

7. Summary of Basic Costs

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

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
1. Labor Cost										
L002	Foreman	md	100.0%	0.0%	0.0%	0.0%	100.0%	576.00	cost index 1.80	
L003	Operator	md	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	1.34	
L004	Driver	md	100.0%	0.0%	0.0%	0.0%	100.0%	375.00	1.17	
L005	Carpenter	md	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	1.41	
L006	Re-Bar Worker	md	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1.28	
L007	Masonry	md	100.0%	0.0%	0.0%	0.0%	100.0%	471.00	1.47	
L008	Blaster	md	100.0%	0.0%	0.0%	0.0%	100.0%	531.00	1.66	
L009	Welder	md	100.0%	0.0%	0.0%	0.0%	100.0%	509.00	1.59	
L010	Painter	md	100.0%	0.0%	0.0%	0.0%	100.0%	448.00	1.40	
L011	Mechanic	md	100.0%	0.0%	0.0%	0.0%	100.0%	451.00	1.41	
L012	Electrician	md	100.0%	0.0%	0.0%	0.0%	100.0%	429.00	1.34	
L019	Skilled Labor	md	100.0%	0.0%	0.0%	0.0%	100.0%	410.00	1.28	
L020	Unskilled Labor	md	100.0%	0.0%	0.0%	0.0%	100.0%	320.00	1.00	
2. Material Cost										
2.01 Fuel										
M01005	Diesel Oil	ltr	0.0%	100.0%	0.0%	65.0%	35.0%	12.10		
M01006	Gasoline	ltr	0.0%	100.0%	0.0%	65.0%	35.0%	14.20		
M01007	Heavy Oil	ltr	0.0%	100.0%	0.0%	65.0%	35.0%	9.77		
M01008	Lubricant	ltr	0.0%	100.0%	0.0%	65.0%	35.0%	43.10		
M01009	Electric Supply	kWh	0.0%	100.0%	0.0%	50.0%	50.0%	4.00		
M01010	Water Supply	m3	0.0%	100.0%	0.0%	10.0%	90.0%	66.20		
M01015	Telecommunication Fare	min	0.0%	100.0%	0.0%	45.0%	55.0%	1.00		
M01020	Propane Gas	kg	0.0%	100.0%	0.0%	50.0%	50.0%	32.60		
2.02 Steel										
M02001	Reinforcing Bars, Grade 40	kg	0.0%	100.0%	0.0%	65.0%	35.0%	16.00		
M02002	Reinforcing Bars, Grade 60	kg	0.0%	100.0%	0.0%	65.0%	35.0%	17.00		
M02011	Structural Steel (Round Bar, SS400)	kg	0.0%	100.0%	0.0%	70.0%	30.0%	21.80		
M02012	Structural Steel (Flat Bar, SS400)	kg	0.0%	100.0%	0.0%	70.0%	30.0%	22.70		
M02013	Structural Steel (H-Shape, SS400)	kg	0.0%	100.0%	0.0%	70.0%	30.0%	17.60		
M02014	Structural Steel (Shapes, SS400)	kg	0.0%	100.0%	0.0%	70.0%	30.0%	17.60		
M02015	Structural Steel (Plates, SS400)	kg	0.0%	100.0%	0.0%	70.0%	30.0%	20.20		
M02016	Structural Steel (Plates SMA400W)	kg	0.0%	100.0%	0.0%	75.0%	25.0%	39.00		
M02017	Structural Steel (Plates SMA490W)	kg	0.0%	100.0%	0.0%	75.0%	25.0%	45.00		
M02018	Structural Steel (Plates SMA570W)	kg	0.0%	100.0%	0.0%	75.0%	25.0%	62.50		
M02031	Steel Pipe	kg	0.0%	100.0%	0.0%	70.0%	30.0%	23.90		
M02041	Steel Sheet Pile	kg	0.0%	100.0%	0.0%	70.0%	30.0%	32.10		
M02061	Chain Link Wire Net	m2	0.0%	100.0%	0.0%	70.0%	30.0%	168.00		
M02062	Barbed Wire	m	0.0%	100.0%	0.0%	35.0%	65.0%	2.50		
M02071	High Tension Bolt M16	each	0.0%	100.0%	0.0%	70.0%	30.0%	18.50		
M02072	High Tension Bolt M20	each	0.0%	100.0%	0.0%	70.0%	30.0%	29.20		
M02073	High Tension Bolt M22	each	0.0%	100.0%	0.0%	70.0%	30.0%	42.20		
M02074	High Tension Bolt M24	each	0.0%	100.0%	0.0%	70.0%	30.0%	62.70		
M02301	Bolt M12x40	each	0.0%	100.0%	0.0%	70.0%	30.0%	4.18		
M02351	Bolt M16x50	each	0.0%	100.0%	0.0%	70.0%	30.0%	7.83		
M02359	Bolt M16x150	each	0.0%	100.0%	0.0%	70.0%	30.0%	18.70		
M02410	Bolt M20x140	each	0.0%	100.0%	0.0%	70.0%	30.0%	28.20		
M02501	Brass Plate	kg	0.0%	100.0%	0.0%	70.0%	30.0%	228.00		
M02511	Stainless Plate	kg	0.0%	100.0%	0.0%	70.0%	30.0%	136.00		
2.03 Aggregate, Concrete										
M03001	Quarry Royalty (Borrow Soil)	m3	0.0%	100.0%	0.0%	0.0%	100.0%	15.00		
M03002	Quarry Royalty (Sand, Pebbles)	m3	0.0%	100.0%	0.0%	0.0%	100.0%	15.00		
M03003	Quarry Royalty (Aggregate)	m3	0.0%	100.0%	0.0%	0.0%	100.0%	15.00		
M03004	Quarry Royalty (Gravel/Stone)	m3	0.0%	100.0%	0.0%	0.0%	100.0%	15.00		
M03011	Portland Cement, ordinary	t	0.0%	100.0%	0.0%	60.0%	40.0%	3,375.00		
M03401	Admixture	kg	0.0%	100.0%	0.0%	70.0%	30.0%	118.00		
M03402	Non-shrink Admixture	kg	0.0%	100.0%	0.0%	70.0%	30.0%	392.00		
2.04 Wood										
M04001	Lumber	m3	0.0%	100.0%	0.0%	10.0%	90.0%	14,800.00		
M04011	Plywood, 6x1200x2400	m2	0.0%	100.0%	0.0%	10.0%	90.0%	80.00		
2.05 Temporary Material										
M05001	Formwork Lumber, use 4 times	m3	0.0%	100.0%	0.0%	5.0%	95.0%	3,700.00		
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	0.0%	100.0%	0.0%	5.0%	95.0%	27.00		
M05031	Temporary Sheet Pile Depreciation	t·d	0.0%	100.0%	0.0%	50.0%	50.0%	33.30		
M05041	Temporary Steel Shapes Depreciation	t·d	0.0%	100.0%	0.0%	50.0%	50.0%	31.30		
M05051	Temporary Deck Plate Depreciation	m2·d	0.0%	100.0%	0.0%	50.0%	50.0%	11.10		
M05055	Temporary Pipe Railing Depreciation	m·d	0.0%	100.0%	0.0%	50.0%	50.0%	1.33		
M05061	Temporary Frame Support (Portal 914x1700)	day	0.0%	100.0%	0.0%	50.0%	50.0%	1.53		
M05062	Temporary Frame Support (Portal 1219x1700)	day	0.0%	100.0%	0.0%	50.0%	50.0%	1.65		
