 100t/hr	hr	2.24	0.0%	5.3%	94.5%	54.1%	45.9%	2,700.00	0.00	332.64	5,715.36	3,272.89	2,775.11	6,048.00
R0102-061	Backhoe hydraulic crawler 0.61m3	hr	2.82	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	215.90	412.17	4,278.73	2,594.65	2,312.15	4,906.80
R0601-006	Dump Truck 6.0-9.0 cu-yds (4.6-6.9m3)	hr	11.26	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	685.01	1,226.16	4,808.91	3,478.35	3,371.75	6,850.08
	Miscellaneous	LS	1.00							126.58	126.58	232.11	202.49	303.73	505.21
	Total									2,342.28	4,009.70	19,484.83	12,143.01	13,673.89	25,816.89
	Components (%)									9.1%	15.5%	75.4%	47.0%	53.0%	100.0%
	Unit Rate	m3								23.41	40.07	194.52	121.35	136.55	258.00

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

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

Q = q*f-E/Cm (Dump Truck) = 8.80 m3/hr
 Q : Transportation Volume per hour = 8.80 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 = 0.60 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.00 km

#0123 Excavated Soil, transported

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	Total (PP)
R0102-061	Backhoe hydraulic crawler 0.61m3	hr	1.77	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	135.51	258.70	2,685.59	1,628.56	1,451.24	3,079.80
R0601-006	Dump Truck 6.0-9.0 cu-yds (4.6-6.9m3)	hr	4.99	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	300.90	538.61	2,169.47	1,527.90	1,481.07	3,079.97
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
	Total									436.41	797.31	4,855.05	3,156.45	2,932.32	6,088.77
	Components (%)									7.2%	13.1%	79.7%	51.8%	49.2%	100.0%
	Unit Rate	m3								4.36	7.97	48.55	31.57	29.32	60.89

Q = 3600-q*f-E/Cm (Backhoe) = 56.84 m3/hr
 Q : Excavation Volume per hour = 56.84 m3/hr
 q : Excavation Volume per Cycle = 0.59 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.80
 Cm : Cycle Time = 30 sec

Q = q*f-E/Cm (Dump Truck) = 20.02 m3/hr
 Q : Transportation Volume per hour = 20.02 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 = 0.30 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance from Quarry = 0.40 km

#0128 Selected Sand, transported

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	Total (PP)
M03002	Quarry Royalty (Sand, Pebbles)	m3	100.00	0.0%	0.0%	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	168.14	317.17	3,292.50	1,998.59	1,779.21	3,775.80
L020	Unskilled Labor	md	3.50	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,099.00	0.00	0.00	0.00	1,099.00	
R0102-061	Backhoe hydraulic crawler 0.61m3	hr	2.17	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	168.14	317.17	3,292.50	1,998.59	1,779.21	3,775.80
R0601-006	Dump Truck 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.16	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	612.65	1,096.64	4,417.19	3,110.90	3,015.58	6,126.48
	Miscellaneous	LS	1.00							65.11	93.60	162.77	139.22	195.32	325.94
	Total									2,109.03	3,326.64	11,184.96	7,234.31	9,368.32	16,602.62
	Components (%)									12.1%	20.0%	67.2%	43.6%	56.4%	100.0%
	Unit Rate	m3								21.09	33.28	111.63	72.33	93.67	166.00

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

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

Q = q*f-E/Cm (Dump Truck) = 9.85 m3/hr
 Q : Transportation Volume per hour = 9.85 m3/hr
 q : Loading Capacity of a Truck = 6.80 m3
 f : Volume Coefficient = 1.00
 E : Efficiency = 0.90
 Cm : Cycle Time = A + 2*L/V = 0.60 hr
 V : Vehicle speed = 30.00 km/hr
 A : Loading time = 0.27 hr
 L : Average Distance from Quarry = 5.00 km

#0129 Gravel/Stone, transported

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
M03004	Quarry Royalty (Gravel/Stone)	m3	100.00	0.0%	100.0%	0.0%	0.0%	100.0%	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	
R0301-006	Dump Truck, 6.0-9.0 cur/cyds (4.6-6.9m3)	hr	11.36	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	685.01	1,226.16	4,938.91	5,478.33	3,371.75	6,850.08	
	Miscellaneous	LS	1.00	20.0%	30.0%	50.0%	40.0%	60.0%	77.05	115.56	192.83	154.10	231.15	365.25	2.0%	
	Total								2,292.86	3,666.08	13,685.99	8,821.74	10,826.20	19,647.93		
	Components (%)								11.7%	18.7%	69.7%	44.9%	56.1%	100.0%		
	Unit Rate	m3							22.87	36.57	136.56	88.00	106.00	196.00		

Miscellaneous covers the costs for sieves, screens, washing, minor tools, etc.
 Q = 3600-q-f-E/Cm (Backhoe)
 Q = Excavation Volume per hour = 35.4 m3/hr
 q = 0.59 m3
 f = Volume Coefficient = 1.00
 E = Efficiency = 0.50
 Cm = Cycle Time = 30 sec
 Q = q-f-E/Cm (Dump Truck)
 Q = Transportation Volume per hour = 8.80 m3/hr
 q = 2.90 m3
 f = Loading Capacity of a Truck = 1.00
 E = Efficiency = 0.90
 Cm = Cycle Time = 4 + 2-L/V
 V = Vehicle speed = 30.00 km/hr
 a = Loading time = 0.27 hr
 L = Average Distance from Quarry = 5.00 km

#0131 Backfill A

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	2.00	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	153.12	292.32	3,034.56	1,840.18	1,659.82	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	182.00	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	4,166.56	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		

#0132 Backfill B

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	1.72	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	340.08	0.00	0.00	0.00	340.08	340.08	
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	4,248.98	2,576.25	2,299.75	4,876.00	
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	430.73	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	43.24	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
	Total								851.65	1,114.57	9,182.70	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		

#0133 Backfill C

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	4.30	100.0%	0.0%	0.0%	0.0%	100.0%	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	6,089.12	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	3,419.35	2,564.64	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	11,152.22	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		

#0134 Backfill D

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	5,330.53	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	346.36	539.64	660.02	445.96	1,006.00	
	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	9,887.99	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		

#0135 Backfill, Manpower + Compactor

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	1.90	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	688.45	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	65.84	76.40		

#0141 Filling & Laying, bulldozer 15t

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.02	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00	82.62	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

#0142 Filling & Laying, bulldozer 21t

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local		Total (PP)
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.71	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	44.20	241.61	2,660.89	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	2,660.89	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	28.64	16.03	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

#0145 Compaction, bulldozer 15t

Item No.	Description	Unit	Quantity	Unit Rate						Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	0.89	3.0%	7.8%										

W0146 Compaction, bulldozer 21t Unit: 100.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0.63	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	39.22	214.38	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	0.00	0.0%
	Total								39.22	214.38	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	m ³							0.39	2.14	23.57	14.22	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 B~20t Unit: 100.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0304-016	Four Tamping Foot Wheels (Tire Roller) 18t	hr	0.53	4.3%	8.0%	87.7%	52.7%	47.3%	1,970.00	44.90	83.53	915.88	550.54	493.56	1,044.10	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total								44.90	83.53	915.88	550.54	493.56	1,044.10		
	Components (%)								4.3%	8.0%	87.7%	52.7%	47.3%		100.0%	
	Unit Rate	m ³							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						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L020	Unskilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	94.20	0.00	0.00	0.00	94.20	94.20	
R0306-006	Vibration Hammer, 6in	dav	0.27	0.0%	49.4%	50.6%	59.7%	40.3%	158.00	0.00	21.37	110.45	513.55	350.70	824.00	
R0307-000	Pipe Connector	dav	0.80	0.0%	17.7%	82.0%	56.2%	43.8%	780.00	0.00	0.30	0.00	0.00	0.00	0.00	0.0%
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total								94.20	131.52	533.14	376.18	384.70	760.86		
	Components (%)								12.4%	17.3%	70.3%	49.4%	50.6%		100.0%	
	Unit Rate	m ³							9.42	13.15	53.32	37.62	38.48	76.10		

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	1.35	1.5%	8.2%	90.3%	54.4%	45.6%	4,150.00	84.04	459.41	3,059.06	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	3,059.06	3,047.89	2,554.61	5,602.50		
	Components (%)								1.5%	8.2%	90.3%	54.4%	45.6%		100.0%	
	Unit Rate	m ³							0.84	4.59	50.57	30.47	25.53	56.00		

Q = Q1+Q2/(Q1+Q2)
 Q1 = V-W-D-E/N
 Q1 : Compaction Volume per hour = 157.5 m³/hr
 V : Compaction speed = 3,500 m/hr
 W : Effective compaction width = 0.900 m
 D : Layer thickness = 0.250 m
 E : Efficiency = 0.80
 N : Number of Compaction = 4 times
 Q2 = 10-E-(13-D + 13)
 Q2 : Filling Volume per hour = 140.00 m³/hr
 E : Efficiency = 0.80
 D : Layer thickness = 0.250 m

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.91	3.0%	7.8%	89.2%	53.8%	46.4%	2,700.00	154.71	402.25	4,600.04	2,763.07	2,393.93	5,157.00	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	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%	53.8%	46.4%		100.0%	
	Unit Rate	m ³							1.55	4.02	46.03	27.63	23.93	51.60		

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

W0151 Slope Formation by Bulldozer Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	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	123.60	0.00	0.00	0.00	123.60	123.60	
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	1.40	3.0%	7.8%	89.2%	53.8%	46.4%	2,700.00	113.40	294.84	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								298.60	294.84	3,371.76	2,025.29	1,938.91	3,962.20		
	Components (%)								7.5%	7.4%	85.1%	51.1%	46.9%		100.0%	
	Unit Rate	m ²							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						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	219.80	0.00	0.00	0.00	219.80	219.80	
R0102-061	Backhoe, hydraulic, crawler, 0.6m ³	hr	2.60	4.4%	8.4%	87.2%	52.9%	47.1%	1,740.00	199.05	360.02	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								475.45	360.02	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	m ²							4.75	3.60	39.45	23.92	24.08	48.00		

W0161 Gravel Foundation Fill Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0122	Crushed Aggregate, transported	m ³	12.00	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	280.90	480.85	2,334.25	1,456.21	1,639.79	3,096.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%		0.00	28.31	85.10	66.40	51.00	113.46	3.0%
	Total								967.00	509.21	2,419.35	1,518.61	2,176.95	3,895.56		
	Components (%)								24.8%	13.1%	52.1%	39.0%	61.0%		100.0%	
	Unit Rate	m ³							96.70	50.92	242.21	151.86	217.70	390.00		

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

W0162 Selected Sand Fill Unit: 10.00 m³

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	120.90	0.00	0.00	0.00	120.90	120.90	
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20	
W0128	Selected Sand, transported	m ³	12.00	12.1%	20.0%	67.2%	43.6%	56.4%	166.00	253.04	599.27	1,339.58	867.98	1,124.02	1,992.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	25.0%	75.0%	55.0%	45.0%		0.00	20.06	60.26	44.19	36.15	80.34	3.0%
	Total								939.14	419.46	1,999.84	912.17	1,846.21	2,758.44		
	Components (%)								34.0%	15.2%	50.7%	32.1%	66.9%		100.0%	
	Unit Rate	m ³							93.91	41.95	140.08	91.22	184.73	275.80		

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	m3	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	m3	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.30	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	11,137.50	0.00	6,882.50	4,455.00	11,137.50	Loss 2.0%	
W0122	Crushed Aggregate, transported	m3	4.50	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	107.44	183.92	892.83	537.00	827.22	1,184.22	Loss 10.0%	
W0128	Selected Sand, transported	m3	3.19	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	67.27	106.17	356.11	230.74	298.80	529.54	Loss 10.0%	
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	Loss 2.0%	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70		
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	28.52	128.35	128.35	142.61	142.61	285.22	2.0%		
	Total								371.85	11,765.76	2,408.45	8,238.23	6,306.83	14,546.07			
	Components (%)								2.6%	80.9%	16.5%	56.8%	43.4%	100.0%			
	Unit Rate	m3							37.07	1,172.83	240.88	821.51	628.69	1,460.00			

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 + .15 = 0.22 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	m3	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	m3	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%	15.5%	75.4%	47.0%	53.0%	258.00	128.28	219.59	1,065.97	665.00	748.84	1,413.84	Loss 10.0%	
W0128	Selected Sand, transported	m3	2.70	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	56.93	89.88	301.41	195.30	252.90	448.20	Loss 10.0%	
M01010	Water Supply	m3	1.59	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	Loss 2.0%	
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	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	28.52	128.35	128.35	142.61	142.61	285.22	2.0%		
	Total								380.12	10,513.10	2,516.83	7,550.08	5,860.00	13,410.08			
	Components (%)								2.9%	78.4%	18.8%	56.3%	43.7%	100.0%			
	Unit Rate	m3							37.98	1,050.52	251.50	754.44	585.56	1,340.00			

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

Cement = 287.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 1,321.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 641.00 kg/m3 Transportation Time = 2-L/V + .15 = 0.22 hr
 Water = 155.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	m3	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	m3	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%	15.5%	75.4%	47.0%	53.0%	258.00	105.81	181.12	879.23	548.50	617.66	1,166.16	Loss 10.0%	
W0128	Selected Sand, transported	m3	3.14	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	66.21	104.30	350.52	227.12	294.12	521.24	Loss 10.0%	
M01010	Water Supply	m3	1.75	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	115.85	0.00	11.59	104.27	115.85	Loss 2.0%	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70		
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	28.52	128.35	128.35	142.61	142.61	285.22	2.0%		
	Total								371.40	12,918.88	2,392.35	8,926.83	6,782.80	15,689.63			
	Components (%)								2.4%	82.3%	15.3%	56.9%	43.1%	100.0%			
	Unit Rate	m3							37.16	1,292.74	240.09	892.27	676.73	1,570.00			

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

Cement = 351.00 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 + .15 = 0.22 hr
 Water = 175.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

W0204 Concrete (Class A1, 21MPa, max agg. 20mm)

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	m3	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	m3	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	3.66	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	13,027.50	0.00	7,815.00	5,211.00	13,027.50	Loss 2.0%	
W0122	Crushed Aggregate, transported	m3	4.08	9.1%	15.5%	75.4%	47.0%	53.0%	258.00	95.51	163.49	793.63	495.11	557.53	1,052.64	Loss 10.0%	
W0128	Selected Sand, transported	m3	3.34	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	70.43	111.16	372.85	241.59	312.85	554.44	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	Loss 2.0%	
M03401	Admixture	kg	0.00	0.0%	100.0%	0.0%	70.0%	30.0%	118.00	0.00	0.00	0.00	0.00	0.00	0.00	Loss 2.0%	
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	0.31	3.9%	7.6%	88.5%	52.0%	48.0%	1,970.00	23.82	46.41	540.47	317.58	293.12	610.70		
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00		
	Miscellaneous	LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%	28.52	128.35	128.35	142.61	142.61	285.22	2.0%		
	Total								366.65	13,653.05	2,342.10	9,340.76	7,031.05	16,371.81			
	Components (%)								2.2%	83.5%	14.3%	57.1%	43.9%	100.0%			
	Unit Rate	m3							36.73	1,368.66	234.61	935.68	704.32	1,640.00			