M05063	Temporary Frame Support (Portal 1219x1829)	day	0.0%	100.0%	0.0%	50.0%	50.0%	2.31		
M05064	Temporary Frame Support (bracing 914 x 1219)	day	0.0%	100.0%	0.0%	50.0%	50.0%	0.59		
M05065	Temporary Frame Support (bracing 1219 x 1219)	day	0.0%	100.0%	0.0%	50.0%	50.0%	0.59		

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	0.0%	100.0%	0.0%	50.0%	50.0%	0.59		
2.06 Paint & Adhesive										
M06001	Etching Primer for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	274.00		
M06003	Zinc Rich Primer for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	374.00		
M06011	Rustproof Lead Paint for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	209.00		
M06020	Silicon Alkyd Resin Paint for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	250.00		
M06021	Phenol Resin Paint for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	272.00		
M06022	Epoxy Resin Paint for Steel	kg	0.0%	100.0%	0.0%	65.0%	35.0%	496.00		
M06031	Emulsion Paint	kg	0.0%	100.0%	0.0%	65.0%	35.0%	79.30		
M06032	Polyvinyl Enamel Paint	kg	0.0%	100.0%	0.0%	65.0%	35.0%	79.30		
M06041	Road marking paint (White, solution type with glass beads 15~18%)	kg	0.0%	100.0%	0.0%	65.0%	35.0%	62.70		
M06042	Road marking paint (Yellow, solution type with glass beads 15~18%)	kg	0.0%	100.0%	0.0%	65.0%	35.0%	64.60		
2.07 Road Material										
M07011	Prime Coat	t	0.0%	100.0%	0.0%	65.0%	35.0%	22,635.00		
M07012	Tack Coat	t	0.0%	100.0%	0.0%	65.0%	35.0%	22,635.00		
M07021	Asphalt Mixture	t	0.0%	100.0%	0.0%	65.0%	35.0%	2,500.00		
M07051	Rubberized Asphalt Agent	kg	0.0%	100.0%	0.0%	65.0%	35.0%	24.40		
M07052	Rubberized Asphalt	kg	0.0%	100.0%	0.0%	65.0%	35.0%	18.70		
M07101	Joint Filler (bituminous t=10mm)	m2	0.0%	100.0%	0.0%	60.0%	40.0%	286.00		
M07102	Joint Filler (bituminous t=12mm)	m2	0.0%	100.0%	0.0%	60.0%	40.0%	343.00		
M07103	Joint Filler (bituminous t=18mm)	m2	0.0%	100.0%	0.0%	60.0%	40.0%	514.00		
M07104	Joint Filler (bituminous t=20mm)	m2	0.0%	100.0%	0.0%	60.0%	40.0%	671.00		
M07107	Joint Filler (rubber foam t=20mm)	m2	0.0%	100.0%	0.0%	60.0%	40.0%	1,500.00		
M07111	Joint Sealant (10x10mm)	m	0.0%	100.0%	0.0%	60.0%	40.0%	62.70		
M07112	Joint Sealant (12x12mm)	m	0.0%	100.0%	0.0%	60.0%	40.0%	75.20		
M07113	Joint Sealant (18x18mm)	m	0.0%	100.0%	0.0%	60.0%	40.0%	103.00		
M07114	Joint Sealant (20x20mm)	m	0.0%	100.0%	0.0%	60.0%	40.0%	115.00		
M07117	Joint Sealant (liquid type)	kg	0.0%	100.0%	0.0%	60.0%	40.0%	96.20		
M07201	Traffic Sign Board (aluminum)	m2	0.0%	100.0%	0.0%	65.0%	35.0%	13,800.00		
M07271	Pedestrian Signal Lights (2 lamps)	set	0.0%	100.0%	0.0%	55.0%	45.0%	47,400.00		
M07272	Traffic Signal Lights (3 lamps)	set	0.0%	100.0%	0.0%	55.0%	45.0%	99,900.00		
M07273	Traffic Signal Lights (6 lamps)	set	0.0%	100.0%	0.0%	55.0%	45.0%	186,000.00		
M07401	Reflectorized Pavement Stud (one side reflective)	each	0.0%	100.0%	0.0%	60.0%	40.0%	717.00		
M07402	Reflectorized Pavement Stud (two sides reflective)	each	0.0%	100.0%	0.0%	60.0%	40.0%	776.00		
M07405	Chatter Bar	each	0.0%	100.0%	0.0%	60.0%	40.0%	1,740.00		
M07501	Delineator, Type A (ground standing type)	each	0.0%	100.0%	0.0%	60.0%	40.0%	1,450.00		
M07502	Delineator, Type B (on concrete)	each	0.0%	100.0%	0.0%	60.0%	40.0%	1,360.00		
M07503	Delineator, Type C (on guardrail)	each	0.0%	100.0%	0.0%	60.0%	40.0%	564.00		
M07601	Road Curve Mirror ϕ 600	each	0.0%	100.0%	0.0%	60.0%	40.0%	11,000.00		
M07701	Removable Traffic Barrier	each	0.0%	100.0%	0.0%	60.0%	60.0%	627.00		
2.08 Water Supply & Drainage Material										
M08301	PVC Pipe, ϕ 40	m	0.0%	100.0%	0.0%	50.0%	50.0%	48.70		
M08302	PVC Pipe, ϕ 50	m	0.0%	100.0%	0.0%	50.0%	50.0%	66.70		
M08303	PVC Pipe, ϕ 65	m	0.0%	100.0%	0.0%	50.0%	50.0%	93.00		
M08304	PVC Pipe, ϕ 75	m	0.0%	100.0%	0.0%	50.0%	50.0%	183.00		
M08310	PVC Pipe, ϕ 100	m	0.0%	100.0%	0.0%	50.0%	50.0%	200.00		
M08315	PVC Pipe, ϕ 150	m	0.0%	100.0%	0.0%	50.0%	50.0%	432.00		
M08320	PVC Pipe, ϕ 200	m	0.0%	100.0%	0.0%	50.0%	50.0%	713.00		
M08700	Steel Gas Pipe, ϕ 20	m	0.0%	100.0%	0.0%	60.0%	40.0%	76.70		
M08701	Steel Gas Pipe, ϕ 25	m	0.0%	100.0%	0.0%	60.0%	40.0%	117.00		
M08702	Steel Gas Pipe, ϕ 32	m	0.0%	100.0%	0.0%	60.0%	40.0%	142.00		
M08703	Steel Gas Pipe, ϕ 40	m	0.0%	100.0%	0.0%	60.0%	40.0%	167.00		
M08704	Steel Gas Pipe, ϕ 50	m	0.0%	100.0%	0.0%	60.0%	40.0%	217.00		
M08705	Steel Gas Pipe, ϕ 65	m	0.0%	100.0%	0.0%	60.0%	40.0%	251.00		
M08706	Steel Gas Pipe, ϕ 80	m	0.0%	100.0%	0.0%	60.0%	40.0%	294.00		
M08707	Steel Gas Pipe, ϕ 100	m	0.0%	100.0%	0.0%	60.0%	40.0%	410.00		
M08708	Steel Gas Pipe, ϕ 125	m	0.0%	100.0%	0.0%	60.0%	40.0%	503.00		
M08709	Steel Gas Pipe, ϕ 150	m	0.0%	100.0%	0.0%	60.0%	40.0%	707.00		
M08710	Steel Gas Pipe, ϕ 200	m	0.0%	100.0%	0.0%	60.0%	40.0%	1,080.00		
2.09 Bridge, River, Marine Material										