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

Cement = 378.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 40mm) = 984.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 793.00 kg/m3 Transportation Time = 2-L/V + .15 = 0.22 hr
 Water = 185.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.00 kg/m3 V : Transportation Velocity = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Total (PP)	Component (PP)						Total (PP)
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local			
L002	Foreman	m3	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	m3	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%	15.5%	75.4%	47.0%	53.0%	258.00	86.84	148.66	721.67	450.21	506.97	957.18	Loss 10.0%	
W0128	Selected Sand, transported	m3	3.57	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	75.28	118.81	398.53	255.22	334.40	592.62	Loss 10.0%	
M01010	Water Supply	m3	1.90	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	125.78	0.00	12.58				

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	0.00	69.08	69.08	
M03011	Portland Cement, ordinary	t	3.76	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	12,695.00	0.00	7,614.00	5,076.00	12,695.00	12,695.00	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.70	9.1%	15.3%	75.4%	47.0%	53.0%	258.00	110.02	185.32	914.25	570.35	642.25	1,212.60	1,212.60	Loss 10.0%
W0128	Selected Sand, transported	m3	2.76	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	58.20	91.86	308.10	199.64	258.52	458.16	458.16	Loss 10.0%
M01010	Water Supply	m3	1.65	0.0%	100.0%	0.0%	10.0%	90.0%	66.20	0.00	102.61	0.00	10.26	92.35	102.61	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	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	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00	580.00	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		33.73	151.78	151.78	168.64	168.64	337.28	337.28	2.0%
Total										370.66	14,428.29	2,405.28	9,952.47	7,248.16	17,201.23	17,201.23	
Components (%)										2.2%	83.9%	14.0%	57.9%	42.1%	100.0%	100.0%	
Unit Rate										37.07	1,442.83	240.53	995.25	724.82	1,720.00	1,720.00	

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 = 0.22 hr
 Water = 155.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.92 kg/m3 Y : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08		
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	13,533.75	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	4.15	9.1%	15.3%	75.4%	47.0%	53.0%	258.00	97.14	166.29	807.26	503.61	567.09	1,070.70	1,070.70	Loss 10.0%
W0128	Selected Sand, transported	m3	3.00	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	63.26	99.84	354.90	216.99	281.01	498.00	498.00	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	109.23	
M03401	Admixture	kg	10.09	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	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	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00	580.00	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		35.37	159.17	159.17	176.85	176.85	353.71	353.71	2.0%
Total										364.39	15,342.26	2,332.48	10,469.43	7,569.70	18,039.33	18,039.33	
Components (%)										2.0%	85.0%	12.9%	58.0%	42.0%	100.0%	100.0%	
Unit Rate										36.44	1,534.23	233.25	1,046.94	756.97	1,803.93	1,803.93	

Miscellaneous covers the cost for minor materials and tools for washing, screening, weighing, testing, cleaning, etc.
 Cement = 390.00 kg/m3 Plant Daily Operation = 5.53 hr
 Aggregate (max 20mm) = 990.00 kg/m3 Concrete Mixer Truck Capacity = 4.30 m3
 Sand = 713.00 kg/m3 Transportation Time = 2-L/V + .16 = 0.22 hr
 Water = 165.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.98 kg/m3 Y : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	4.79	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	16,156.25	0.00	9,689.75	5,466.50	16,156.25	16,156.25	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	3.98	9.1%	15.3%	75.4%	47.0%	53.0%	258.00	93.16	159.48	774.19	482.98	543.86	1,026.84	1,026.84	Loss 10.0%
W0128	Selected Sand, transported	m3	3.01	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	63.47	100.18	335.01	217.72	281.94	499.66	499.66	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	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	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	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00	580.00	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		41.02	184.59	184.59	205.10	205.10	410.20	410.20	2.0%
Total										366.37	18,227.60	2,325.94	12,225.11	8,694.91	20,920.02	20,920.02	
Components (%)										1.9%	87.1%	11.1%	58.4%	41.6%	100.0%	100.0%	
Unit Rate										36.64	1,822.76	232.59	1,222.51	869.49	2,092.00	2,092.00	

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 = 0.22 hr
 Water = 155.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 1.18 kg/m3 Y : Transportation Velocity = 25.00 km/hr

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

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks	
				Component (%)						Component (PP)							
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96		
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08	0.00	0.00	0.00	69.08	69.08		
M03011	Portland Cement, ordinary	t	3.96	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00	0.00	10,327.50	0.00	6,196.50	4,131.00	10,327.50	10,327.50	Loss 2.0%
W0122	Crushed Aggregate, transported	m3	5.62	9.1%	15.3%	75.4%	47.0%	53.0%	258.00	131.55	225.20	1,092.21	651.99	767.97	1,449.96	1,449.96	Loss 10.0%
W0128	Selected Sand, transported	m3	2.41	12.7%	20.0%	67.2%	43.6%	56.4%	166.00	50.82	80.21	289.03	174.32	225.74	400.06	400.06	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	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	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	610.70	
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	0.50	7.2%	8.2%	84.6%	51.2%	48.8%	1,160.00	41.76	47.56	490.68	297.22	282.78	580.00	580.00	
Miscellaneous		LS	1.00	10.0%	45.0%	45.0%	50.0%	50.0%		28.93	130.17	130.17	144.63	144.63	289.27	289.27	2.0%
Total										379.92	11,849.12	2,523.56	8,453.07	6,299.32	14,752.60	14,752.60	
Components (%)										2.6%	80.3%	12.1%	57.3%	42.7%	100.0%	100.0%	
Unit Rate										38.11	1,184.91	252.36	845.31	629.93	1,475.26	1,475.26	

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 = 0.22 hr
 Water = 135.00 kg/m3 L : Transportation Distance = 0.70 km
 Admixture = 0.75 kg/m3 Y : 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 (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96	
L020	Unskilled Labor	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	69.08						

W0234 Concrete Pouring by Truck Crane

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L019	Skilled Labor	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	322.40	0.00	0.00	0.00	322.40	322.40	
L020	Unskilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	282.60	0.00	0.00	0.00	282.60	282.60	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	1.90	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	143.26	156.54	1,736.16	1,046.03	986.97	2,033.00	
	Miscellaneous	LS	1.00	0.0%	10.0%	50.0%	35.0%	45.0%		0.00	5.30	49.32	30.26	24.76	55.02	2.0%
	Total									858.48	162.04	1,785.70	1,076.29	1,729.83	2,806.22	
	Components (%)									30.6%	5.8%	63.6%	38.4%	61.6%	100.0%	
	Unit Rate	m3								85.86	16.23	178.61	107.77	173.23	280.62	

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

W0235 Concrete Pouring by Manpower for small structures

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80	
L019	Skilled Labor	md	1.80	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%	35.0%	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								219.66	0.44	3.95	2.42	221.56	224.05	

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

W0236 Concrete Curing (plain concrete)

Unit: 10.00 m3

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	62.80	0.00	0.00	0.00	62.80	62.80	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	7.72	18.02	14.16	11.59	25.75	41.0%
	Total									62.80	7.72	18.02	14.16	74.39	88.55	
	Components (%)									70.9%	9.7%	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					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L020	Unskilled Labor	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	31.40	0.00	0.00	0.00	31.40	31.40	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%		0.00	3.20	7.47	5.87	4.80	10.68	34.0%
	Total									31.40	3.20	7.47	5.87	36.20	42.08	
	Components (%)									74.6%	7.6%	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					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20	
L005	Carpenter	md	18.40	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	8,171.20	0.00	0.00	0.00	8,171.20	7,281.60	
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	
N05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	5,994.00	
N05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	261.06	174.04	217.55	217.55	435.19	2.0%
	Total									13,061.00	8,950.60	174.04	552.25	21,537.85	22,190.10	
	Components (%)									38.9%	40.4%	0.8%	2.9%	97.1%	100.0%	
	Unit Rate	m2								130.61	89.50	1.74	5.52	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					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,811.20	0.00	0.00	0.00	1,811.20	1,811.20	
L005	Carpenter	md	18.40	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	
N05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	5,994.00	
N05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%		0.00	263.93	175.96	219.54	219.54	439.89	2.0%
	Total									13,500.40	8,957.94	175.96	554.64	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	5.54	217.46	224.00	

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

W0242 Formwork (reinforced concrete H=4m)

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	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	4,082.60	0.00	0.00	0.00	4,082.60	4,082.60	
N05001	Formwork Lumber, use 4 times	m3	1.62	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00	0.00	5,994.00	0.00	299.70	5,994.30	5,994.00	
N05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	100.00	0.0%	100.0%	0.0%	5.0%	95.0%	27.00	0.00	2,700.00	0.00	135.00	2,565.00	2,700.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	5.71	8.9%	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	221.80	277.00	277.00	554.00	2.0%
	Total									13,317.77	9,496.65	5,439.28	3,855.29	24,398.61	25,253.90	
	Components (%)									47.1%	33.6%	19.3%	13.6%	86.4%	100.0%	
	Unit Rate	m2								133.39	96.12	54.48	38.62	244.38	253.00	

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

W0243 Formwork (lean concrete)

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	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	
N05001																

W0245 Formwork Installation and Removal for PC Box Girder (Cantilever Construction)											Unit: 10.00 m ²				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.58	100.0%	0.0%	0.0%	0.0%	100.0%	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 Plywood 6x1200x2400, use 3 times	m ²	0.16	0.0%	100.0%	0.0%	0.0%	95.0%	3,700.00	592.00	0.00	0.00	29.60	562.60	592.00
M05002	Formwork Plywood 6x1200x2400, use 3 times	m ²	10.00	0.0%	100.0%	0.0%	0.0%	95.0%	27.00	0.00	270.00	0.00	13.50	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	731.92	440.43	415.57	856.00
	Miscellaneous	LS	1.00	0.0%	90.0%	10.0%	35.0%	45.0%	0.00	82.65	9.18	50.51	41.32	91.83	2.0%
Total									2,932.34	1,010.56	740.21	534.04	4,149.27	4,883.31	
Components (%)									62.6%	21.6%	15.8%	11.4%	88.6%	100.0%	
Unit Rate									293.23	100.96	73.97	53.37	414.63	488.00	

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

W0251 Reinforcement Grade 40, cutting, bending & assembly											Unit: 1,000.00 kg					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
M02001	Reinforcing Bars, Grade 40	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	15.00	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	855.58	1,923.72	9.0%	
Total									3,538.30	17,941.04	1,819.09	12,579.97	10,718.45	23,296.42		
Components (%)									15.2%	77.0%	7.8%	54.0%	46.0%	100.0%		
Unit Rate									3.54	17.94	1.82	12.58	10.72	23.30		

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

W0252 Reinforcement Grade 60, cutting, bending & assembly											Unit: 1,000.00 kg					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20	
L006	Re-Bar Worker	md	4.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,853.80	0.00	0.00	0.00	1,853.80	1,853.80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80	
L020	Unskilled Labor	md	3.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,004.80	0.00	0.00	0.00	1,004.80	1,004.80	
M02002	Reinforcing Bars, Grade 60	kg	1,070.00	0.0%	100.0%	0.0%	65.0%	35.0%	17.00	0.00	18,190.00	0.00	11,823.50	6,366.50	18,190.00	Loss 7.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.57	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	41.70	51.55	664.85	393.92	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	855.58	1,923.72	9.0%	
Total									3,538.30	19,049.56	1,819.09	13,326.43	11,136.29	24,464.72		
Components (%)									14.5%	77.9%	7.7%	54.5%	45.5%	100.0%		
Unit Rate									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 #480 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCP, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.03	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	37.64	1,482.21	241.45	1,019.38	741.92	1,761.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.01	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	40.32	0.51	218.74	117.22	142.35	258.57	
W0237	Concrete Curing (reinforced concrete)	m ³	1.01	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	3.17	0.32	0.75	3.88	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 (4.6-6.9m ³)	hr	0.14	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	8.44	15.11	80.87	42.87	41.55	84.42	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	79.89	236.04	478.08	358.56	272.49	1,345.02	18.0%	
Total									3,045.81	3,501.51	1,212.12	2,796.65	2,428.79	5,223.44		
Components (%)									9.7%	67.0%	23.3%	53.5%	46.5%	100.0%		
Unit Rate									50.45	349.92	121.61	279.48	242.52	522.00		

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

W0304 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCP, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	1.60	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	58.47	2,302.46	373.07	1,583.50	1,152.30	2,736.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	1.57	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	62.68	0.79	348.02	182.21	221.28	403.49	
W0237	Concrete Curing (reinforced concrete)	m ³	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	369.42	3,065.68	302.05	2,144.97	1,792.18	3,917.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.18	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	15.27	8.12	65.91	41.07	46.23	87.30	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.21	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	12.66	22.67	81.30	42.87	42.33	126.63	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	191.35	584.05	1,174.96	788.10	591.07	1,373.49	18.0%	
Total									3,527.78	5,794.27	1,983.61	4,608.04	4,002.63	8,610.67		
Components (%)									9.9%	67.3%	22.8%	53.5%	46.5%	100.0%		
Unit Rate									85.27	579.39	198.35	460.77	400.23	861.00		

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

W0305 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCP, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	2.50	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	94.05	3,308.79	559.16	2,276.27	1,656.73	3,933.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	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)	m ³	2.25	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	7.07	1.88	1.32	8.15	9.47		
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	247.00	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	875.22	4,712.03	464.25	3,296.87	2,754.63	6,051.50	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.26	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	19.17	11.73	95.21	59.32	66.78	126.10	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m ³)	hr	0.30	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	18.09	32.98	130.43	91.86	85.04	186.90	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%	195.83	587.48	1,174.96	881.22	1,077.04	1,558.26	18.0%	
Total									1,289.25	8,655.26	2,892.97	6,867.99	5,969.43	12,837.48		
Components (%)									10.0%	67.4%	22.5%	53.5%	46.5%	100.0%		
Unit Rate									128.55	865.53	289.29	686.79	596.21	1,283.00		

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 #910 (36")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab	Mat.	Equip	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCP, 25MPa, max Concrete Pouring by Pump Vehicle (reinforced concrete))	m ³	3.10	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	113.29	4,461.02	726.69	3,068.02	2,232.98	5,301.00	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m ³	3.04</													

W0307 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1070 (42")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 25MPa, max)	m3	4.05	2.1%	94.2%	13.7%	57.9%	42.1%	1,710.00	148.00	5,828.11	949.38	4,008.22	2,917.28	6,925.50	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	359.53	1,020.29	
W0237	Concrete Curine (reinforced concrete)	m3	5.97	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	348.90	14.5%	77.9%	7.7%	54.5%	45.5%	24.50	1,934.34	10,414.15	1,028.06	7,286.48	6,098.07	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	34.55	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	0.53	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	31.96	57.21	230.42	162.28	157.31	319.59	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		393.92	1,181.77	2,363.54	1,772.65	2,166.57	3,939.23	18.0%
Total									2,713.95	17,503.71	5,604.26	13,798.96	12,023.86	25,823.82		
Components (%)									10.5%	67.8%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									271.39	1,750.37	560.43	1,379.89	1,202.39	2,582.38		

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

W0308 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1220 (48")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 25MPa, max)	m3	5.13	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	187.47	7,382.28	1,202.35	5,077.08	3,695.22	8,772.30	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 Curine (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	1,286.36	9,135.13	7,632.67	15,767.80	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.59	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	43.49	25.61	216.04	134.61	151.54	286.15	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.67	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	40.40	72.32	291.29	205.15	198.96	404.01	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		495.79	1,487.38	2,974.77	2,231.08	2,726.97	4,957.95	18.0%
Total									3,408.89	22,029.06	7,064.15	17,969.79	15,132.31	32,502.10		
Components (%)									10.5%	67.8%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									340.89	2,202.91	706.41	1,796.98	1,513.23	3,250.21		

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

W0309 Precast Reinforced Concrete Pipe (Standard Strength 25MPa), fabrication #1520 (60")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 25MPa, max)	m3	7.62	2.1%	84.2%	13.7%	57.9%	42.1%	1,710.00	278.47	10,965.49	1,786.25	7,541.40	5,488.80	13,030.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.78	866.97	1,052.82	1,919.79	
W0237	Concrete Curine (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	19,371.12	1,928.25	13,693.36	11,441.19	25,134.55	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	64.87	39.69	322.23	200.77	225.03	426.80	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.00	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	60.30	107.94	434.76	306.19	296.81	603.00	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		740.62	2,221.87	4,443.75	3,332.81	4,073.43	7,408.24	18.0%
Total									5,101.15	32,912.27	10,538.61	25,945.88	22,606.15	48,552.03		
Components (%)									10.5%	67.8%	21.7%	53.4%	46.6%	100.0%		
Unit Rate									510.12	3,291.23	1,053.86	2,594.59	2,260.62	4,855.20		

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

W0310 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #460 (18")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 32MPa, max)	m3	0.80	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	29.16	1,352.88	185.96	912.62	654.38	1,568.00	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 Curine (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	3.29	
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	3,008.15	
R0402-010	Truck Crane, Hydraulic 6-10t	hr	0.09	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	6.63	4.05	32.96	20.53	23.12	43.65	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.10	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	6.03	10.79	43.48	30.62	29.68	60.30	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		87.87	263.62	527.24	395.43	483.30	878.73	18.0%
Total									598.06	3,972.75	1,189.76	3,088.96	2,671.62	5,760.57		
Components (%)									10.4%	69.0%	20.7%	53.4%	46.4%	100.0%		
Unit Rate									59.81	397.27	118.98	308.89	267.16	576.06		

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

W0314 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #610 (24")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 32MPa, max)	m3	1.33	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	48.48	2,249.15	309.16	1,518.90	1,087.90	2,606.80	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 Curine (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	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	3,805.67	374.97	2,682.86	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	11.05	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	0.17	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	10.25	18.35	73.91	32.05	50.46	102.51	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		144.17	432.51	865.01	648.76	792.93	1,441.69	18.0%
Total									976.85	6,512.72	1,960.50	5,068.43	4,382.64	9,451.07		
Components (%)									10.4%	69.0%	20.7%	53.4%	46.4%	100.0%		
Unit Rate									97.69	651.27	196.05	506.84	438.26	945.11		

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

W0315 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #760 (30")											Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0215	Concrete (for RCPC, 32MPa, max)	m3	1.95	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	70.35	3,263.82	448.63	2,204.12	1,578.58	3,782.80	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 Curine (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	0.25	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	15.08	26.98	105.89	76.55	74.20	150.75	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		201.83	605.48	1,210.97	908.22	1,110.05	2,018.28	18.0%
Total									1,350.80	9,108.17	2,771.95	7,098.12	5,132.80	13,230.92		
Components (%)									10.4%	68.8%	21.0%	53.6%	46.4%	100.0%		
Unit Rate									135.08	910.82	277.20	709.81	513.28	1,323.09		

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

W0316 Precast Reinforced Concrete Pipe (Standard Strength 32MPa), fabrication #910 (36")											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component											

W0335 Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication φ1070 (42") Unit: 10.00 m															
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0316	Concrete (for RCPC, 32MPa, max)	m3	4.05	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	147.62	5,448.93	941.43	4,625.22	3,312.78	7,938.00
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	3.97	15.5%	0.2%	64.3%	45.2%	54.8%	257.00	158.50	2.00	859.78	460.76	559.59	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	(6.71)
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	1,817.33	12,907.15	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	203.97	413.13
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	0.53	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	31.96	37.21	230.42	162.28	157.31	319.59
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		601.19	1,803.56	3,607.12	2,705.34	3,306.52	6,011.86
Total									4,412.91	27,194.76	7,803.41	21,072.37	18,338.71	39,411.09	
Components (%)									11.2%	69.0%	19.8%	53.5%	46.3%	100.0%	
Unit Rate									441.29	2,719.48	780.34	2,107.24	1,833.87	3,941.11	

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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max)	m3	5.13	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	186.99	6,675.33	1,192.43	5,658.61	4,196.19	10,054.80
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	5.03	15.5%	0.2%	64.3%	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	21.16
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	0.67	10.0%	17.9%	72.1%	50.8%	49.2%	803.00	40.40	47.32	291.29	205.15	198.66	404.01
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		854.44	1,963.31	3,926.63	2,944.97	3,599.41	6,544.38
Total									4,822.70	29,497.52	8,781.81	22,969.56	19,322.48	42,902.04	
Components (%)									10.8%	68.8%	20.3%	53.5%	46.5%	100.0%	
Unit Rate									482.27	2,949.75	878.18	2,296.96	1,932.25	4,290.20	

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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0216	Concrete (for RCPC, 32MPa, max)	m3	7.62	1.9%	86.3%	11.9%	58.3%	41.7%	1,960.00	277.73	12,886.17	1,771.29	6,702.26	6,232.94	14,935.20
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	7.47	15.5%	0.2%	64.3%	45.2%	54.8%	257.00	298.24	3.76	1,617.79	866.97	1,062.82	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	4.29	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	5,465.99	34,811.76	3,429.85	24,336.80	20,350.60	44,707.60
R0402-020	Truck Crane, Hydraulic 16-20t	hr	0.88	6.9%	7.7%	85.4%	51.2%	48.8%	1,070.00	64.97	72.50	804.13	494.48	457.12	941.60
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.00	10.0%	17.9%	72.1%	50.8%	49.2%	603.00	60.30	107.94	434.76	306.19	296.81	603.00
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	45.0%	55.0%		1,136.50	3,409.49	6,818.97	5,114.23	6,250.73	11,544.96
Total									8,327.22	51,294.02	14,882.36	39,835.31	34,668.28	74,503.60	
Components (%)									11.2%	68.8%	20.0%	53.5%	46.3%	100.0%	
Unit Rate									832.72	5,129.40	1,488.24	3,983.53	3,466.83	7,450.36	

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

W0341 Precast Concrete Pipe Laying φ480 (18") Unit: 10.00 m															
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40
L019	Skilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	161.20	0.00	0.00	0.00	161.20	161.20
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.28	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	188.08	102.84	834.88	520.18	385.62	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
Total									935.03	161.75	900.34	579.09	1,422.03	2,001.11	
Components (%)									45.9%	8.1%	45.0%	28.9%	71.1%	100.0%	
Unit Rate									93.50	16.18	90.03	57.91	142.20	200.11	

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

W0342 Precast Concrete Pipe Laying φ510 (24") Unit: 10.00 m															
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20
R0402-010	Truck Crane, Hydraulic 6-10t	hr	2.86	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	210.84	129.00	1,047.26	652.50	734.60	1,387.10
	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
Total									1,111.52	200.81	1,127.05	724.02	1,715.07	2,439.39	
Components (%)									45.9%	8.1%	46.2%	29.7%	70.3%	100.0%	
Unit Rate									111.15	20.08	112.71	72.40	171.51	243.94	

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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	241.80	0.00	0.00	0.00	241.80	241.80
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	385.20	0.00	0.00	0.00	385.20	385.20
R0402-010	Truck Crane, Hydraulic 6-10t	hr	3.43	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	352.86	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
Total									1,409.30	243.23	1,554.34	871.07	2,135.79	3,006.86	
Components (%)									46.9%	8.1%	45.0%	29.0%	71.0%	100.0%	
Unit Rate									140.93	24.32	155.43	87.11	213.58	300.69	

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

W0344 Precast Concrete Pipe Laying φ910 (36") Unit: 10.00 m															
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	396.20	0.00	0.00	0.00	396.20	396.20
L019	Skilled Labor	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	282.10	0.00	0.00	0.00	282.10	282.10
L020	Unskilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	396.60	0.00	0.00	0.00	396.60	396.60
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	167.69	150.91	184.45	335.35
Total									1,587.01	442.74	3,099.51	1,911.88	3,194.38	5,106.26	
Components (%)									31.0%	8.8%	60.4%	37.7%	62.3%	100.0%	
Unit Rate									158.70	44.27	309.95	191.19	319.44	510.63	

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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	

W0346 Precast Concrete Pipe Laying #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	362.70	0.00	0.00	0.00	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	0.00	785.00	785.00
R0402-015	Truck Crane, Hydraulic 11-15t	hr	3.14	8.4%	8.3%	83.3%	50.7%	49.3%	878.00	379.52	375.00	3,763.34	2,288.34	2,289.52	4,518.06	4,518.06
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	314.00	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%	6.5%	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 #1520 (60")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.50	0.00	0.00	0.00	622.50	622.50	
L019	Skilled Labor	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	443.30	0.00	0.00	0.00	443.30	443.30	
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00	
R0402-020	Truck Crane, Hydraulic 16-20t	hr	6.28	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	463.66	517.41	5,738.54	3,467.40	3,262.20	6,719.60	7.0%
	Miscellaneous	LS	1.00	5.0%	45.0%	50.0%	45.0%	55.0%	314.00	30.55	274.92	305.45	274.92	336.01	610.93	7.0%
	Total									2,502.10	792.33	6,044.00	3,732.31	5,806.11	9,338.43	
	Components (%)									26.8%	8.5%	64.7%	40.0%	60.9%	100.0%	
	Unit Rate	m								250.21	79.23	604.40	373.23	580.71	934.00	

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

W0351 Precast Concrete Pipe Removal #460 (18")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.12	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	57.92	0.00	0.00	0.00	57.92	57.92	
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 5-10t	hr	0.68	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	50.13	30.67	249.00	155.14	174.66	329.80	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%	314.00	5.59	5.59	44.73	25.16	30.73	55.91	10.0%
	Total									283.04	36.26	293.73	180.30	434.13	615.03	
	Components (%)									46.3%	5.9%	47.8%	29.3%	70.7%	100.0%	
	Unit Rate	m								28.30	3.63	29.37	18.03	43.47	61.50	

Miscellaneous covers the costs for demolition, disposal, etc.

W0352 Precast Concrete Pipe Removal #610 (24")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.15	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	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%	314.00	6.85	6.85	54.79	30.82	37.67	68.49	10.0%
	Total									333.06	45.64	369.70	227.03	376.37	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 #780 (30")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.18	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	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%	314.00	8.44	8.44	67.48	37.96	46.39	84.35	10.0%
	Total									428.35	54.89	444.64	272.95	654.93	927.88	
	Components (%)									46.2%	5.9%	47.9%	29.4%	70.6%	100.0%	
	Unit Rate	m								42.84	5.49	44.47	27.30	65.50	92.80	

Miscellaneous covers the costs for demolition, disposal, etc.

W0354 Precast Concrete Pipe Removal #910 (36")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.21	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	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%	314.00	14.37	14.37	114.39	64.88	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%	31.9%	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 #1070 (42")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	135.84	0.00	0.00	0.00	135.84	135.84	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	96.72	0.00	0.00	0.00	96.72	96.72	
L020	Unskilled Labor	md	0.69	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	216.66	0.00	0.00	0.00	216.66	216.66	
R0402-015	Truck Crane, Hydraulic 11-15t	hr	1.37	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	101.16	99.95	1,003.12	609.98	594.25	1,204.23	10.0%
	Miscellaneous	LS	1.00	10.0%	10.0%	80.0%	45.0%	55.0%	314.00	16.53	16.53	132.28	74.41	90.94	185.35	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	11.65	113.62	68.46	113.41	181.88	

Miscellaneous covers the costs for demolition, disposal, etc.

W0356 Precast Concrete Pipe Removal #1220 (48")

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.27	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	
R0402-01																

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.71	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	401.88	0.00	0.00	0.00	401.88	401.88
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	340.55	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	1,910.33	4,820.86	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	1,336.56	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	252.35	3,254.28	1,923.14	1,782.56	3,710.70
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									2,036.39	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			m ²						20.32	26.88	151.92	99.35	99.65	199.03	

Tc = [0.75 + γ · Nmax] · L + a] · K/F
 Tc : Construction time per pile = 11.2 min/pile
 a : 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

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.91	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	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	4,361.33
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	10,198.50	6,168.37	5,434.13	11,662.50
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	3.37	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	261.15	322.87	4,164.08	2,467.19	2,280.91	4,748.10
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									2,608.50	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			m ²						26.05	34.44	194.50	127.30	127.70	255.00	

Tc = [0.75 + γ · Nmax] · L + a] · K/F
 Tc : Construction time per pile = 14.3 min/pile
 a : Coefficient = 3.75
 γ : Coefficient = 0.02
 L : Pile driving length = 7.80 m
 Nmax : Maximum N-value = 30.00
 K : Coefficient = 1.00
 F : Work factor = 1.00
 T : Operation hour per day = 6.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 10.000 m

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

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	539.80	0.00	0.00	0.00	539.80	539.80
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	7,883.00
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	1,033.35	1,296.50	867.50	2,166.00
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.36	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	172.63	213.44	2,752.73	1,630.97	1,507.83	3,138.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,722.55	2,278.26	12,866.50	8,431.89	8,463.53	16,887.42	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m ²						17.24	22.80	128.96	84.39	84.62	159.00	

Tc = [0.75 + γ · Nmax] · L + a] · K/F
 Tc : Construction time per pile = 9.5 min/pile
 a : Coefficient = 3.60
 γ : Coefficient = 0.00
 L : Pile pullout length = 7.80 m
 Nmax : Maximum N-value = 30.00
 K : Coefficient = 1.00
 F : Work factor = 1.00
 T : Operation hour per day = 6.56 hr/day
 Sheet Pile width = 0.400 m
 Sheet Pile length = 10.000 m

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	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	2,810.19	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	909.95	607.25	1,516.20
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.54	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	119.97	148.32	1,912.91	1,133.39	1,047.81	2,181.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,201.15	1,587.95	8,941.90	5,854.92	5,875.19	11,730.11	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m						11.98	15.83	89.19	58.40	58.60	117.00	

Tc = (Ts + Tb) / 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 = 5.00 m
 K : Coefficient = 1.00
 Nmax : Maximum N-value = 30.00
 F : Work factor = 0.80
 T : Operation hour per day = 6.56 hr/day
 Pile Length = 12.00 m

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

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	0.36	100.0%	0.0%	0.0%	0.0%	100.0%	568.00	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	2.39	8.8%	10.0%	81.2%	49.1%	50.9%	733.00	153.52	174.45	1,416.57	866.45	888.09	1,744.54
R0401-040	Crawler Crane, 36-40t	hr	2.39	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	678.29	621.21	739.10	520.50	1,299.60
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.43	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	104.60	129.33	1,667.97	988.26	913.64	1,901.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,036.80	1,372.02	7,765.18	5,091.15	5,102.85	10,194.00	
Components (%)									10.2%	13.5%	76.3%	49.9%	50.1%	100.0%	
Unit Rate			m						10.37	13.73	77.90	50.94	51.06	102.00	

Tc = (Ts + Tb) / 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

#0411 Temporary Struts & Supports Installation

Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Amount					Remarks	
				Component (%)					Total (PP)	Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign		Local
L002	Foreman	md	1.60												

#0412 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00	
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	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%	588.00	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	3,315.12	8,211.00		
Components (%)									35.3%	9.1%	55.5%	35.7%	64.3%	100.0%		
Unit Rate									292.13	75.49	459.39	295.55	531.45	821.00		

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

#0413 Temporary Struts & Tie Rod Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	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%	588.00	0.00	1,402.76	1,714.48	1,714.48	1,402.76	3,117.24	B.0%
Total									13,038.02	4,655.80	24,395.87	16,148.55	25,934.14	42,082.69		
Components (%)									31.0%	11.1%	58.0%	38.4%	61.6%	100.0%		
Unit Rate									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.