M09001	Laminated Elastomeric Bearing Pad (400x300x50mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	11,000.00		
M09002	Laminated Elastomeric Bearing Pad (600x300x50mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	15,800.00		
M09003	Laminated Elastomeric Bearing Pad (600x350x50mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	18,400.00		
M09004	Laminated Elastomeric Bearing Pad (600x700x89mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	66,600.00		
M09005	Laminated Elastomeric Bearing Pad (600x400x50mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	25,300.00		
M09006	Laminated Elastomeric Bearing Pad (450x300x60mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	14,200.00		
M09007	Laminated Elastomeric Bearing Pad (550x300x50mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	14,500.00		
M09008	Laminated Elastomeric Bearing Pad (500x400x60mm)	each	0.0%	100.0%	0.0%	65.0%	35.0%	21,100.00		
M09011	Elastomeric Pad (t=25mm)	m2	0.0%	100.0%	0.0%	65.0%	35.0%	12,800.00		

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			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
M09012	Elastomeric Pad (t=40mm)	m2	0.0%	100.0%	0.0%	65.0%	35.0%	20,500.00		
M09013	Elastomeric Pad (t=50mm)	m2	0.0%	100.0%	0.0%	65.0%	35.0%	25,700.00		
M09104	Bearing Shoe (rubber enclosed type), 250t	each	0.0%	100.0%	0.0%	70.0%	30.0%	291,000.00		
M09106	Bearing Shoe (rubber enclosed type), 650t	each	0.0%	100.0%	0.0%	70.0%	30.0%	764,000.00		
M09108	Bearing Shoe (rubber enclosed type), 650t	each	0.0%	100.0%	0.0%	70.0%	30.0%	764,000.00		
M09197	Expansion Joint, Multiflex 35	m	0.0%	100.0%	0.0%	65.0%	35.0%	21,700.00		
M09198	Expansion Joint, Multiflex 50	m	0.0%	100.0%	0.0%	65.0%	35.0%	39,200.00		
M09199	Expansion Joint, Multiflex 70	m	0.0%	100.0%	0.0%	65.0%	35.0%	56,400.00		
M09200	Expansion Joint, Multiflex 80	m	0.0%	100.0%	0.0%	65.0%	35.0%	64,600.00		
M09201	Expansion Joint, Multiflex 100	m	0.0%	100.0%	0.0%	65.0%	35.0%	74,400.00		
M09202	Expansion Joint, Multiflex 140	m	0.0%	100.0%	0.0%	65.0%	35.0%	93,800.00		
M09203	Expansion Joint, Multiflex 160	m	0.0%	100.0%	0.0%	65.0%	35.0%	107,000.00		
M09204	Expansion Joint, Multiflex 200	m	0.0%	100.0%	0.0%	65.0%	35.0%	122,000.00		
M09205	Expansion Joint, Multiflex 230	m	0.0%	100.0%	0.0%	65.0%	35.0%	141,000.00		
M09206	Expansion Joint, Multiflex 330	m	0.0%	100.0%	0.0%	65.0%	35.0%	250,000.00		
M09305	PC Strand, T12.4	kg	0.0%	100.0%	0.0%	70.0%	30.0%	110.00		
M09306	PC Strand, T12.7	kg	0.0%	100.0%	0.0%	70.0%	30.0%	113.00		
M09307	PC Strand, T15.2	kg	0.0%	100.0%	0.0%	70.0%	30.0%	119.00		
M09313	PC Tendon, φ32	kg	0.0%	100.0%	0.0%	70.0%	30.0%	136.00		
M09322	PC Sheath, φ28	m	0.0%	100.0%	0.0%	65.0%	35.0%	52.20		
M09331	PC Sheath, φ60	m	0.0%	100.0%	0.0%	65.0%	35.0%	115.00		
M09332	PC Sheath, φ65	m	0.0%	100.0%	0.0%	65.0%	35.0%	123.00		
M09333	PC Sheath, φ70	m	0.0%	100.0%	0.0%	65.0%	35.0%	134.00		
M09334	PC Sheath, φ75	m	0.0%	100.0%	0.0%	65.0%	35.0%	150.00		
M09344	PC Anchorage, 110, 130t 7T13M (T)	set	0.0%	100.0%	0.0%	75.0%	25.0%	5,030.00		
M09345	PC Anchorage, 130, 150t 8T13M (T)	set	0.0%	100.0%	0.0%	75.0%	25.0%	5,790.00		
M09346	PC Anchorage 195, 225t 12T13M (T)	set	0.0%	100.0%	0.0%	75.0%	25.0%	8,040.00		
M09348	PC Anchorage 30t 1T15.2 (T)	set	0.0%	100.0%	0.0%	75.0%	25.0%	828.00		
M09354	PC Anchorage φ32 (T)	set	0.0%	100.0%	0.0%	75.0%	25.0%	1,250.00		
M09364	PC Anchorage 110, 130t 7T13E (F)	set	0.0%	100.0%	0.0%	75.0%	25.0%	7,330.00		
M09365	PC Anchorage 130, 150t 8T13E (F)	set	0.0%	100.0%	0.0%	75.0%	25.0%	7,950.00		
M09366	PC Anchorage 195, 225t 12T13E (F)	set	0.0%	100.0%	0.0%	75.0%	25.0%	10,600.00		
M09368	PC Anchorage 30t 1T15.2 (F)	set	0.0%	100.0%	0.0%	75.0%	25.0%	1,070.00		
M09374	PC Anchorage φ32 (F)	set	0.0%	100.0%	0.0%	75.0%	25.0%	1,520.00		
M09602	Gabion Cage 600x1000x2000	each	0.0%	100.0%	0.0%	30.0%	70.0%	710.00		
M09605	Gabion Mat Cage H=300mm	m2	0.0%	100.0%	0.0%	30.0%	70.0%	617.00		
2.10 Common Material										
M10201	Waterproofing sheet	m2	0.0%	100.0%	0.0%	60.0%	40.0%	460.00		
M10202	Filter Cloth	m2	0.0%	100.0%	0.0%	60.0%	40.0%	82.30		
M10211	Waterstop	m	0.0%	100.0%	0.0%	60.0%	40.0%	282.00		
M10301	Styrofoam	m3	0.0%	100.0%	0.0%	60.0%	40.0%	5,180.00		
2.11 Landscaping Material										
M11001	Tree H=0.5m	each	0.0%	100.0%	0.0%	7.0%	93.0%	110.00		
M11002	Tree H=1m	each	0.0%	100.0%	0.0%	7.0%	93.0%	215.00		
M11003	Tree H=1.5m	each	0.0%	100.0%	0.0%	7.0%	93.0%	503.00		
M11004	Tree H=2m	each	0.0%	100.0%	0.0%	7.0%	93.0%	838.00		
M11005	Tree H=2.5m	each	0.0%	100.0%	0.0%	7.0%	93.0%	1,270.00		
M11006	Tree H=3m	each	0.0%	100.0%	0.0%	7.0%	93.0%	2,630.00		
M11111	Sod	m2	0.0%	100.0%	0.0%	7.0%	93.0%	29.40		
2.12 Architectural Material										
M12001	Brick 2"x4"x8" (50x100x200mm)	each	0.0%	100.0%	0.0%	15.0%	85.0%	5.50		