#0414 Temporary Struts & Supports Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	2.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,641.40	0.00	0.00	0.00	1,641.40	1,641.40	
L019	Skilled Labor	md	5.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,337.40	0.00	0.00	0.00	2,337.40	2,337.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	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%	588.00	0.00	287.56	362.56	362.56	287.56	1,037.68	9.0%
Total									6,112.12	1,995.72	13,067.91	8,335.76	12,659.99	21,059.75		
Components (%)									28.8%	9.4%	61.7%	39.3%	60.7%	100.0%		
Unit Rate									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.

#0415 Temporary Deck Plate Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	3.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,329.90	0.00	0.00	0.00	1,329.90	1,329.90	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	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	0.0%	45.0%	55.0%	55.0%	45.0%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									2,781.69	458.17	4,598.26	2,796.12	3,021.90	7,818.02		
Components (%)									35.3%	5.9%	56.8%	35.8%	64.2%	100.0%		
Unit Rate									27.62	4.58	45.99	27.97	30.20	78.20		

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

#0416 Temporary Deck Plate Removal

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	339.60	0.00	0.00	0.00	339.60	339.60	
L019	Skilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	725.40	0.00	0.00	0.00	725.40	725.40	
L009	Welder	md	0.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	0.00	0.00	0.00	0.00	0.00	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	0.0%	45.0%	55.0%	55.0%	45.0%	588.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									1,506.86	230.24	2,511.47	1,527.18	2,741.19	4,268.37		
Components (%)									35.3%	5.9%	58.8%	35.8%	64.2%	100.0%		
Unit Rate									15.07	2.50	25.12	15.28	27.42	42.70		

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

#0417 Temporary Deck Plate Support Beam Installation

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.30	0.00	0.00	0.00	735.30	735.30	
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	5,422.98	3,303.89	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	754.60	
	Miscellaneous	LS	1.00	0.0%	45.0%	55.0%	55.0%	45.0%	588.00	0.00	339.07	791.16	621.63	508.60	1,130.23	10.0%
Total									4,563.56	1,184.64	6,684.30	4,373.15	8,059.38	12,432.51		
Components (%)									36.7%	9.5%	53.8%	35.2%	64.8%	100.0%		
Unit Rate									455.16	118.15	666.88	436.17	803.83	1,240.00		

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

#0418 Temporary Deck Plate Support Beam Removal

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

W0422 Temporary Access Bridge Superstructure Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	569.40	0.00	0.00	0.00	569.40	569.40	
L019	Skilled Labor	md	1.90	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	765.70	0.00	0.00	0.00	765.70	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	381.57	6,353.63	3,833.41	3,436.19	7,269.60	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	0.00	250.17	583.74	458.65	375.25	833.91	9.0%
	Total									2,330.50	831.74	6,937.37	4,292.05	5,807.53	10,099.61	
	Components (%)									23.1%	8.2%	68.7%	42.5%	57.5%	100.0%	
	Unit Rate									233.06	83.18	693.76	429.22	580.78	1,010.00	

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

W0423 Temporary Access Bridge Railing Installation

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60	
L019	Skilled Labor	md	2.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	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	1,430.00	0.00	0.00	0.00	1,430.00	1,430.00	
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	292.08	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	0.00	207.55	483.81	380.13	311.02	691.15	7.0%
	Total									3,815.45	715.28	6,029.01	3,726.20	5,806.56	10,554.75	
	Components (%)									36.1%	8.5%	62.9%	37.5%	64.7%	100.0%	
	Unit Rate									38.29	7.18	60.33	37.41	68.59	106.00	

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

W0424 Temporary Access Bridge Railing Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	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	3,178.82	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	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									21.67	3.08	32.16	19.47	37.43	56.90	

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

W0431 Temporary Drain Pump Installation & Removal

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L020	Unskilled Labor	md	2.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	879.20	0.00	0.00	0.00	879.20	879.20	
R0402-005	Truck Crane, Hydraulic 2-5t	hr	4.57	17.9%	10.9%	71.2%	45.7%	54.3%	412.00	357.03	205.23	1,340.58	860.85	1,021.99	1,882.84	
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,929.43	205.23	1,340.58	860.85	2,014.39	2,875.24	
	Components (%)									46.2%	7.1%	45.6%	29.9%	70.1%	100.0%	
	Unit Rate									1,331.63	205.57	1,342.80	862.27	2,017.73	2,880.00	

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

W0432 Temporary Drain Pump Operation

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	0.24	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	96.72	0.00	0.00	0.00	96.72	96.72	
R1004-102	Electric Water Pump 3 1/2 - 4 (8R-9-101.5em)	day	1.00	0.0%	27.1%	72.3%	53.1%	46.9%	195.00	0.00	54.02	140.99	103.62	91.38	195.00	
R1001-015	Generator 11-15 kW	day	1.00	0.0%	21.1%	78.9%	56.6%	43.4%	883.00	0.00	186.31	696.69	495.66	383.34	883.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	5.87	5.87	5.87	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									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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.94	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	532.04	0.00	0.00	0.00	532.04	532.04	
L019	Skilled Labor	md	3.74	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,507.22	0.00	0.00	0.00	1,507.22	1,507.22	
L020	Unskilled Labor	md	2.97	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	932.58	0.00	0.00	0.00	932.58	932.58	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.80	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	0.0%	40.0%	55.0%	50.0%	50.0%	0.00	7.65	61.20	84.13	76.50	76.50	153.00	3.0%
	Total									3,096.53	205.50	1,960.40	1,182.24	4,070.60	5,252.94	
	Components (%)									58.9%	3.9%	37.1%	22.5%	77.5%	100.0%	
	Unit Rate									30.35	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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
M05062	Temporary Frame Support (Portal 1219x1700)	day	17.58	0.0%	100.0%	0.0%	50.0%	50.0%	1.65	0.00	29.01	0.00	14.51	14.51	29.01	
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	70.34	0.0%	100.0%	0.0%	50.0%	50.0%	0.59	0.00	41.50	0.00	20.75	20.75	41.50	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	50.0%	50.0%	0.00	0.00	2.82	2.82	2.82	2.82	5.64	8.0%
	Total									0.60	73.33	2.82	38.08	38.08	76.15	
	Components (%)									0.2%	96.3%	3.7%	50.0%	50.0%	100.0%	
	Unit Rate									0.00	6.73	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)

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.42	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	237.12	0.00	0.00	0.00	237.12	237.12	
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</																

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.26	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	0.23	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	125.38	280.10	2,931.03	1,772.76	1,561.74	3,234.50
R1001-200	Generator 151-200 kW	day	0.26	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00	0.00	633.45	719.35	815.73	557.07	1,372.80
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.03	5.5%	6.8%	87.7%	52.0%	48.0%	1,330.00	75.34	93.15	1,201.40	711.82	658.08	1,369.90
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total									747.38	1,152.55	5,869.56	3,915.85	3,853.34	7,768.99	
Components (%)									5.6%	14.8%	75.6%	50.4%	49.6%	100.0%	
Unit Rate									7.42	11.22	58.70	39.16	38.54	77.70	

$T_c = [(0.75 + y \cdot N_{max}) \cdot L + a] \cdot K / F$
 T_c : Construction time per pile = 15.4 min/pile N_{max} : Maximum N-value = 30.00 T : Operation hour per day = 6.56 hr/day
 a : Coefficient = 3.43 K : Coefficient = 1.05 Sheet Pile width = 0.400 m
 y : 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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	403.00	0.00	0.00	0.00	403.00	403.00
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	1,948.29	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	1,235.64	1,383.36	1,588.71	1,071.29	2,649.90
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	2,605.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									1,433.23	2,209.22	11,220.76	7,489.97	7,373.24	14,863.21	
Components (%)									9.6%	14.9%	75.5%	50.4%	49.6%	100.0%	
Unit Rate									14.37	22.15	112.49	75.09	73.91	149.00	

$T_c = (T_s + T_b) / F$ L : Pile Driving Length = 15.00 m
 T_c : Construction time per pile = 29.4 min/pile K : Coefficient = 0.95
 T_s : Preparation time per pile = 10.00 min/pile N_{max} : Maximum N-value = 30.00
 T_b : Driving time per pile = $y \cdot L \cdot K = 13.34$ min/pile F : Work factor = 0.80
 y : Driving time per unit meter = $0.01 \cdot N_{max} + 0.65 = 0.95$ min/m 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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.29	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	184.14	0.00	0.00	0.00	184.14	184.14
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	621.33	1,331.20
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	
Total									828.51	1,276.80	6,461.77	4,316.30	4,250.78	5,567.08	
Components (%)									9.7%	14.9%	75.4%	50.4%	49.6%	100.0%	
Unit Rate									8.29	12.77	64.64	43.18	42.52	55.70	

$T_c = (T_s + T_b) / F$ L : Pile pull out length = 15.00 m
 T_c : Construction time per pile = 17.0 min/pile K : Coefficient = 0.95
 T_s : Preparation time per pile = 6.00 min/pile N_{max} : Maximum N-value = 30.00
 T_b : Pull out time per pile = $y \cdot L \cdot K = 9.26$ min/pile F : Work factor = 0.90
 y : Pull out time per unit meter = 0.65 min/m 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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	22.64	0.00	0.00	0.00	22.64	22.64
L019	Skilled Labor	md	0.23	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	92.69	0.00	0.00	0.00	92.69	92.69
L020	Unskilled Labor	md	0.04	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	12.56	0.00	0.00	0.00	12.56	12.56
R0402-100	Truck Crane, Hydraulic 91-100t	hr	0.22	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	16.87	28.89	1,065.43	597.26	513.74	1,111.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	9.91	14.87	12.39	54.78	
Total									744.56	38.80	1,080.32	609.65	654.01	1,263.57	
Components (%)									11.4%	3.1%	85.2%	48.2%	51.8%	100.0%	
Unit Rate									144.14	38.88	1,077.18	607.88	652.12	1,260.00	

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

W0502 Erection of Structural Steel Bridge Members Unit: 10.00 t

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	209.42	0.00	0.00	0.00	209.42	209.42
L019	Skilled Labor	md	2.25	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	906.75	0.00	0.00	0.00	906.75	906.75
L020	Unskilled Labor	md	0.37	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	116.18	0.00	0.00	0.00	116.18	116.18
R0402-100	Truck Crane, Hydraulic 91-100t	hr	2.14	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00	162.11	280.98	10,363.91	5,609.76	4,997.24	10,807.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	337.10	505.05	421.38	842.75	
Total									1,394.48	618.06	10,869.57	6,291.13	6,650.97	12,882.10	
Components (%)									10.8%	4.8%	84.4%	48.4%	51.6%	100.0%	
Unit Rate									139.64	61.89	1,089.47	629.98	666.02	1,290.00	

Miscellaneous covers the cost for generator, fuel, etc.
 $y = W / [(0.47 \cdot a) - (W \cdot 4)] \geq 9.0$ t/day W : Total weight of steel members = 1708 t
 y : Work capacity = 26.7 t/day n : number of members to be erected = 81
 a : Coefficient = $0.4 \cdot \sqrt{(0.75 \cdot W/n)}$ = 1.6

W0503 Bolting of Structural Steel Bridge Members Unit: 100.00 each

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	33.96	0.00	0.00	0.00	33.96	33.96
L019	Skilled Labor	md	0.35	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	141.05	0.00	0.00	0.00	141.05	141.05
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84
M02071	High Tension Bolt M16	each	10.00	0.0%	100.0%	0.0%	70.0%	30.0%	18.50	0.00	185.00	0.00	129.50	55.50	185.00
M02072	High Tension Bolt M20	each	30.00	0.0%	100.0%	0.0%	70.0%	30.0%	29.20	0.00	876.00	0.00	613.20	262.80	876.00
M02073	High Tension Bolt M22	each	40.00	0.0%	100.0%	0.0%	70.0%	30.0%	42.20	0.00	1,688.00	0.00	1,181.60	506.40	1,688.00
M02074	High Tension Bolt M24	each	20.00	0.0%	100.0%	0.0%	70.0%	30.0%	62.70	0.00	1,254.00	0.00	877.80	376.20	1,254.00
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	50.0%	50.0%	0.00	0.00	67.15	100.72	83.94	83.94	
Total									193.85	4,070.15	100.72	2,866.04	1,478.69	4,364.72	
Components (%)									4.4%	91.3%	2.3%	66.1%	31.9%	100.0%	
Unit Rate									1.94	40.66	1.01	28.83	14.77	43.60	

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

#0504 Finish Painting of Structural Steel Bridge Members

Unit: 100.00 m²

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	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	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	0.00	765.70	765.70
W06020	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%
W06020	Silicon Alkyd Resin Paint for Steel	kg	11.35	0.0%	100.0%	0.0%	65.0%	35.0%	250.00	0.00	2,832.50	0.00	1,841.13	991.37	2,832.50	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	55.0%	45.0%	0.00	0.00	516.52	1,205.21	946.95	774.78	1,751.73	15.0%
	Total									6,555.70	6,439.02	1,205.21	4,795.58	8,403.35	18,993.93	
	Components (%)									42.1%	48.8%	9.1%	36.3%	63.7%	100.0%	
	Unit Rate	m ²								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

#0505 Temporary Bent for Steel Bridge Erection

Unit: 1.00 t

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	
W05041	Temporary Steel Shanes Depreciation	t-d	444.00	0.0%	100.0%	0.0%	50.0%	50.0%	31.50	0.00	13,897.20	0.00	6,948.60	6,948.60	13,897.20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.13	5.3%	6.8%	87.7%	32.0%	45.0%	1,350.00	8.51	11.75	151.65	59.94	172.80	172.80	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m ³	0.53	2.9%	78.4%	18.8%	56.3%	43.7%	1,340.00	20.13	536.78	133.29	399.85	310.95	710.20	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m ³	0.52	18.8%	0.2%	81.0%	43.4%	58.6%	213.00	20.82	0.22	89.72	48.09	62.67	110.76	
W0236	Concrete Curing (plain concrete)	m ³	0.52	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	3.26	0.40	0.91	0.74	3.86	4.60	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%	0.00	46.54	139.63	279.27	232.72	232.72	465.45	3.0%
	Total									719.57	14,605.99	634.86	7,719.84	8,260.57	15,960.41	
	Components (%)									4.8%	91.4%	4.1%	48.3%	51.7%	100.0%	
	Unit Rate	t								720.45	14,623.89	655.66	7,729.31	8,270.69	16,000.00	

Miscellaneous covers the cost for preparation of foundation bed, maintenance, etc.
 D = 0.22-T + L.4
 D : Required days = 123.87 days
 T : Total weight of bent = 556.70 t
 Depreciation period = 444 days
 Base Concrete = 288.00 m³

#0506 Site Welding for Steel Bridge

Unit: 10.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	1.00	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%	39.5%	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	5,633.25	5,178.74	5,492.42	4,337.48	10,930.00	
R1002-160	Air Compressor 126-160 cfm (3.5-4.5m ³ /min)	day	3.00	0.0%	27.8%	72.2%	57.2%	42.8%	2,050.00	0.00	1,743.05	4,526.94	3,588.45	2,681.55	6,270.00	
	Miscellaneous	LS	1.00	3.0%	40.0%	57.0%	50.0%	50.0%	0.00	114.93	1,532.33	2,183.64	1,915.48	1,915.48	3,830.95	14.0%
	Total									7,291.87	10,793.25	13,109.77	13,868.58	17,326.58	31,154.89	
	Components (%)									23.4%	34.6%	42.0%	44.2%	55.5%	100.0%	
	Unit Rate	m								729.19	1,079.33	1,311.19	1,386.86	1,732.66	3,115.49	

Miscellaneous covers the cost for welding rods, acetylene gas, falseworks, testing, etc.
 G = M x a / (0.10-M + 12.2)
 G : Daily productivity = 5.68 m/day
 M : Total length of welding = 446.5 m
 a : Coefficient due to average thickness = 0.85

#0521 Precast PC Girder Fabrication Base Construction & Removal

Unit: 72.00 girder

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
L002	Foreman	md	2.48	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	1,403.68	0.00	0.00	0.00	1,403.68	1,403.68	
L019	Skilled Labor	md	7.44	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,998.32	0.00	0.00	0.00	2,998.32	2,998.32	
L019	Skilled Labor	md	13.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	4,997.20	0.00	0.00	0.00	4,997.20	4,997.20	
L020	Unskilled Labor	md	31.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	9,734.00	0.00	0.00	0.00	9,734.00	9,734.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	0.00	2,965.65	2,965.65	3,262.21	2,969.08	5,931.29	31.0%
	Total									19,131.20	2,965.65	2,965.65	3,262.21	21,802.38	25,044.49	
	Components (%)									76.3%	11.8%	11.8%	15.0%	87.0%	100.0%	
	Unit Rate	girder								265.83	41.18	41.18	45.29	302.71	348.00	

Miscellaneous covers the cost for lumber, plywood, nail, etc.
 Total number of girders = 72
 Maximum Girder Length = 30.000 m
 Number of bases = 4

#0522 Precast PC Girder Fabrication Base Maintenance

Unit: 1.00 girder

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
L005	Carpenter	md	0.22	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	275.28	0.00	0.00	0.00	275.28	275.28	
L020	Unskilled Labor	md	0.31	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	97.34	0.00	0.00	0.00	97.34	97.34	
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total									372.62	0.00	0.00	0.00	372.62	372.62	
	Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
	Unit Rate	girder								373.00	0.00	0.00	0.00	373.00	373.00	

Base Length = 31.000 m

#0535 PC Strand (8-T12, 150t) Installation for Precast PC Girder

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	6.80	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	
W09306	PC Strand, T12.7	kg	656.55	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%
W09331	PC Sheath, 460	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)	m ³	0.23	1.0%	98.3%	2.8%	61.3%	38.7%	3,050.00	0.00	676.65	18.14	429.81	271.69	911.50	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	759.61	184.90	508.48	416.03	824.52	1.0%
	Total									5,514.21	87,658.81	203.04	60,704.32	32,671.74	98,376.07	
	Components (%)									5.9%	93.9%	0.2%	65.0%	35.0%	100.0%	
	Unit Rate	m								55.18	876.81	2.03	607.20	326.80	934.00	

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

#0536 PC Strand (10-T12, 7, 190t) Installation for Precast PC Girder

Unit: 100.00 m

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
L002	Foreman	md	1.70	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	962.20	0.00	0.00	0.00	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									

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	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%	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%	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	6,177.25	17,586.80	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									4,662.05	738.65	16,426.07	9,409.51	12,417.29	21,826.50	21,826.50	
Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%	100.0%	
Unit Rate									46.56	7.36	164.06	93.98	124.02	218.00	218.00	
Work Capacity =									100 t/day							

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	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%	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%	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	6,177.25	17,586.80	17,586.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									4,662.08	738.65	16,426.07	9,409.51	12,417.29	21,826.50	21,826.50	
Components (%)									21.4%	3.4%	75.3%	43.1%	56.9%	100.0%	100.0%	
Unit Rate									42.29	6.70	149.01	85.35	112.54	198.00	198.00	
Work Capacity =									110 t/day							

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	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%	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%	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	35,173.60
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,204.17	1,477.29	32,852.14	18,819.03	21,714.57	40,533.50	40,533.50	
Components (%)									15.3%	3.6%	81.0%	46.4%	53.6%	100.0%	100.0%	
Unit Rate									32.60	7.76	172.60	98.89	114.11	213.00	213.00	
Work Capacity =									190 t/day							

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	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%	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%	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	77,099.70	42,853.75	36,629.45	79,483.20	79,483.20
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,234.32	1,510.18	77,099.70	42,853.75	41,989.45	84,843.20	84,843.20	
Components (%)									5.3%	1.8%	90.9%	50.3%	49.7%	100.0%	100.0%	
Unit Rate									27.70	6.71	342.59	199.42	165.58	377.00	377.00	
Work Capacity =									225 t/day							

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

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	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%	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%	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%	6,240.00	846.91	1,787.92	31,465.98	50,842.72	43,258.08	94,100.80	94,100.80
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,206.91	1,787.92	31,465.98	50,842.72	48,618.08	99,460.80	99,460.80	
Components (%)									8.2%	1.8%	92.0%	51.1%	48.9%	100.0%	100.0%	
Unit Rate									26.40	7.60	389.00	216.23	206.77	423.00	423.00	
Work Capacity =									235 t/day							

W0558 Precast PC Girder Erection (75.0 ≤ W < 80.0 t)

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	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%	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%	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	99,449.38	55,294.14	46,914.86	102,209.00	102,209.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total									6,172.67	1,941.97	99,449.38	55,294.14	52,374.86	107,668.00	107,668.00	
Components (%)									5.7%	1.8%	92.5%	51.4%	48.6%	100.0%	100.0%	
Unit Rate									24.69	7.75	357.54	221.03	208.97	430.00	430.00	
Work Capacity =									250 t/day							

W0601 Pier Protection Concrete Block Type A Production & Laying

Item No.	Description	Unit	Quantity	Unit Rate						Amount						Remarks
				Component (%)						Component (PP)						
				Lab	Mat.	Equip.	For.	Local	Total (PP)	Labor	Material	Equipment	Foreign	Local	Total (PP)	
W0203	Concrete (Class A, 21MPa, max size 38mm)	m3	10.73	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	398.78	13,871.12	2,576.20	9,584.82	7,261.23	16,846.10	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.32	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 Curbing (reinforced concrete)	m3	10.32	74.6%	7.6%	17.8%	14.0%	86.0%	4.21	33.05	3.37	7.87	6.15	38.11	44.29	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	262.60	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	929.22	4,711.64	477.72	3,303.72	2,914.56	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	116.14	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%	0.0%	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%	0.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
	Miscellaneous	LS	1.60	0.0%	0.0%	50.0%	55.0%	45.0%	0.00	0.00	295.44	295.44	324.99	263.90	590.88	
Total									4,324.42	19,003.61	6,807.09	15,153.05	14,982.04	30,135.09	30,135.09	
Components (%)									14.4%	63.1%	22.6%	50.3%	49.7%	100.0%	100.0%	
Unit Rate									431.94	1,898.13	679.92	1,513.54	1,496.46	3,010.00	3,010.00	
Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.									Concrete = 1.052 m3/each							

W0603 Pier Protection Concrete Block Type C Production & laying											Unit: 10.00 each					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
W0203	Concrete (Class A, 21MPa, max agg 38mm)	m ³	10.09	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	374.99	13,043.77	2,422.54	9,013.13	6,828.17	15,841.30	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle finished concrete	m ³	9.99	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	394.86	4.98	2,141.88	1,147.84	1,955.89	2,541.73	
W0237	Concrete Curing Reinforced concrete	m ³	9.99	74.8%	7.6%	17.8%	14.0%	86.0%	4.21	31.07	3.17	7.40	5.81	35.63	41.64	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	206.90	15.2%	77.0%	7.8%	54.0%	46.0%	23.30	838.28	4,250.52	430.97	2,980.40	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	116.14	116.73	1,171.53	712.39	699.01	1,406.40	
L002	Foreman	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	792.40	0.00	0.00	0.00	792.40	792.40	
L020	Unskilled Labor	md	5.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,632.80	0.00	0.00	0.00	1,632.80	1,632.80	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%	0.00	277.76	277.76	305.54	249.98	555.52	2.0%	
Total									4,182.55	17,696.93	6,452.08	14,165.09	14,165.47	28,331.55		
Components (%)									14.8%	62.5%	22.8%	50.0%	50.0%	100.0%		
Unit Rate									417.26	1,767.72	644.49	1,414.33	1,415.07	2,830.00		
Miscellaneous covers the cost for mould, forms, cart, minor tools, etc.											Concrete = 0.989 m ³ /each					

W0611 Stone Laying											Unit: 100.00 m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	283.00	0.00	0.00	0.00	283.00	283.00	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	0.00	0.00	0.00	0.00	403.00	403.00	
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	m ³	113.00	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	2,584.61	4,132.57	15,430.83	9,944.24	12,203.76	22,148.00	Loss 13.0%
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	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	5.3%	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	0.0%	5.3%	6.8%	87.7%	52.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									3,722.08	5,404.16	28,531.16	17,949.01	19,808.39	37,731.40		
Components (%)									9.9%	14.3%	75.8%	47.5%	52.5%	100.0%		
Unit Rate									37.22	54.10	286.53	179.69	198.31	376.60		

W0651 Temporary Support at Pier Head for Cantilever Construction											Unit: 10.00 v-m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.40	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	323.90	0.00	0.00	0.00	323.90	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 Deterioration	m ³ -d	740.00	0.0%	96.3%	3.7%	50.0%	50.0%	0.76	0.00	543.30	20.88	281.94	281.94	563.88	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.3%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.85	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	2,132.32	4,257.77		
Components (%)									24.3%	17.8%	47.9%	35.4%	64.6%	100.0%		
Unit Rate									146.20	75.65	204.15	150.62	215.38	426.00		
Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.											Provided days = 74.0 days					

W0652 Temporary Bracket Support at Pier Head for Cantilever Construction											Unit: 1.00 t					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L005	Carpenter	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	88.80	0.00	0.00	0.00	88.80	88.80	
L019	Skilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	967.20	0.00	0.00	0.00	967.20	967.20	
L020	Unskilled Labor	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	502.40	0.00	0.00	0.00	502.40	502.40	
W05041	Temporary Steel Shanes Deterioration	v-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	5.3%	6.8%	87.7%	52.0%	48.0%	1,330.00	125.09	154.85	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	439.92	733.16	733.16	1,466.32	23.0%	
Total									1,909.89	3,497.28	2,434.46	3,073.02	4,788.60	7,341.62		
Components (%)									24.4%	44.6%	31.0%	39.2%	60.8%	100.0%		
Unit Rate									1,909.49	3,496.55	2,433.95	3,072.59	4,787.61	7,340.00		
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-m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.10	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 Deterioration	m ³ -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	5.3%	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	501.20	166.23	157.82	33.04	33.04	666.08	4.0%
Total									2,047.87	516.06	700.76	644.13	1,013.99	1,718.02		
Components (%)									28.2%	30.0%	40.8%	37.5%	62.5%	100.0%		
Unit Rate									204.79	51.61	70.08	64.41	101.40	171.80		
Miscellaneous covers the cost for lumber, brackets, embedded steels, bolts, etc.											Provided days = 57.0 days					

W0654 Temporary Suspension Support at Center Connection for Cantilever Construction											Unit: 1.00 t					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	226.40	0.00	0.00	0.00	226.40	226.40	
L005	Carpenter	md	0.20	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	2.60	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	
W05041	Temporary Steel Shanes Deterioration	v-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	5.3%	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	2,048.61	1,203.68	515.86	859.76	859.76	1,719.31	26.0%
Total									2,047.87	2,431.74	3,850.39	3,320.22	5,009.78	8,330.60		
Components (%)									24.8%	29.2%	46.2%	39.5%	60.1%	100.0%		
Unit Rate									2,047.87	2,431.74	3,850.39	3,320.22	5,009.78	8,330.60		
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-m ³					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)		
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	

W0657 Temporary External & Internal Support at Side Span for Cantilever Construction											Unit: 10.00 v-m3				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L005	Carpenter	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	444.00	44.40	0.00	0.00	0.00	44.40	44.40
L019	Skilled Labor	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	201.50	0.00	0.00	0.00	201.50	201.50
L020	Unskilled Labor	md	0.53	100.0%	0.0%	0.0%	0.0%	100.0%	514.00	257.00	0.00	0.00	0.00	257.00	257.00
M09306	Temporary Forms Support Depreciation	md	530.00	0.0%	0.0%	3.7%	50.0%	50.0%	0.76	388.50	0.00	14.92	201.32	201.32	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	51.35	864.85	395.92	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									50.12	48.58	70.08	62.82	105.80	168.63	

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

W0661 Assembly & Disassembly of Form Traveler											Unit: 1.00 set				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	14.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	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	55.55	3.3%	5.0%	91.7%	53.1%	46.9%	2,240.00	6,351.25	9,592.80	175,931.95	101,824.89	90,031.11	191,855.00
	Miscellaneous	LS	1.00	0.0%	70.0%	30.0%	50.0%	50.0%	0.00	75,322.25	59,459.88	197,303.58	137,444.24	197,641.43	335,085.69
Total									75,322.25	75,322.25	197,303.58	137,444.24	197,641.43	335,085.69	
Components (%)									23.4%	17.7%	58.9%	41.0%	59.0%	100.0%	
Unit Rate									75,322.25	75,322.25	197,303.58	137,444.24	197,641.43	335,085.69	

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

W0662 Form Traveler Shifting											Unit: 1.00 time				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.90	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	509.40	0.00	0.00	0.00	509.40	509.40
L019	Skilled Labor	md	1.40	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	564.20	0.00	0.00	0.00	564.20	564.20
L020	Unskilled Labor	md	1.80	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	565.20	0.00	0.00	0.00	565.20	565.20
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	50.0%	50.0%	0.00	265.49	176.99	221.24	221.24	442.48	27.0%
Total									1,538.80	265.49	176.99	221.24	221.24	442.48	
Components (%)									78.7%	12.8%	8.5%	10.6%	89.4%	100.0%	
Unit Rate									1,538.80	265.49	176.99	221.24	221.24	442.48	