M12011	Concrete Hollow Block (load bearing) 4"x8"x16" (100x200x400mm)	each	0.0%	100.0%	0.0%	25.0%	75.0%	10.00		
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	0.0%	100.0%	0.0%	25.0%	75.0%	12.00		
M12013	Concrete Hollow Block (non load) 4"x8"x16" (100x200x400mm)	each	0.0%	100.0%	0.0%	25.0%	75.0%	6.50		
M12014	Concrete Hollow Block (non load) 6"x8"x16" (150x200x400mm)	each	0.0%	100.0%	0.0%	25.0%	75.0%	7.50		
M12051	Un glazed Tile 200x200mm	each	0.0%	100.0%	0.0%	40.0%	60.0%	21.20		
M12101	Chain Link Fence Fabric	m	0.0%	100.0%	0.0%	50.0%	50.0%	1,460.00		
M12111	Galvanized Iron Sheet, colored	m2	0.0%	100.0%	0.0%	60.0%	40.0%	118.00		
M12112	Corrugated Galvanized Iron Sheet, colored	m2	0.0%	100.0%	0.0%	60.0%	40.0%	122.00		
M12211	Insulation, Grasswool	m2	0.0%	100.0%	0.0%	55.0%	45.0%	57.00		
M12221	Gypsum Board Ceiling	m2	0.0%	100.0%	0.0%	55.0%	45.0%	137.00		
M12251	Steel Door with Steel Panels 900x2100mm	each	0.0%	100.0%	0.0%	45.0%	55.0%	5,530.00		
M12252	Flush Type Hollow Core Door with 6mm thick ordinary plywood 800x2100mm	each	0.0%	100.0%	0.0%	20.0%	80.0%	2,500.00		
M12253	Flush Type Hollow Core Door with 6mm thick marine plywood 600x2100mm	each	0.0%	100.0%	0.0%	20.0%	80.0%	1,870.00		
M12261	Jalousie Window with Steel Blades 2100x1500mm	each	0.0%	100.0%	0.0%	45.0%	55.0%	6,750.00		
M12262	Jalousie Window with Steel Blades 3900x1500mm	each	0.0%	100.0%	0.0%	45.0%	55.0%	12,500.00		
M12263	Jalousie Window with Steel Blades 1400x900	each	0.0%	100.0%	0.0%	45.0%	55.0%	2,640.00		
M12264	Jalousie Window with Steel Blades 820x250	each	0.0%	100.0%	0.0%	45.0%	55.0%	458.00		
M12271	Floor Drain	each	0.0%	100.0%	0.0%	45.0%	55.0%	266.00		
M12272	Urinal	each	0.0%	100.0%	0.0%	45.0%	55.0%	2,310.00		

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
M12273	Toilet Stool	each	0.0%	100.0%	0.0%	55.0%	45.0%	5,110.00		
M12274	Lavatory Wash Basin	each	0.0%	100.0%	0.0%	55.0%	45.0%	2,920.00		
M12275	Shower	each	0.0%	100.0%	0.0%	50.0%	50.0%	2,120.00		
M12276	Shower Drain	each	0.0%	100.0%	0.0%	45.0%	55.0%	343.00		
M12277	Clean Out	each	0.0%	100.0%	0.0%	45.0%	55.0%	319.00		
M12278	Sink (1 basin with table)	each	0.0%	100.0%	0.0%	45.0%	55.0%	6,230.00		
M12279	Kitchen Sink (1 basin + flat with table)	each	0.0%	100.0%	0.0%	45.0%	55.0%	9,010.00		
2.13 Electrical Material										
M13001	Street Lighting Fixture (110~400W)	each	0.0%	100.0%	0.0%	60.0%	40.0%	7,920.00		
M13011	Street Lighting Stabilizer	each	0.0%	100.0%	0.0%	65.0%	35.0%	2,600.00		
M13021	Street Lighting Lamp	each	0.0%	100.0%	0.0%	60.0%	40.0%	1,320.00		
M13051	Electric Cable	m	0.0%	100.0%	0.0%	55.0%	45.0%	62.30		
M13052	Electric Conduit	m	0.0%	100.0%	0.0%	45.0%	55.0%	67.90		
M13061	Lighting Panel for Street Lights	each	0.0%	100.0%	0.0%	55.0%	45.0%	20,300.00		
M13071	Electric Service Meter for Street Lighting	each	0.0%	100.0%	0.0%	65.0%	35.0%	3,800.00		
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	0.0%	100.0%	0.0%	60.0%	40.0%	496.00		
M13141	Ceiling Lamp, SL-18 with Hexless Type, Medium Base Porcelain Receptacle	each	0.0%	100.0%	0.0%	60.0%	40.0%	172.00		
M13151	One-way Wall Switch	each	0.0%	100.0%	0.0%	55.0%	45.0%	30.50		
M13152	2 One-way Wall Switches on one Gang Plate	each	0.0%	100.0%	0.0%	55.0%	45.0%	80.50		
M13153	3 One-way Wall Switches on one Gang Plate	each	0.0%	100.0%	0.0%	55.0%	45.0%	103.00		
M13154	Duplex Convenience Outlet, Grounding Type	each	0.0%	100.0%	0.0%	55.0%	45.0%	80.50		
M13155	Heavy Duty Convenience Outlets, Single Grounding Type	each	0.0%	100.0%	0.0%	55.0%	45.0%	129.00		
M13156	Air Conditioning Outlet Grounding Type with Automatic Circuit Breaker in One Enclosure	each	0.0%	100.0%	0.0%	55.0%	45.0%	694.00		
M13157	Enclosed Automatic Circuit Breaker	each	0.0%	100.0%	0.0%	65.0%	35.0%	8,190.00		
M13158	Distribution Panel Board	each	0.0%	100.0%	0.0%	60.0%	40.0%	12,100.00		
M13159	Pull Box or Junction Box	each	0.0%	100.0%	0.0%	60.0%	40.0%	1,040.00		
M13160	Electric Service Meter	each	0.0%	100.0%	0.0%	65.0%	35.0%	3,610.00		
M13161	Concealed or Embedded Conduit Run	m	0.0%	100.0%	0.0%	50.0%	50.0%	7.52		
M13162	Underground or Underfloor Conduit Run	m	0.0%	100.0%	0.0%	50.0%	50.0%	34.00		
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	0.0%	100.0%	0.0%	60.0%	40.0%	909.00		
M13164	Galvanized Steel Lighting Post H=3.5m	each	0.0%	100.0%	0.0%	60.0%	40.0%	4,670.00		
M13165	Underground or Underfloor Conduit Run	m	0.0%	100.0%	0.0%	60.0%	40.0%	58.40		
2.15 Other Materials										
M15101	Film ASA 400 x 36	each	0.0%	100.0%	0.0%	70.0%	30.0%	169.00		
M15102	Film Development	each	0.0%	100.0%	0.0%	15.0%	85.0%	45.00		
M15103	Picture Prints	each	0.0%	100.0%	0.0%	15.0%	85.0%	6.00		
3. Equipment Operation (Depreciation) Cost										