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

W0663 Form Traveler Lifting											Unit: 1.00 time				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	566.00	0.00	0.00	0.00	566.00	566.00
L019	Skilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	2,116.50	0.00	0.00	0.00	2,116.50	2,116.50
L020	Unskilled Labor	md	7.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	2,198.00	0.00	0.00	0.00	2,198.00	2,198.00
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	100.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									4,980.50	4,980.50	0.00	0.00	0.00	4,980.50	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									4,980.50	4,980.50	0.00	0.00	0.00	4,980.50	

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

W0664 Form Traveler Pulling Back											Unit: 10.00 m				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	293.00	0.00	0.00	0.00	293.00	293.00
L019	Skilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	483.60	0.00	0.00	0.00	483.60	483.60
L020	Unskilled Labor	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	376.80	0.00	0.00	0.00	376.80	376.80
	Miscellaneous	LS	1.00	0.0%	0.0%	0.0%	0.0%	100.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total									1,343.40	0.00	0.00	0.00	0.00	1,343.40	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									1,343.40	0.00	0.00	0.00	0.00	1,343.40	

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

W0671 PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)											Unit: 1.00 t				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	4.40	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	2,490.40	0.00	0.00	0.00	2,490.40	2,490.40
L019	Skilled Labor	md	23.30	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	9,389.90	0.00	0.00	0.00	9,389.90	9,389.90
L020	Unskilled Labor	md	17.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	5,432.20	0.00	0.00	0.00	5,432.20	5,432.20
M09306	PC Strand, T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.90	0.00	83,846.00	35,934.00	119,780.90
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	2,265.47	6,235.79	5,059.56	11,332.35	
Total									17,564.40	129,156.09	6,267.26	92,445.23	60,537.52	152,985.75	
Components (%)									11.5%	84.4%	4.1%	60.4%	39.8%	100.0%	
Unit Rate									17,564.40	129,156.09	6,267.26	92,445.23	60,537.52	152,985.75	

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

W0672 PC Cable Anchorage, (12-T12.7, 225t) for PC Box Girder (Longitudinal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L019	Skilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	1,209.00	0.00	0.00	0.00	1,209.00	1,209.00
M09306	PC Anchorage 195.225t (27)3E (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									121.23	11,886.51	857.67	9,129.29	3,735.78	12,865.08	

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

W0673 PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)											Unit: 10.00 each				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	849.00	0.00	0.00	0.00	849.00	849.00
L019	Skilled Labor	md	8.70	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3,506.10	0.00	0.00	0.00	3,506.10	3,506.10
L020	Unskilled Labor	md	5.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1,664.20	0.00	0.00	0.00	1,664.20	1,664.20
M09306	PC Strand, T12.7	kg	1,060.00	0.0%	100.0%	0.0%	70.0%	30.0%	113.00	0.00	119,780.90	0.00	83,846.00	35,934.00	119,780.90
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%	658.00	0.00	0.00	984.00	534.15	449.85	984.00
R0711-005	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	385.58	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	977.20	1,920.00
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	3,245.31	2,164.21	2,975.78	2,434.73	5,410.52	6.0%
Total									6,019.50	83,673.57	5,892.94	63,318.76	30,267.06	95,385.82	
Components (%)									6.3%	87.5%	6.2%	68.3%	31.7%	100.0%	
Unit Rate									602.02	8,368.60	589.38	6,331.87	3,027.15	9,538.58	

Miscellaneous covers the cost

W0677 PC Cable Anchorage, (5-T12.7, 90t) for PC Box Girder (Transversal)											Unit: 10.00 each		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
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	816.30	846.30		
M09363	PC Anchorage 32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	2,082.02	1,388.02	1,908.52	1,561.52	3,470.04	25.0%	
Total									403.00	846.30	12,500.00	1,388.02	11,908.52	15,611.84			
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									403.00	846.30	1,250.00	1,388.02	1,908.52	1,561.52			
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		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	1.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	622.60	0.00	0.00	0.00	622.60	622.60		
L019	Skilled Labor	md	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, 3/8"	m	10.00	0.0%	100.0%	0.0%	85.0%	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	0.00	407.78	271.85	373.79	305.83	673.52	9.0%	
Total									3,297.00	8,924.58	14,297.83	5,118.48	10,728.51	15,747.91			
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									3,297.00	8,924.58	14,297.83	5,118.48	10,728.51	15,747.91			
Miscellaneous covers the cost forms, grout hose, tape, etc.																	

W0681 PC Bar Installation, (1-32mm) for PC Box Girder (Transversal)											Unit: 1.00 t		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60		
L019	Skilled Labor	md	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, 3/2"	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	1,627.29	3,803.80		
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,812.71	6.0%	
Total									8,950.61	14,388.83	143,388.83	5,118.48	10,728.51	15,747.91			
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									8,950.61	14,388.83	143,388.83	5,118.48	10,728.51	15,747.91			
Miscellaneous covers the cost for sheaths, grout, tape, additional bars, binding wire, etc.																	

W0682 PC Bar Anchorage, (1-32mm) for PC Box Girder (Transversal)											Unit: 10.00 each		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
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 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	1,501.17	1,001.17	1,126.32	2,502.93	18,146.23	16.0%	
Total									403.00	443.30	16,701.17	1,001.17	12,776.61	5,369.62	18,146.23		
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									403.00	443.30	1,670.17	1,001.17	1,277.66	1,569.62			
Miscellaneous covers the cost forms, grout hose, tape, etc.																	

W0683 PC Bar Tensioning, (32mm) for PC Box Girder (Transversal)											Unit: 10.00 each		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	0.80	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	452.80	0.00	0.00	0.00	452.80	452.80		
L019	Skilled Labor	md	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 32 (T)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00	0.00	12,500.00	0.00	9,375.00	3,125.00	12,500.00		
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	439.36	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	0.00	312.88	209.25	287.72	235.41	523.13	3.0%	
Total									2,934.60	12,828.42	14,297.83	5,118.48	10,728.51	17,960.93			
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									2,934.60	12,828.42	14,297.83	5,118.48	10,728.51	17,960.93			
Miscellaneous covers the cost forms, grout hose, tape, etc.																	

W0686 PC Bar Installation, (1-32mm) for PC Box Girder (Vertical in Web)											Unit: 1.00 t		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
L002	Foreman	md	1.60	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	905.60	0.00	0.00	0.00	905.60	905.60		
L019	Skilled Labor	md	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, 3/2"	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	1,627.29	3,803.80		
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	55.0%	45.0%	0.00	0.00	7,130.17	1,782.54	4,901.99	4,010.72	8,812.71	6.0%	
Total									8,950.61	14,388.83	143,388.83	5,118.48	10,728.51	15,747.91			
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									8,950.61	14,388.83	143,388.83	5,118.48	10,728.51	15,747.91			
Miscellaneous covers the cost for sheaths, grout, tape, additional bars, binding wire, etc.																	

W0687 PC Bar Anchorage, (1-32mm) for PC Box Girder (Vertical in Web)											Unit: 10.00 each		Remarks				
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks	
				Component (%)						Component (PP)							
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local	Total (PP)			
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 32 (F)	set	10.00	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00	0.00	15,200.00	0.00	11,400.00	3,800.00	15,200.00		
	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45.0%	0.00	0.00	1,501.17	1,001.17	1,126.32	2,502.93	18,146.23	16.0%	
Total									403.00	443.30	16,701.17	1,001.17	12,776.61	5,369.62	18,146.23		
Components (%)									100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
Unit Rate									403.00	443.30	1,670.17	1,001.17	1,277.66	1,569.62			
Miscellaneous covers the cost forms, grout hose, tape, etc.																	

W0688 PC Bar Tensioning, (1-32mm) for PC Box Girder (Vertical in Web)											Unit: 10.00 each		Remarks			
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Total (PP)	Remarks
				Component (%)						Component (PP)						
				Lab	Mat	Equip	For	Local	Labor	Material	Equipment	Foreign	Local			

W0701 Precast Concrete Cover (580x480x70), furnish										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	1.76	2.2%	84.0%	13.3%	27.1%	42.9%	1,670.00	64.11	2,469.63	405.46	1,679.12	1,260.08	2,959.20	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.73	15.5%	0.2%	84.3%	45.2%	54.8%	257.00	89.07	0.87	374.67	200.78	243.83	444.61	
W0257	Concrete Curing (reinforced concrete)	m3	1.73	74.6%	7.6%	17.3%	14.0%	86.0%	4.21	5.43	0.55	1.29	5.26	7.28	8.0%	
W02001	Reinforcing Bars, Grade 40	kg	305.40	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	4,886.40	0.00	3,176.16	1,710.24		4,886.40
W02011	Structural Steel (Round Bar, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	3,271.56	0.00	1,590.09	681.47	2,271.56	
W02014	Structural Steel (Shapes, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	675.54	0.00	473.09	202.75	675.54	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.11	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	6.62	9.47	32.97	24.04	25.02	49.06	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	270.57	67.64	169.11	169.11	338.22	3.0%
	Total								145.24	10,584.90	882.03	7,313.40	4,298.77	11,612.17		
	Components (%)								1.3%	91.2%	7.5%	63.0%	37.0%	100.0%		
	Unit Rate	each							1.43	105.74	8.81	73.06	42.94	116.00		

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

W0702 Precast Concrete Cover (580x480x70), installation										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	169.80	0.00	0.00	0.00	169.80	169.80	
L020	Unskilled Labor	md	2.40	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	753.60	0.00	0.00	0.00	753.60	753.60	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	11.08	99.73	55.40	55.40	110.81	12.0%
	Total								880.00	933.40	11.08	99.73	55.40	979.61	1,034.21	
	Components (%)								89.3%	1.1%	9.8%	5.4%	54.8%	100.0%		
	Unit Rate	each							9.20	0.11	0.99	0.55	9.75	10.30		

Miscellaneous covers the cost for cart, etc.

W0703 Precast Concrete Cover (680x580x75), furnish										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
W0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3	3.02	2.2%	84.0%	13.3%	27.1%	42.9%	1,670.00	110.01	4,237.66	692.73	2,861.21	2,162.19	5,943.40	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	2.96	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	650.04	1.30	11.70	7.15	655.89	663.04	
W0237	Concrete Curing (reinforced concrete)	m3	2.96	74.6%	7.6%	17.3%	14.0%	86.0%	4.21	9.30	0.95	2.21	1.74	10.72	12.46	8.0%
W02001	Reinforcing Bars, Grade 40	kg	607.30	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	9,716.80	0.00	6,315.92	3,400.88	9,716.80	
W02011	Structural Steel (Round Bar, SS400)	kg	38.40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	837.12	0.00	585.98	251.14	837.12	
W02014	Structural Steel (Shapes, SS400)	kg	104.20	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	1,833.92	0.00	1,283.74	580.18	1,833.92	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	0.19	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	11.44	16.35	56.95	41.52	43.22	84.74	
	Miscellaneous	LS	1.00	0.0%	80.0%	20.0%	50.0%	50.0%	0.00	0.00	436.80	109.15	232.87	232.87	545.74	3.0%
	Total								760.76	17,080.70	878.74	11,995.14	7,347.69	18,737.23		
	Components (%)								8.2%	91.2%	4.7%	50.8%	39.2%	100.0%		
	Unit Rate	each							7.79	170.47	8.74	113.68	73.32	187.00		

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

W0704 Precast Concrete Cover (680x580x75), installation										Unit: 100.00 each					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
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								880.00	933.40	110.81	55.40	55.40	1,034.21	
	Components (%)								89.3%	0.0%	10.7%	5.4%	54.6%	100.0%	
	Unit Rate	each							9.20	0.00	1.10	0.55	9.75	10.30	

Miscellaneous covers the cost for cart, etc.

W0711 Iron Step for Drop Inlet Manholes, furnish & installation										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	405.20	0.00	0.00	0.00	405.20	405.20	
W02011	Structural Steel (Round Bar, SS400)	kg	226.90	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,946.42	0.00	3,462.49	1,483.93	4,946.42	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	86.56	345.32	216.45	216.45	432.80	8.0%
	Total								464.80	5,033.00	346.32	3,679.94	2,166.17	5,944.12		
	Components (%)								3.0%	86.1%	5.9%	63.0%	37.0%	100.0%		
	Unit Rate	each							4.64	50.29	3.46	36.76	21.64	59.40		

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

W0712 Iron Step for Special Junction Box Manholes, furnish & installation										Unit: 100.00 each						
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W02011	Structural Steel (Round Bar, SS400)	kg	209.50	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	4,569.28	0.00	3,198.55	1,370.78	4,569.28	
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	80.55	322.18	201.36	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	Component (%)					Total (PP)	Amount					Remarks	
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60	
L020	Unskilled Labor	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	408.20	0.00	0.00	0.00	408.20	408.20	
W02001	Reinforcing Bars, Grade 40	kg	41.20	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	659.20	0.00	428.46	230.72	659.20	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	8.99	80.93	44.96	89.92	8.0%	
	Total								464.80	668.19	80.93	473.44	740.48	1,273.92		
	Components (%)								35.3%	55.0%	8.7%	39.0%	61.0%	100.0%		
	Unit Rate	kg							11.60	16.65	2.02	11.82	18.48	30.50		

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

W0721 Grating Cover for U-Ditch (W=300mm), furnish & installation										Unit: 10.00 m2					
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Amount					Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	md	0.10	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	56.60	0.00	0.00	0.00	56.60	56.60
L009	Welder	md	1.00	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
W02014	Structural Steel (Flat Bar, SS400)	kg	206.50	0.0%	100.0%	0.0%	70.0%	30.0%	17.60	0.00	3,634.40	0.00	2,544.05	1,090.22	3,634.40
W02012	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
W02001	Reinforcing Bars, Grade 40	kg	24.47	0.0%	100.0%	0.0%	65.0%	35.0%	16.00	0.00	391.52	0.00	254.49	137.03	391.52
	Miscellaneous	LS	1.00	0.0%	30.0%	30.0%	50.0%	50.0%	0.00	0.00	111.57	111.57	111.57	223.15	2.0%

W0732 Granular Bedding for Rubble Concrete

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0.0%	100.0%	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%	15.3%	75.4%	47.0%	53.0%	258.00	260.90	480.85	2,324.25	1,436.21	1,839.79	3,096.00	Loss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	0.00	0.00	15.83	82.82	39.08	36.06	73.15	2.0%
	Total									1,092.50	496.43	2,397.77	1,495.28	2,490.57	3,965.85	
	Components (%)									21.4%	12.5%	60.1%	37.5%	62.5%	100.0%	
	Unit Rate	m3								169.37	49.70	239.93	149.68	249.32	399.00	

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

W0733 Washout Prevention Filter, furnish and laying

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	0.06	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	18.84	0.00	0.00	0.00	18.84	18.84	
M0202	Filter Cloth	m2	10.70	0.0%	100.0%	0.0%	60.0%	40.0%	82.30	0.00	880.61	0.00	328.37	352.24	850.61	Loss 7.0%
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%	0.00	0.00	1.80	16.19	8.99	8.99	17.99	2.0%
	Total									18.84	882.41	16.19	337.36	380.06	917.44	
	Components (%)									2.1%	96.2%	1.8%	58.6%	41.4%	100.0%	
	Unit Rate	m2								1.88	85.20	1.62	53.71	37.99	91.70	

Miscellaneous covers the costs for minor tools, etc.

W0741 Grouted Riprap Class A

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	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	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	205.85	329.14	1,229.00	792.02	971.96	1,764.00	Loss 20.0%
W0221	Mortar (1:2)	m3	2.55	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	75.91	4,353.52	211.57	1,945.20	4,641.00	1.0%	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	72.96	36.33	72.96	1.0%	
	Total									1,142.57	4,682.86	1,513.23	3,523.65	3,814.70	7,338.28	
	Components (%)									14.2%	67.8%	22.8%	48.0%	52.0%	100.0%	
	Unit Rate	m3								114.26	468.38	151.36	352.44	381.58	734.00	

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

W0742 Stone Masonry, laid

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	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	11.7%	18.7%	69.7%	44.9%	55.1%	196.00	192.13	307.20	1,147.07	739.22	907.18	1,646.40	Loss 20.0%
W0222	Mortar (1:2)	m3	3.06	1.5%	94.1%	4.5%	58.2%	41.8%	2,340.00	104.18	6,734.53	321.69	4,166.13	2,994.27	7,160.40	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	99.45	49.73	49.73	99.45	1.0%
	Total									1,434.71	7,041.73	1,568.21	4,955.08	5,089.58	10,044.65	
	Components (%)									14.3%	70.1%	15.0%	49.3%	50.7%	100.0%	
	Unit Rate	m3								142.83	701.94	156.12	495.30	506.70	1,000.00	

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 Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	m3	0.60	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	m3	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	m3	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	
M1202	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 (1:2)	m3	0.37	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	11.01	631.69	30.70	391.07	282.33	673.40	Loss 3.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	38.66	19.33	38.66	1.0%	
	Total									1,883.71	1,951.69	69.36	740.43	3,164.36	5,904.76	
	Components (%)									48.2%	50.0%	1.8%	19.0%	81.0%	100.0%	
	Unit Rate	each								18.61	19.49	0.69	7.59	31.61	59.00	

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

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

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	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	1.99	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	86.34	67.96	80.14	54.16	134.30	
W0122	Crushed Aggregate, transported	m3	13.56	9.1%	15.3%	75.4%	47.0%	53.0%	258.00	317.42	543.36	2,637.70	1,645.51	1,852.97	3,498.48	Loss 32.0%
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									1,428.32	685.05	3,289.38	2,091.66	3,311.09	5,402.75	
	Components (%)									26.4%	12.7%	60.9%	38.7%	61.3%	100.0%	
	Unit Rate	m2								14.28	6.85	32.88	20.91	33.09	54.00	

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

				Unit Rate					Amount							
Item No.	Description	Unit	Quantity	Component (%)					Total (PP)	Component (PP)					Total (PP)	Remarks
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		
L002	Foreman	md	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	
W0202	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10.40	2.4%	82.3%	15.3%	56.9%	43.1%	1,570.00	386.51	13,444.52	2,496.97	9,290.04	7,037.96	16,328.00	Loss 4.0%
W07101	Joint Filler (bituminous c=10mm)	m2	2.50	0.0%	100.0%	0.0%	60.0%	40.0%	288.00	0.00	715.00	0.00	429.00	288.00	715.00	
W07111	Joint Sealant (10x10mm)	m	59.00	0.0%	100.0%	0.0%	60.0%	40.0%	62.70	0.00	3,155.00	0.00	1,881.00	1,254.00	3,155.00	
W02011	Structural Steel (Round Bar, SS400)	kg	246.60	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	0.00	3,375.98	0.00	3,763.12	1,612.76	5,375.98	
W02701	Steel Gas Pipe, ø25	m	52.00	0.0%	100.0%	0.0%	80.0%	40.0%	117.00	0.00	6,084.00	0.00	3,650.40	2,433.60	6,084.00	
	Miscellaneous	LS	1.00	0.0%	0.0%	100.0%	50.0%	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0%
	Total									6,924.91	28,754.40	2,496.97	19,013.56	19,162.72	41,230.39	
	Components (%)									16.8%	89.7%	6.7%	46.1%	46.5%	100.0%	
	Unit Rate	m2								69.20	287.33	24.95	190.00	191.49	412.00	

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

W0872 Guardrail Type 8, furnish

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	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	30.02	0.0%	100.0%	0.0%	70.0%	30.0%	7.83	0.06	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	0.06	58.10	0.00	39.27	15.83	58.10	
R0901-025	Welding Machine 250A	dav	0.16	0.0%	0.0%	60.2%	58.6%	41.4%	586.00	0.00	37.44	56.64	0.00	38.96	94.08	
R1001-100	Generator 51-100 kW	dav	0.16	0.0%	0.0%	46.8%	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									520.84	4,329.91	808.87	3,285.58	2,374.76	5,659.32		
Components (%)									9.2%	76.5%	14.3%	58.1%	41.9%	100.0%		
Unit Rate									65.03	540.92	101.05	410.45	296.55	707.00		

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

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks	
				Component (%)						Component (PP)						
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local		Total (PP)
L002	Foreman	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	266.02	0.00	0.00	0.00	266.02	266.02	
L009	Welder	md	0.47	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	235.00	0.00	0.00	0.00	235.00	235.00	
L010	Painter	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	440.00	418.00	0.00	0.00	0.00	418.00	418.00	
L019	Skilled Labor	md	1.42	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	572.26	0.00	0.00	0.00	572.26	572.26	
M02031	Steel Pipe	kg	233.70	0.0%	100.0%	0.0%	70.0%	30.0%	23.90	0.00	5,285.43	0.00	3,909.80	1,675.63	5,285.43	Loss 3.0%
M02014	Structural Steel (Sheets, 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	660.34	0.00	462.38	198.18	660.34	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	630.74	0.00	447.12	191.62	630.74	Loss 3.0%
M02061	Chain Link Wire Net	m2	86.49	0.0%	100.0%	0.0%	70.0%	30.0%	188.00	0.00	14,530.32	0.00	10,171.22	4,359.10	14,530.32	Loss 3.0%
R0901-025	Welding Machine 250A	dav	0.47	0.0%	0.0%	39.8%	60.2%	58.6%	41.4%	586.00	0.00	109.99	166.37	161.91	276.36	
R1001-100	Generator 51-100 kW	dav	0.47	0.0%	0.0%	46.2%	53.4%	59.3%	40.7%	2,690.00	0.00	389.16	475.14	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	35,800.43	4,661.76	24,893.98	16,492.10	41,386.05		
Components (%)									7.1%	81.7%	11.3%	60.2%	39.8%	100.0%		
Unit Rate									61.89	713.44	98.67	628.92	349.08	876.00		

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

W0911 Digging Out Tree, Low Tree H<=1.5m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	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
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									18.60	0.00	0.00	0.00	18.60	18.60	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	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
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									35.70	0.00	0.00	0.00	35.70	35.70	

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
L002	Foreman	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
Total									6,303.10	0.00	0.00	0.00	6,303.10	6,303.10	
Components (%)									100.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
Unit Rate									63.00	0.00	0.00	0.00	63.00	63.00	

W0921 Tree Haulage, Low Tree H<=1.5m

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	5.21	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	313.69	448.47	1,561.50	1,138.40	1,185.26	2,323.66
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total									446.00	313.69	448.47	1,561.50	1,138.40	1,185.26	2,323.66
Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
Unit Rate									3.13	4.48	15.99	11.37	11.53	23.20	

T = (A+N*2+L)/N = 0.05 hr/each
 N: Loading capacity = 50.00 each
 L: Haulage Distance = 1.30 km
 A: Loading Time = 0.05 hr/each
 V: Traveling Speed = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	10.23	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	615.95	880.58	3,068.05	2,255.29	2,327.29	4,582.98
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total									446.00	615.95	880.58	3,068.05	2,255.29	2,327.29	4,582.98
Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
Unit Rate									8.16	8.80	30.64	22.34	23.26	45.60	

T = (A+N*2+L)/N = 0.10 hr/each
 N: Loading capacity = 45.00 each
 L: Haulage Distance = 1.30 km
 A: Loading Time = 0.10 hr/each
 V: Traveling Speed = 25.00 km/hr

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

Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local		Labor	Material	Equipment	Foreign	Local	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	17.52	13.5%	19.3%	67.2%	49.0%	51.0%	446.00	1,054.88	1,508.09	5,250.95	3,828.18	3,985.74	7,813.92
	Miscellaneous	LS	1.00							0.00	0.00	0.00	0.00	0.00	0.00
Total									446.00	1,054.88	1,508.09	5,250.95	3,828.18	3,985.74	7,813.92
Components (%)									13.5%	19.3%	67.2%	49.0%	51.0%	100.0%	
Unit Rate									10.34	15.07	52.48	38.28	39.84	78.10	

T = (A+N*2+L)/N = 0.18 hr/each
 N: Loading capacity = 20.00 each
 L: Haulage Distance = 1.30 km
 A: Loading Time = 0.17 hr/each
 V: Traveling Speed = 25.00 km/hr

#0932 Tree Planting, Medium Tree 1.5w<H<=3.0m

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#0933 Tree Planting, High Tree (young tree) 1.5w<H<=3.0m

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#0951 Precast Curbstones for Planter Square, Furnish

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#0952 Precast Curbstone for Planter Square, Laying

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#0956 Treading Prevention Board for Planter Square, Furnish

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#0957 Treading Prevention Board for Planter Square, Laying

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#1001 Underground Cable Duct

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#1001 Electric Cable Laying

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

#1101 Traffic Signal Post Type A (Mast Arm) H=6.7m, Furnished

Table with 11 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Amount, and Remarks. Includes sub-columns for Component (%), Total (PP), and Amount.

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.30	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	
W02031	Steel Pipe	ke	352.49	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	5,422.51	0.00	5,897.16	2,527.35	8,424.51	
W02015	Structural Steel (Plates, SS400)	ke	37.44	0.0%	100.0%	0.0%	0.0%	70.0%	20.20	0.00	1,150.29	0.00	812.20	348.09	1,160.29	
W02011	Structural Steel (Round Bar, SS400)	ke	8.51	0.0%	100.0%	0.0%	0.0%	70.0%	21.80	0.00	185.52	0.00	129.88	55.66	185.52	
R0901-025	Welding Machine 250A	dav	1.20	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.48	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	39.58	63.91	308.83	209.44	202.88	412.32	
Miscellaneous		LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		98.86	2,224.39	2,619.83	2,718.70	2,224.39	4,943.08	
Total										1,512.74	14,553.94	3,353.33	12,708.85	8,711.17	21,420.02	
Components (%)										7.1%	67.9%	25.0%	59.3%	40.7%	100.0%	
Unit Rate	each									1,511.33	14,340.34	3,348.33	12,696.97	8,703.02	21,420.00	

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

W1103 Traffic Signal Posts Type B @ 114.3mm x 4.2m, Furnished

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
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	
W02031	Steel Pipe	ke	55.97	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	1,337.88	0.00	936.58	401.30	1,337.88	
W02015	Structural Steel (Plates, SS400)	ke	21.00	0.0%	100.0%	0.0%	0.0%	70.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	
W02011	Structural Steel (Round Bar, SS400)	ke	5.36	0.0%	100.0%	0.0%	0.0%	70.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.10	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	8.25	13.31	64.34	43.83	42.27	85.90	
Miscellaneous		LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		43.56	980.02	1,154.25	1,197.81	980.02	2,177.83	
Total										1,148.80	4,990.51	3,296.14	5,056.21	4,372.96	9,437.26	
Components (%)										12.8%	52.9%	34.9%	55.7%	46.3%	100.0%	
Unit Rate	each									1,148.94	4,991.96	3,299.10	5,066.68	4,373.32	9,440.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
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	
W02031	Steel Pipe	ke	45.26	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	1,081.71	0.00	757.20	324.51	1,081.71	
W02015	Structural Steel (Plates, SS400)	ke	21.00	0.0%	100.0%	0.0%	0.0%	70.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	
W02011	Structural Steel (Round Bar, SS400)	ke	5.36	0.0%	100.0%	0.0%	0.0%	70.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.08	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	6.80	10.65	51.47	34.91	33.61	68.72	
Miscellaneous		LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.92	943.15	1,110.82	1,152.74	943.15	2,095.86	
Total										1,145.31	4,695.00	3,241.85	4,832.23	4,249.93	9,052.16	
Components (%)										12.6%	51.7%	35.7%	55.2%	46.8%	100.0%	
Unit Rate	each									1,145.04	4,693.88	3,241.07	4,831.08	4,248.92	9,080.00	

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

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

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
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	
W02031	Steel Pipe	ke	40.01	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	956.24	0.00	689.37	286.87	956.24	
W02015	Structural Steel (Plates, SS400)	ke	21.00	0.0%	100.0%	0.0%	0.0%	70.0%	20.20	0.00	424.20	0.00	296.94	127.26	424.20	
W02011	Structural Steel (Round Bar, SS400)	ke	5.36	0.0%	100.0%	0.0%	0.0%	70.0%	21.80	0.00	116.85	0.00	81.80	35.06	116.85	
R0901-025	Welding Machine 250A	dav	1.00	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.00	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	1,884.42	1,725.58	2,164.17	1,445.83	3,610.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.08	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	6.80	10.65	51.47	34.91	33.61	68.72	
Miscellaneous		LS	1.00	2.0%	45.0%	53.0%	55.0%	45.0%		41.92	943.15	1,110.82	1,152.74	943.15	2,095.86	
Total										1,144.56	4,652.59	3,221.90	4,725.70	4,195.95	8,919.05	
Components (%)										12.8%	51.0%	36.1%	53.0%	47.0%	100.0%	
Unit Rate	each									1,144.68	4,553.08	3,222.24	4,724.20	4,195.80	8,920.00	

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

W1201 Street Lighting Pole (single lamp), furnished

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local	Total (PP)	
L002	Foreman	md	0.20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113.20	0.00	0.00	0.00	113.20	113.20	
L009	Welder	md	1.20	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	600.00	0.00	0.00	0.00	600.00	600.00	
L019	Skilled Labor	md	1.50	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	604.50	0.00	0.00	0.00	604.50	604.50	
W02031	Steel Pipe	ke	231.21	0.0%	100.0%	0.0%	0.0%	70.0%	23.90	0.00	5,525.92	0.00	3,868.14	1,637.78	5,525.92	
W02015	Structural Steel (Plates, SS400)	ke	31.08	0.0%	100.0%	0.0%	0.0%	70.0%	20.20	0.00	627.82	0.00	435.47	188.35	627.82	
W02011	Structural Steel (Round Bar, SS400)	ke	8.51	0.0%	100.0%	0.0%	0.0%	70.0%	21.80	0.00	165.52	0.00	129.88	55.66	165.52	
R0901-025	Welding Machine 250A	dav	1.20	0.0%	39.8%	60.2%	58.0%	41.4%	588.00	0.00	234.02	353.98	344.48	243.52	588.00	
R1001-150	Generator 101-150 kW	dav	1.20	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00	0.00	2,261.30	2,070.70	2,597.01	1,734.99	4,332.00	
R0602-009	Carro truck 9.0-10.0t	hr	0.31	9.6%	15.5%	74.9%	50.8%	49.2%	859.00	25.56	41.27	199.45	135.26	131.03	266.29	
Miscellaneous		LS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		385.30	1,155.89	2,311.79	1,925.49	1,925.49	3,852.98	
Total					</											