3.01 Excavation Equipment										
Q0101-015	Bulldozer, 15t	hr	3.3%	9.1%	87.6%	51.6%	48.4%	2,500.00		5.27
Q0101-021	Bulldozer, 21t	hr	1.8%	9.7%	88.6%	53.2%	46.8%	3,580.00		6.58
Q0105-010	Backhoe, hydraulic, crawler, 0.1m3	day	8.7%	5.7%	85.6%	54.0%	46.0%	4,950.00		5.00
Q0105-035	Backhoe, hydraulic, crawler, 0.35m3	hr	6.3%	11.2%	82.6%	55.0%	45.0%	1,220.00		5.47
Q0105-060	Backhoe, hydraulic, crawler, 0.60m3	hr	3.8%	11.5%	84.7%	56.5%	43.5%	2,050.00		5.47
Q0106-004	Clamshell, crawler, 0.3m3	hr	5.2%	6.9%	87.8%	54.8%	45.2%	1,310.00		6.25
Q0106-006	Clamshell, crawler, 0.6m3	hr	2.9%	8.3%	88.8%	56.2%	43.8%	2,330.00		6.25
Q0106-008	Clamshell, crawler, 0.6m3 Deep	hr	2.6%	7.8%	89.5%	56.5%	43.5%	2,470.00		6.58
Q0107-034	Tractor Shovel, wheel, 0.34m3	hr	14.2%	6.0%	79.8%	46.0%	54.0%	664.00		4.50
Q0107-080	Tractor Shovel, wheel, 0.8m3	hr	9.7%	8.2%	82.0%	48.6%	51.4%	968.00		4.50
Q0107-120	Tractor Shovel, wheel, 1.2m3	hr	7.5%	9.4%	83.1%	49.9%	50.1%	1,250.00		4.50
3.02 Demolition Equipment										
Q0201-080	Giant Breaker, hydraulic, 600~800kg + Backhoe, hydraulic, crawler, 0.60m3	hr	2.7%	8.3%	89.0%	58.7%	41.3%	2,850.00	with backhoe	0.00
Q0201-130	Giant Breaker, hydraulic, 1300kg + Backhoe, hydraulic, crawler, 0.60m3	hr	2.3%	7.0%	90.8%	59.7%	40.3%	3,400.00	with backhoe	0.00
Q0202-018	Crawler Drill, 180kg	hr	0.0%	0.0%	100.0%	58.1%	41.9%	6,420.00	Depreciation	5.00
Q0203-100	Concrete Crusher, 56~100t + Backhoe, hydraulic, crawler, 0.60m3	hr	2.2%	6.8%	91.0%	60.8%	39.2%	3,500.00	with backhoe	0.00
Q0204-020	Concrete Breaker, 20kg	day	0.0%	0.0%	100.0%	67.0%	33.0%	63.60	Depreciation	0.00
Q0205-030	Leg Hammer, 30kg	day	0.0%	0.0%	100.0%	66.1%	33.9%	286.00	Depreciation	0.00
Q0206-001	Pick Hammer	day	0.0%	0.0%	100.0%	65.7%	34.3%	36.70	Depreciation	0.00
Q0207-020	Hand Hammer	day	0.0%	0.0%	100.0%	67.0%	33.0%	215.00	Depreciation	0.00
3.03 Leveling & Compaction Equipment										
Q0301-031	Motor Grader, 3.1m	hr	4.2%	5.9%	89.9%	50.4%	49.6%	1,940.00		5.22
Q0302-204	Stabilizer, W=2.0m, D=0.4m	hr	0.5%	1.4%	98.1%	55.1%	44.9%	16,900.00		5.20
Q0303-012	Road Roller, macadam, 10~12t	hr	6.2%	6.9%	87.0%	48.6%	51.4%	1,320.00		5.22
Q0304-020	Tire Roller, 8~20t	hr	6.0%	6.1%	87.8%	49.0%	51.0%	1,420.00		5.00
Q0305-011	Vibration Roller, Handy, 0.8~1.1t	hr	26.4%	4.1%	69.5%	42.5%	57.5%	295.00		5.22
Q0305-140	Vibration Roller, combined, 3~4t	hr	9.5%	4.2%	86.3%	49.2%	50.8%	949.00		4.80
Q0305-210	Vibration Roller, tandem, 8~10t	hr	2.9%	6.5%	90.5%	53.0%	47.0%	2,770.00		5.13
Q0306-010	Tamper and Rammer, 60~100kg	day	48.3%	7.5%	44.2%	33.6%	66.4%	849.00		5.00
Q0307-110	Vibration Compactor, 100~110kg	day	47.6%	9.9%	42.5%	33.9%	66.1%	861.00		5.00

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
3.04 Lifting Equipment										
Q0401-022	Crawler Crane, 22.5t	hr	3.0%	3.4%	93.6%	51.0%	49.0%	2,410.00		5.82
Q0401-027	Crawler Crane, 25~27t	hr	2.5%	3.4%	94.0%	51.3%	48.7%	2,870.00		5.82
Q0401-037	Crawler Crane, 35~37t	hr	1.8%	2.6%	95.6%	51.5%	48.5%	3,950.00		5.82
Q0401-040	Crawler Crane, 40t	hr	2.1%	4.0%	93.9%	51.6%	48.4%	3,250.00		6.21
Q0401-050	Crawler Crane, 50t	hr	1.6%	3.6%	94.8%	51.8%	48.2%	4,240.00		6.21
Q0401-060	Crawler Crane, 60t	hr	1.2%	2.9%	95.9%	51.9%	48.1%	5,590.00		6.21
Q0402-005	Truck Crane, 4.8~4.9t	hr	8.3%	7.0%	84.7%	51.7%	48.3%	931.00		5.71
Q0402-011	Truck Crane, 10~11t	hr	4.9%	4.2%	90.9%	53.3%	46.7%	1,570.00		5.71
Q0402-016	Truck Crane, 15~16t	hr	3.7%	3.6%	92.7%	53.9%	46.1%	2,100.00		5.71
Q0402-022	Truck Crane, 20~22t	hr	3.3%	3.3%	93.4%	54.1%	45.9%	2,380.00		5.71
Q0402-025	Truck Crane, 25t	hr	2.7%	3.4%	93.8%	54.4%	45.6%	2,850.00		5.71
Q0402-030	Truck Crane, 30t	hr	2.2%	2.9%	94.9%	54.7%	45.3%	3,510.00		5.71
Q0402-036	Truck Crane, 35~36t	hr	2.0%	3.7%	94.3%	54.9%	45.1%	3,880.00		5.71
Q0402-045	Truck Crane, 40~45t	hr	1.6%	3.1%	95.3%	55.0%	45.0%	4,830.00		5.71
Q0402-060	Truck Crane, 60t	hr	1.2%	2.4%	96.3%	55.2%	44.8%	6,250.00		5.71
Q0402-080	Truck Crane, 80t	hr	0.7%	2.0%	97.3%	55.4%	44.6%	11,300.00		5.71
Q0402-120	Truck Crane, 120t	hr	0.5%	1.6%	97.9%	55.5%	44.5%	15,800.00		5.71
Q0402-136	Truck Crane, 127~136t	hr	0.4%	1.5%	98.1%	55.6%	44.4%	15,800.00		7.80
Q0402-150	Truck Crane, 150t	hr	0.3%	1.6%	98.1%	55.6%	44.4%	17,500.00		7.80
Q0402-160	Truck Crane, 160t	hr	0.4%	1.4%	98.2%	55.5%	44.5%	21,100.00		5.71
Q0403-020	Wheel Crane, 20~22t	hr	3.1%	8.8%	88.1%	53.3%	46.7%	2,350.00		5.93
Q0404-010	Winch, 1.0tx40m/min	day	0.0%	0.0%	100.0%	52.8%	47.2%	300.00	Depreciation	0.00
Q0404-028	Winch, 2.8tx30m/min	day	0.0%	0.0%	100.0%	53.6%	46.4%	1,510.00	Depreciation	0.00
Q0405-009	Lift Car, 8~9m	hr	9.9%	3.9%	86.2%	52.5%	47.5%	827.00		5.25
Q0405-013	Lift Car, 12~13m	hr	6.9%	3.0%	90.1%	54.1%	45.9%	1,180.00		5.25
Q0406-003	Portal Crane Frame, 3t	day	0.0%	0.0%	100.0%	55.6%	44.4%	1,700.00	Depreciation	0.00