W2001 Heavy Equipment Assembly & Disassembly

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
R0402-015	Skilled Labor	md	43.15	100.0%	0.0%	0.0%	0.0%	0.0%	403.00	17,389.45	0.00	0.00	0.00	17,389.45	17,389.45	
R0402-020	Truck Crane, Hydraulic 11-15t	hr	28.89	8.4%	8.3%	83.3%	50.7%	49.3%	879.00	2,133.12	2,107.73	21,163.46	12,863.03	12,831.28	25,394.31	
R0402-025	Truck Crane, Hydraulic 16-20t	hr	37.23	6.9%	7.7%	85.4%	51.5%	48.5%	1,070.00	2,748.69	3,067.38	34,020.03	20,496.63	19,339.47	39,836.10	
R0402-030	Truck Crane, Hydraulic 21-25t	hr	0.00	5.5%	6.8%	87.7%	52.0%	49.0%	1,333.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0402-035	Truck Crane, Hydraulic 26-30t	hr	0.00	5.0%	7.3%	87.7%	52.2%	47.9%	1,472.00	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	1,652.40	1,852.40	1,817.64	1,487.15	3,304.79	4.0%
Total																
Components (%)																
Unit Rate																

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

Equipment	Specification	No.	Wk (t)	Labor (day)	Required Days of Truck Crane for Assembly & Disassembly					Wk (t)	Wb (t)
					11-15t	16-20t	21-25t	26-30t	31-35t		
Bulldozer	15t	0	14.60	0	0.00					14.60	0.00
	21t	1	21.9	1.76	1.14					20.56	1.34
Labor = 0.0797Wk + 0.01											
Crane operation days = 0.0322Wk + 0.43											
Remaining Part Weight Wz = 0.4295Wk + 11.13											
Crawler Crane	22.5t	0	26.6	0	0.00					20.77	5.83
	25-27t	0	27.8	0	0.00					20.93	6.87
	35-37t	4	36.2	30.07	6.52					22.09	14.11
	40t	0	41.1	0	0.00				0.00	22.77	18.33
	50t	0	49.8	0	0.00				0.00	23.97	25.83
	60t	0	65.6	0	0.00				0.00	26.15	39.45
Remaining Part Weight Wz = 0.2063Wk + 0.05											
Crane operation days = 0.0218Wk + 0.84											
Remaining Part Weight Wz = 0.1379Wk + 17.10											
All Casing Excavator	φ1200max	2	34.0	11.32	1.90					22.36	1.64
	φ1500max	2	39.9	2.02	2.02					24.89	15.01
	φ2000max	0	49.0	0	0.00					26.34	22.66
Labor = 0.1163Wk + 2.82											
Crane operation days = 0.0376Wk + 0.66											
Remaining Part Weight Wz = 0.1589Wk + 18.55											
Total											
Operation hours per day											
Remaining Part Weight Wb = Wk - Wz											

W2002 Transportation of Disassembled Equipment

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
R0604-020	Trailer 20t	hr	0.00	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	0.00	0.00	0.00	0.00	0.00	0.00	
R0604-045	Trailer 45t	hr	70.14	2.3%	8.2%	89.5%	53.9%	46.1%	2,700.00	4,355.69	15,529.00	169,493.31	102,123.26	87,254.74	189,378.00	
R0602-009	Cargo truck 9.0-10.0t	hr	110.22	9.6%	15.6%	74.9%	50.8%	49.2%	859.00	9,089.18	14,675.24	70,914.58	48,091.61	46,587.37	94,678.98	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total																
Components (%)																
Unit Rate																

Equipment	No.	Wz (t)	Wb (t)	n-Wb	Trips of Trailer 20t	Cargo Truck 9.0-10.0t	Travel hour/trip = a + 2·L/V
Bulldozer	15t	0	14.60	0.00	0	0	10.02 hr
	21t	1	20.56	1.34	0	1	
Crawler Crane	22.5~27t	0	20.93	6.87	0	0	a: Loading Time = 0.50 hr
	35~37t	4	22.09	14.11	56.44	4	L: Travel Distance = 119.00 km
	40t	0	22.77	18.33	0	0	V: Travel Speed = 25.00 km/hr
	50t	0	23.97	25.83	0	0	
	60t	0	26.15	39.45	0	0	
All Casing Excavator	φ1200max	2	22.36	1.64	2	2	
	φ1500max	2	24.89	15.01	30.02	2	
	φ2000max	0	26.34	22.66	0	0	
Total Trips					91.68	7	11 (= Σn-Wb/9.5/0.85)

W2003 Other Equipment & Material Haulage

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
R0604-020	Trailer 20t	hr	10.02	3.8%	10.7%	85.5%	53.3%	46.7%	1,670.00	635.87	1,790.47	14,307.06	8,919.94	7,813.46	16,733.40	
R0602-009	Cargo truck 9.0-10.0t	hr	200.40	9.6%	15.6%	74.9%	50.8%	49.2%	859.00	16,525.79	26,682.26	129,935.55	87,439.29	84,704.31	172,143.60	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	944.39	944.39	1,038.82	849.95	1,888.77	1.0%
Total																
Components (%)																
Unit Rate																

Number of Trips
 Trailer 20t = 1 trip
 Cargo truck 9.0-10.0t = 20 trip
 Travel hour/trip = a + 2·L/V = 10.02 hr
 a: Loading Time = 0.50 hr
 L: Travel Distance = 119.00 km
 V: Travel Speed = 25.00 km/hr

W2004 Establishment of Temporary Site Office & Yard

Unit: 1.00 LS

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
	Temporary Site Office/Yard	m2	5,200.00	10.0%	50.0%	40.0%	45.0%	55.0%	220.00	114,400.00	572,000.00	457,600.00	514,800.00	629,200.00	1,144,000.00	
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total																
Components (%)																
Unit Rate																

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

Unit: 100.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
W0101	Excavation, Bulldozer 21t	m2	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	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total																
Components (%)																
Unit Rate																

Excavation depth = 0.100

W3002 150mm Thick Concrete Hollow Block Wall

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	
W12012	Concrete Hollow Block (load bearing) 6"8"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	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	13.89	785.34	38.17	486.19	351.01	837.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	16.37	16.37	18.00	14.73	32.73	1.0%
Total																
Components (%)																
Unit Rate																

W3002a 100mm Thick Concrete Hollow Block Wall

Unit: 10.00 m2

Item No.	Description	Unit	Quantity	Unit Rate						Total (PP)	Amount					Remarks
				Component (%)							Component (PP)					
				Lab.	Mat.	Equip.	For.	Local	Labor		Material	Equipment	Foreign	Local		
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	
W12011	Concrete Hollow Block (load bearing) 4"8"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	1.6%	93.8%	4.6%	58.1%	41.9%	1,820.00	13.89	785.34	38.17	486.19	351.01	837.20	Loss 2.0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55.0%	45.0%		0.00	12.07	12.07	13.58	10.98	25.65	1.0%
Total																
Components (%)																
Unit Rate																

W3003 Structural Steel Fabrication and Erection for Engineers Office and Living Quarter

Unit: 1.00 t

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L002, L009, L019, W02014, etc.

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

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L002, L019, W12112, R0402-025, R0604-020.

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

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L002, L009, L019, W12112, W12111, W02014, M12211, R0501-025, R1001-100, R0402-025.

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

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L002, L009, L019, W12111, W12112, W02014, M12211, R0501-025, R1001-100, R0402-025.

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

W3007 Plain Cement Floor Finish

Unit: 100.00 m2

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L007, L020, W0221.

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

W3008 Plain Cement Floor Finish with non skin cement with groove lines

Unit: 100.00 m2

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L007, L020, W0221.

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

W3009 Unglazed Tile Finish (8" x 8")

Unit: 100.00 m2

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L007, L020, W12051, W0221.

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

W3010 Gypsum Board Ceiling

Unit: 100.00 m2

Table with 15 columns: Item No., Description, Unit, Quantity, Component (%), Unit Rate, Total (PP), Amount (Component (PP)), Total (PP), Remarks. Includes items L019, L020, M12221, W02014, M12211.

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

W3504 Relocation of Sewer Pipe										Unit: 10.00 m					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
W0106	Excavation, Backhoe 0.6m ³ + Manpower	m ³	22.87	24.6%	6.6%	68.8%	41.7%	58.3%	59.50	334.30	90.19	936.28	567.77	791.00	1,360.77
W0133	Backfill C	m ³	22.87	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	378.70	392.35	2,545.10	1,638.26	1,677.89	3,316.15
W0105	Excavation, Backhoe 0.6m ³	m ³	22.87	4.4%	8.4%	87.2%	52.9%	47.1%	40.90	41.16	78.57	815.85	494.62	440.78	935.39
W0203	Concrete (Class A, 21MPa, max. size 38mm)	m ³	5.02	2.4%	82.3%	15.3%	58.9%	43.1%	1,370.00	186.57	6,489.57	1,205.27	4,484.23	3,397.17	7,881.40
W0235	Concrete Pouring by Manpower for small structures	m ³	4.92	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	1,080.47	2.16	19.45	11.89	1,090.19	1,102.09
W0236	Concrete Curbing (inlain concrete)	m ³	4.92	70.9%	8.7%	20.4%	16.0%	84.0%	8.85	30.88	3.80	8.96	6.96	36.58	43.54
W0182	Selected Sand Fill	m ³	8.86	34.0%	15.2%	50.7%	33.1%	66.9%	278.00	832.55	371.85	1,240.99	608.64	1,828.72	2,446.39
W0133	Backfill C	m ³	4.35	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)	m ³	18.34	8.1%	14.8%	77.1%	51.3%	48.5%	93.00	138.92	251.63	1,315.07	877.95	827.57	1,705.52
W0332	Precast Reinforced Concrete Pipe (Extra Strength 22MPa), fabrication ø610	m	10.00	10.2%	68.8%	20.9%	53.6%	46.4%	1,100.00	1,125.50	7,572.79	2,301.70	3,900.78	5,099.22	11,000.00
W0342	Precast Concrete Pipe Laying ø610	m	10.00	45.6%	8.2%	46.2%	29.7%	70.3%	244.00	1,111.30	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	0.00
Total									5,335.86	15,531.49	12,019.80	15,840.09	17,047.06	32,887.15	
Components (%)									16.2%	47.2%	36.3%	48.2%	51.9%	100.0%	
Unit Rate									533.59	1,553.15	1,202.45	1,584.01	1,705.27	3,290.00	

W3511 Repair & Maintenance of Existing Access Road										Unit: 100.00 m ²					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
L020	Unskilled Labor	md	3.00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0.00	0.00	942.00	942.00
W0122	Crushed Aggregate, transported	m ³	19.80	9.1%	15.5%	75.4%	47.0%	55.0%	258.00	463.48	793.40	3,851.32	2,402.74	2,708.66	5,108.40
R0307-000	Plate Connector	day	0.85	0.0%	17.7%	82.3%	56.2%	43.8%	780.00	0.00	117.35	545.65	372.62	290.38	863.00
	Miscellaneous	LS	1.00	20.0%	40.0%	40.0%	40.0%	60.0%	0.00	161.12	322.24	322.24	322.24	483.36	805.61
Total									1,566.61	1,233.00	4,719.41	3,097.61	4,421.40	7,519.01	
Components (%)									20.8%	16.4%	62.3%	41.2%	58.8%	100.0%	
Unit Rate									15.67	12.33	47.20	30.98	44.22	75.20	

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

W4101 Environmental Compliance										Unit: 1.00 km					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
L002	Foreman	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	586.00	586.00	0.00	0.00	0.00	586.00	586.00
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%	0.00	383.19	766.38	766.38	766.38	1,149.58	1,915.96
Total									49,036.19	47,911.38	766.38	766.38	96,947.40	97,713.96	
Components (%)									50.2%	49.0%	0.8%	0.8%	99.2%	100.0%	
Unit Rate									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					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
	Health and safety Requirements	day	1.00	10.0%	55.0%	35.0%	40.0%	60.0%	674.00	67.40	370.70	235.90	269.60	404.40	674.00
	Miscellaneous	LS	1.00						0.00	0.00	0.00	0.00	0.00	0.00	
Total									67.40	370.70	235.90	269.60	404.40	674.00	
Components (%)									10.0%	55.0%	35.0%	40.0%	60.0%	100.0%	
Unit Rate									67.40	370.70	235.90	269.60	404.40	674.00	

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

W4121 Overseas Development Assistance (ODA) Recognition Plate										Unit: 1.00 each					
Item No.	Description	Unit	Quantity	Unit Rate					Total (PP)	Amount					Remarks
				Component (%)						Component (PP)					
				Lab.	Mat.	Equip.	For.	Local							
W0106	Excavation, Backhoe 0.6m ³ + Manpower	m ³	4.70	24.6%	6.6%	68.8%	41.7%	58.3%	89.50	68.70	18.54	192.41	116.68	162.97	279.63
W0111	Disposal of Surplus Soil (backhoe loading)	m ³	0.60	8.1%	14.8%	77.1%	51.3%	48.5%	93.00	4.54	8.23	43.02	28.72	27.08	58.80
W0133	Backfill C	m ³	4.10	11.4%	11.8%	76.7%	49.4%	50.6%	145.00	67.89	70.34	456.27	293.70	300.80	594.50
W0203	Concrete (Class A, 21MPa, max. size 38mm)	m ³	0.61	2.4%	82.3%	15.3%	58.9%	43.1%	1,370.00	22.67	788.57	146.46	544.90	412.80	957.70
W0235	Concrete Pouring by Manpower for small structures	m ³	0.60	98.0%	0.2%	1.8%	1.1%	98.9%	224.00	131.76	0.26	2.37	1.45	132.93	134.40
W0236	Concrete Curbing (inlain concrete)	m ³	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 (inlain concrete H4m)	m ²	4.80	58.9%	40.4%	0.8%	2.9%	97.1%	222.00	827.21	430.03	6.35	31.32	1,034.23	1,065.60
W07201	Traffic Sign Board (aluminum)	m ²	5.94	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00	0.00	81,972.00	0.00	53,281.80	28,690.20	81,972.00
W08708	Steel Gas Pipe, ø125	m	11.20	0.0%	100.0%	0.0%	60.0%	40.0%	503.00	0.00	5,633.60	0.00	3,380.16	2,253.44	5,633.60
L002	Foreman	md	0.11	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	62.26	0.00	0.00	0.00	62.26	62.26
L020	Unskilled Labor	md	0.27	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%	0.00	343.26	1,090.52	1,090.52	1,090.16	1,363.16	2,726.31
Total									1,850.25	90,012.56	1,940.50	59,042.73	34,560.53	93,503.91	
Components (%)									1.8%	96.2%	2.1%	63.1%	36.9%	100.0%	
Unit Rate									1,850.19	90,009.36	1,940.43	59,040.65	34,559.35	93,500.00	

Miscellaneous covers the costs for fixtures, paints, etc.