Q0406-010	Portal Crane Frame, 10t	day	0.0%	0.0%	100.0%	55.2%	44.8%	4,520.00	Depreciation	0.00
Q0406-103	Portal Crane Hoist, 3t	day	0.0%	0.0%	100.0%	54.5%	45.5%	325.00	Depreciation	0.00
Q0406-110	Portal Crane Hoist, 10t	day	0.0%	0.0%	100.0%	54.4%	45.6%	1,040.00	Depreciation	0.00
Q0407-030	Lever Block, 3.0t	day	0.0%	0.0%	100.0%	65.4%	34.6%	58.30	Depreciation	0.00
Q0408-010	Chain Block, 1.0t	day	0.0%	0.0%	100.0%	58.6%	41.4%	132.00	Depreciation	0.00
3.05 Piling Equipment										
Q0503-022	Vibro Hammer, 22kW + Crawler Crane, 35~37t	hr	1.3%	2.6%	96.0%	52.6%	47.4%	4,860.00		6.56
Q0503-030	Vibro Hammer, 30kW + Crawler Crane, 35~37t	hr	1.3%	2.7%	96.0%	52.8%	47.2%	5,100.00		6.56
Q0503-040	Vibro Hammer, 40kW + Crawler Crane, 35~37t	hr	1.2%	2.8%	96.0%	53.0%	47.0%	5,350.00		6.56
Q0503-060	Vibro Hammer, 60kW + Crawler Crane, 40t	hr	1.2%	3.8%	95.0%	53.7%	46.3%	5,350.00		6.56
Q0504-025	Diesel Hammer Piling Machine, crawler, triaxial support, ram 2.5t	hr	0.7%	4.0%	95.3%	53.8%	46.2%	10,000.00		5.82
Q0504-035	Diesel Hammer Piling Machine, crawler, triaxial support, ram 3.5t	hr	0.6%	4.3%	95.1%	53.9%	46.1%	12,000.00		5.82
Q0504-045	Diesel Hammer Piling Machine, crawler, triaxial support, ram 4.5t	hr	0.6%	4.7%	94.8%	54.0%	46.0%	13,100.00		5.82
Q0504-060	Diesel Hammer Piling Machine, crawler, triaxial support, ram 6.0t	hr	0.4%	4.6%	95.0%	54.0%	46.0%	17,200.00		5.82
Q0504-072	Diesel Hammer Piling Machine, crawler, triaxial support, ram 7.2t	hr	0.3%	4.3%	95.3%	54.1%	45.9%	21,000.00		5.82
Q0505-013	Diesel Hammer Piling Machine, crawler, boom, ram 1.3t	hr	1.3%	5.1%	93.7%	55.2%	44.8%	5,750.00		5.82
Q0505-025	Diesel Hammer Piling Machine, crawler, boom, ram 2.5t	hr	1.2%	6.8%	92.0%	55.4%	44.6%	6,330.00		5.82
Q0506-020	Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 2.0 t	hr	0.9%	5.7%	93.4%	55.5%	44.5%	8,480.00		5.82
Q0506-045	Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 4.0~4.5 t	hr	0.7%	6.0%	93.4%	55.6%	44.4%	10,800.00		5.82
Q0506-065	Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 6.5 t	hr	0.6%	5.1%	94.4%	55.6%	44.4%	13,000.00		5.82
Q0506-080	Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 7.0~8.0 t	hr	0.5%	4.4%	95.1%	55.6%	44.4%	15,000.00		5.82
Q0506-125	Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 10~12.5 t	hr	0.5%	4.1%	95.4%	55.6%	44.4%	16,000.00		5.82
Q0507-030	Diesel Hammer & Earth Auger Piling Machine, crawler, triaxial support, ram 2.5t, auger 30kW	hr	0.8%	2.6%	96.5%	55.2%	44.8%	8,760.00		5.82
Q0507-045	Diesel Hammer & Earth Auger Piling Machine, crawler, triaxial support, ram 3.5, auger 45kW	hr	0.6%	2.3%	97.1%	55.3%	44.7%	11,400.00		5.82
Q0508-030	Earth Auger Piling Machine, crawler, 30kW	hr	0.8%	0.9%	98.3%	55.0%	45.0%	8,610.00		5.82
Q0508-045	Earth Auger Piling Machine, crawler, 45kW	hr	0.6%	0.7%	98.7%	55.2%	44.8%	12,800.00		5.82
Q0509-045	Earth Auger, crawler, 45kW	hr	0.7%	0.7%	98.6%	55.1%	44.9%	11,200.00		6.00
Q0509-055	Earth Auger, crawler, 55kW	hr	0.6%	0.7%	98.7%	55.2%	44.8%	12,400.00		6.00
Q0513-120	All Casing Excavator, φ1200max	hr	1.0%	4.4%	94.6%	55.4%	44.6%	6,210.00		6.50
Q0513-150	All Casing Excavator, φ1500max	hr	0.7%	2.1%	97.2%	55.3%	44.7%	8,630.00		6.50
Q0513-200	All Casing Excavator, φ2000max	hr	0.5%	1.5%	97.9%	55.4%	44.6%	11,700.00		6.50
Q0514-080	Hammer Grab, φ800	day	0.0%	0.0%	100.0%	67.0%	33.0%	5,170.00	Depreciation	0.00
Q0514-100	Hammer Grab, φ1000	day	0.0%	0.0%	100.0%	67.0%	33.0%	5,660.00	Depreciation	0.00
Q0514-120	Hammer Grab, φ1200	day	0.0%	0.0%	100.0%	67.0%	33.0%	5,910.00	Depreciation	0.00
Q0514-150	Hammer Grab, φ1500	day	0.0%	0.0%	100.0%	67.0%	33.0%	10,100.00	Depreciation	0.00

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
Q0515-001	Hammer Crown, $\leq \phi 1200$	day	0.0%	0.0%	100.0%	70.7%	29.3%	1,430.00	Depreciation	0.00
Q0515-002	Hammer Crown, $> \phi 1200$	day	0.0%	0.0%	100.0%	70.7%	29.3%	1,920.00	Depreciation	0.00
Q0516-085	Casing Tube, $\phi 800$, L=5m	day	0.0%	0.0%	100.0%	68.5%	31.5%	1,710.00	Depreciation	0.00
Q0516-105	Casing Tube, $\phi 1000$, L=5m	day	0.0%	0.0%	100.0%	68.5%	31.5%	1,780.00	Depreciation	0.00
Q0516-125	Casing Tube, $\phi 1200$, L=5m	day	0.0%	0.0%	100.0%	68.5%	31.5%	2,080.00	Depreciation	0.00
Q0516-155	Casing Tube, $\phi 1500$, L=5m	day	0.0%	0.0%	100.0%	68.5%	31.5%	2,690.00	Depreciation	0.00
Q0518-055	Reverse Circulation Drill, 55kW	hr	1.9%	2.5%	95.6%	54.1%	45.9%	3,670.00		6.18
Q0518-075	Reverse Circulation Drill, 75kW	hr	1.7%	3.2%	95.1%	54.2%	45.8%	4,040.00		6.18
Q0520-075	Sand Piling Machine, 75kW (35~37t)	hr	0.5%	0.6%	99.0%	55.2%	44.8%	15,800.00		5.91
Q0520-120	Sand Piling Machine, 120kW (40t)	hr	0.4%	0.6%	99.0%	55.3%	44.7%	17,900.00		5.91
Q0521-120	Three Wing Bit, $\phi 800 \sim 1200$	day	0.0%	0.0%	100.0%	70.7%	29.3%	1,090.00	Depreciation	0.00
Q0522-100	Hydraulic Steel Pipe Jack, $\phi 1000$	day	0.0%	0.0%	100.0%	57.6%	42.4%	14,400.00	Depreciation	0.00
3.06 Transportation Equipment										
Q0601-002	Dump Truck, Diesel, 2t	hr	15.7%	15.2%	69.2%	46.2%	53.8%	383.00		6.12
Q0601-004	Dump Truck, Diesel, 4t	hr	10.9%	16.0%	73.1%	48.9%	51.1%	552.00		6.12
Q0601-011	Dump Truck, Diesel, 10t	hr	4.6%	12.5%	82.9%	51.7%	48.3%	1,290.00		6.12
Q0602-002	Truck, 2t	hr	18.7%	14.5%	66.8%	44.1%	55.9%	442.00		4.47
Q0602-003	Truck, 3~3.5t	hr	15.8%	13.2%	71.0%	45.4%	54.6%	522.00		4.47
Q0603-004	Truck with 2.9t crane, 4t	hr	8.3%	10.6%	81.0%	49.0%	51.0%	809.00		5.69
Q0604-015	Trailer, 15t	hr	4.0%	13.7%	82.3%	54.5%	45.5%	1,580.00		5.83
Q0605-045	Concrete Mixer Truck 4.4~4.5m ³	hr	5.8%	12.0%	82.2%	53.7%	46.3%	1,290.00		5.06
Q0611-020	Cart, 20t	day	0.0%	0.0%	100.0%	59.2%	40.8%	423.00	Depreciation	0.00
Q0611-040	Cart, 40t	day	0.0%	0.0%	100.0%	59.2%	40.8%	686.00	Depreciation	0.00
3.07 Concrete Work Equipment										
Q0701-030	Concrete Plant, 30m ³ /hr	hr	2.1%	3.0%	94.9%	52.0%	48.0%	3,670.00		5.53
Q0701-045	Concrete Plant, 45m ³ /hr	hr	1.3%	2.6%	96.1%	52.4%	47.6%	5,820.00		5.53
Q0702-060	Concrete Pump Vehicle, 55~60m ³ /hr	hr	2.3%	4.9%	92.8%	56.3%	43.7%	2,640.00		7.06
Q0702-085	Concrete Pump Vehicle, 65~85m ³ /hr	hr	1.9%	5.4%	92.6%	56.5%	43.5%	3,100.00		7.06
Q0702-110	Concrete Pump Vehicle, 90~110m ³ /hr	hr	1.5%	5.1%	93.4%	56.8%	43.2%	3,960.00		7.06
Q0703-075	Concrete Pump, 70~75m ³ /hr	hr	1.3%	3.0%	95.8%	57.1%	42.9%	4,800.00		7.00
Q0704-010	Concrete Bucket, 1.0m ³	day	0.0%	0.0%	100.0%	60.1%	39.9%	572.00	Depreciation	0.00
Q0705-075	Concrete Spreader, 3~7.5m	hr	2.2%	1.5%	96.2%	52.9%	47.1%	3,260.00		5.88
Q0706-045	Concrete Finisher, 3~4.5m	hr	2.2%	0.9%	96.9%	52.7%	47.3%	3,240.00		6.00
Q0706-075	Concrete Finisher, 3~7.5m	hr	1.2%	0.8%	98.0%	53.3%	46.7%	6,150.00		6.00
Q0706-175	Concrete Vertical Finisher, 3~7.5m	hr	1.6%	0.6%	97.8%	53.2%	46.8%	4,690.00		5.88
Q0707-005	Finishing Screenshot, 3.5~5m	day	41.6%	2.9%	55.5%	39.8%	60.2%	1,030.00		5.09
Q0708-060	Concrete Vibrator Rod, $\phi 60$ mm	day	0.0%	0.0%	100.0%	60.0%	36.0%	244.00		0.00
Q0709-040	Concrete Cutter, blade $\phi 40$ cm	day	34.9%	8.5%	56.6%	41.3%	58.7%	1,170.00		5.00
Q0709-055	Concrete Cutter, blade $\phi 56$ cm	day	21.1%	8.4%	70.5%	49.2%	50.8%	1,940.00		5.00
Q0709-065	Concrete Cutter, blade $\phi 65$ cm	day	13.5%	8.7%	77.8%	53.9%	46.1%	3,030.00		5.00
Q0709-075	Concrete Cutter, blade $\phi 75$ cm	day	8.0%	7.1%	84.9%	57.2%	42.8%	5,100.00		5.00
Q0709-106	Concrete Cutter, blade $\phi 106$ cm	day	7.8%	8.4%	83.8%	57.4%	42.6%	5,260.00		5.00
Q0710-030	Grout Pump, 15~30 ltr/min	day	0.0%	0.0%	100.0%	52.7%	47.3%	697.00		0.00
Q0710-100	Grout Pump, 37~100 ltr/min	day	0.0%	2.2%	97.8%	53.1%	46.9%	1,400.00		1.50
Q0711-120	Grout Mixer, 1x200 ltr	day	0.0%	0.0%	100.0%	52.8%	47.2%	528.00		0.00
Q0711-220	Grout Mixer, 2x200 ltr	day	0.0%	1.2%	98.8%	52.9%	47.1%	607.00		1.50
Q0711-240	Grout Mixer, 2x400 ltr	day	0.0%	4.5%	95.5%	57.4%	42.6%	982.00		0.00
Q0712-012	Mortar Gun, wet, 0.8~1.2m ³ /hr	hr	0.0%	4.5%	95.5%	57.4%	42.6%	936.00		6.42
Q0713-060	Concrete Gun, 6m ³ /hr	hr	0.0%	5.0%	95.0%	56.7%	43.3%	831.00		6.75
Q0713-300	Mortar Plant, 2x500 ltr, 281~300 ltr/min	day	0.0%	0.9%	99.1%	52.8%	47.2%	10,300.00		1.80
Q0715-126	Jet Heater 126MI/h	hr	0.0%	0.0%	100.0%	56.2%	43.8%	10.00		9.50
Q0716-060	Jaw Crusher 600x900	hr	0.0%	37.5%	62.5%	56.5%	43.5%	395.00		6.92
Q0717-090	Vibration Sieve 900x1800	hr	0.0%	11.7%	88.3%	58.4%	41.6%	61.60		6.83
3.08 Asphalt Work Equipment										
Q0802-028	Asphalt Finisher, crawler, 1.6~2.8m	hr	3.5%	2.5%	94.0%	52.2%	47.8%	2,210.00		5.50
Q0802-050	Asphalt Finisher, crawler, 2.4~5.0m	hr	1.4%	1.2%	97.5%	53.2%	46.8%	5,600.00		5.50
Q0802-120	Asphalt Finisher, crawler, 3~12m	hr	0.6%	1.9%	97.5%	53.7%	46.3%	12,900.00		5.50
Q0803-045	Asphalt Finisher, wheel, 2.4~4.5m	hr	1.6%	1.5%	96.8%	53.1%	46.9%	4,710.00		5.50
Q0804-400	Asphalt Distributor, 4000 ltr	day	4.9%	8.0%	87.1%	52.0%	48.0%	7,580.00		4.30
Q0805-200	Asphalt Engine Sprayer, 200 ltr	day	51.5%	0.0%	48.5%	31.7%	68.3%	833.00		4.30
Q0806-045	Asphalt Curber, 4~4.5m ³ /h	day	18.5%	4.8%	76.7%	48.2%	51.8%	2,220.00		5.00
Q0807-020	Road Cutter, wheel, 2.0m	hr	0.7%	4.4%	94.9%	53.8%	46.2%	11,000.00		5.43
Q0809-023	Road Surface Heater	hr	0.7%	0.9%	98.4%	55.6%	44.4%	9,600.00		6.57
3.09 Steel Work Equipment										
Q0901-025	Electric Welder, 250A	day	0.0%	0.0%	100.0%	53.2%	46.8%	97.80		3.30
Q0901-050	Electric Welder, 500A	day	0.0%	0.0%	100.0%	53.2%	46.8%	189.00		0.00
3.10 Generator, Pumps & Blowers										
Q1001-010	Generator, 10kVA	day	0.0%	8.7%	91.3%	60.3%	39.7%	915.00		3.00
Q1001-015	Generator, 15kVA	day	0.0%	9.1%	90.9%	60.4%	39.6%	1,160.00		3.00
Q1001-020	Generator, 20kVA	day	0.0%	8.7%	91.3%	60.3%	39.7%	1,370.00		3.00
Q1001-035	Generator, 35kVA	day	0.0%	12.4%	87.6%	60.5%	39.5%	1,670.00		3.00
Q1001-045	Generator, 45kVA	day	0.0%	14.1%	85.9%	60.6%	39.4%	1,880.00		3.00
Q1001-060	Generator, 60kVA	day	0.0%	14.9%	85.1%	60.7%	39.3%	2,410.00		3.00
Q1001-075	Generator, 75kVA	day	0.0%	14.0%	86.0%	60.6%	39.4%	3,080.00		3.00
Q1001-100	Generator, 100kVA	day	0.0%	17.7%	82.3%	60.8%	39.2%	3,270.00		3.00
Q1001-125	Generator, 125kVA	day	0.0%	17.7%	82.3%	60.8%	39.2%	4,130.00		3.00
Q1001-150	Generator, 150kVA	day	0.0%	17.5%	82.5%	60.8%	39.2%	4,810.00		3.00
Q1001-200	Generator, 200kVA	day	0.0%	18.7%	81.3%	60.8%	39.2%	6,530.00		3.00
Q1001-300	Generator, 300kVA	day	0.0%	16.0%	84.0%	60.7%	39.3%	9,720.00		3.00
Q1001-350	Generator, 350kVA	day	0.0%	19.1%	80.9%	60.9%	39.1%	10,900.00		3.00

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
Q1002-037	Air Compressor, 3.5~3.7m ³ /min	day	0.0%	11.7%	88.3%	59.1%	40.9%	1,710.00		3.00
Q1002-050	Air Compressor, 5.0m ³ /min	day	0.0%	12.2%	87.8%	59.1%	40.9%	2,450.00		3.00
Q1002-076	Air Compressor, 7.5m ³ /min	day	0.0%	12.4%	87.6%	59.1%	40.9%	3,630.00		3.00
Q1002-110	Air Compressor, 10.5~11.0m ³ /min	day	0.0%	10.8%	89.2%	59.0%	41.0%	5,660.00		3.00
Q1002-170	Air Compressor, 17m ³ /min	day	0.0%	13.6%	86.4%	59.2%	40.8%	6,490.00		3.00
Q1003-100	Blower, 100m ³ , 1.1 kw/cm ²	hr	0.0%	31.6%	68.4%	60.7%	39.3%	1,460.00		16.07
Q1004-051	Water Pump, φ50mm, 0.8kW	day	0.0%	11.7%	88.3%	55.4%	44.6%	85.70		5.00
Q1005-101	Submerged Pump, φ100mm, 3.7kW	day	0.0%	22.2%	77.8%	54.8%	45.2%	317.00		8.00
Q1005-102	Submerged Pump, φ100mm, 5.5kW	day	0.0%	24.8%	75.2%	54.6%	45.4%	412.00		8.00
Q1005-151	Submerged Pump, φ150mm, 7.5kW	day	0.0%	30.2%	69.8%	54.3%	45.7%	466.00		8.00
Q1005-152	Submerged Pump, φ150mm, 11.0kW	day	0.0%	31.2%	68.8%	54.2%	45.8%	666.00		8.00
Q1005-201	Submerged Pump, φ200mm, 11.0kW	day	0.0%	29.2%	70.8%	54.3%	45.7%	701.00		8.00
Q1005-202	Submerged Pump, φ200mm, 15.0kW	day	0.0%	27.3%	72.7%	54.4%	45.6%	1,030.00		8.00
Q1006-101	Sand Pump, φ100mm, 5.5kW	day	0.0%	0.0%	100.0%	55.9%	44.1%	294.00		0.00
Q1007-005	Water Tank, 5m ³	day	0.0%	0.0%	100.0%	61.1%	38.9%	178.00	Depreciation	0.00
Q1008-020	Hydraulic Jack, 20t	day	0.0%	0.0%	100.0%	60.3%	39.7%	245.00	Depreciation	0.00
Q1008-030	Hydraulic Jack, 30t	day	0.0%	0.0%	100.0%	60.3%	39.7%	296.00	Depreciation	0.00
Q1008-050	Hydraulic Jack, 50t	day	0.0%	0.0%	100.0%	60.3%	39.7%	409.00	Depreciation	0.00
Q1008-075	Hydraulic Jack, 75t	day	0.0%	0.0%	100.0%	60.3%	39.7%	506.00	Depreciation	0.00
Q1008-100	Hydraulic Jack, 100t	day	0.0%	0.0%	100.0%	60.3%	39.7%	612.00	Depreciation	0.00
Q1008-150	Hydraulic Jack, 150t	day	0.0%	0.0%	100.0%	60.3%	39.7%	887.00	Depreciation	0.00
Q1008-200	Hydraulic Jack, 200t	day	0.0%	0.0%	100.0%	60.3%	39.7%	1,150.00	Depreciation	0.00
Q1008-300	Hydraulic Jack, 300t	day	0.0%	0.0%	100.0%	60.3%	39.7%	1,670.00	Depreciation	0.00
Q1009-050	Hydraulic Jack, Electric, 50t	day	0.0%	0.0%	100.0%	59.9%	40.1%	927.00	Depreciation	0.00
Q1011-015	Hydraulic Pump, 1.5kW	day	0.0%	0.0%	100.0%	60.3%	39.7%	1,370.00	Depreciation	0.00
3.11 Road Maintenance Equipment										
Q1101-031	Road Washer, brush, 2~3.1m ³	hr	2.2%	4.6%	93.2%	57.3%	42.7%	2,500.00		7.60
Q1101-045	Road Washer, Vacuum, 4.5m ³	hr	2.4%	4.1%	93.5%	57.1%	42.9%	2,280.00		7.60
Q1101-055	Road Washer, Vacuum, 5.5m ³	hr	1.7%	3.0%	95.3%	57.5%	42.5%	3,360.00		7.60
Q1102-125	Guardrail Washer	hr	3.8%	3.8%	92.4%	54.7%	45.3%	1,890.00		5.33
Q1103-380	Water Sprinkle Vehicle, 3800 ltr	hr	9.5%	7.0%	83.5%	51.1%	48.9%	828.00		4.80
Q1103-650	Water Sprinkle Vehicle, 5500~6500 ltr	hr	7.4%	6.2%	86.4%	52.2%	47.8%	1,060.00		4.80
Q1104-600	Guardrail Post Piler, 400~600kw	hr	4.0%	1.2%	94.8%	55.1%	44.9%	1,610.00		6.38
Q1105-255	Grass Cutter, shoulder type 255mm	day	0.0%	0.0%	100.0%	62.8%	37.2%	78.40	Depreciation	0.00
Q1106-015	Line Marker (Solution Type, Hand Guide) 15cm	hr	0.0%	0.0%	100.0%	60.5%	39.5%	65.40		5.70
Q1106-030	Line Marker (Solution Type, Hand Guide) 30, 45cm	hr	0.0%	0.0%	100.0%	60.5%	39.5%	40.90		5.70
Q1107-015	Line Marker (Paint Type, Hand Guide) 15cm	hr	0.0%	2.9%	97.1%	58.5%	41.5%	1,700.00		6.00
Q1108-022	High Pressure Washer 2.2kW	day	0.0%	0.0%	100.0%	56.2%	43.8%	167.00	Depreciation	0.00
3.15 Miscellaneous										
Q1501-030	Rail 30kg/m x 100m	day	0.0%	0.0%	100.0%	53.0%	47.0%	70.90	Depreciation	0.00
Q1511-060	Square Pipe, 60mm x 1000m	day	0.0%	0.0%	100.0%	71.2%	28.8%	249.00	Depreciation	0.00
Q1521-014	PC Bridge Cantilever Construction Form Traveler, W≤14m	day	0.0%	0.0%	100.0%	60.9%	39.1%	16,700.00	Depreciation	0.00
Q1521-017	PC Bridge Cantilever Construction Operation Wagon, W≤17m	day	0.0%	0.0%	100.0%	60.9%	39.1%	22,200.00	Depreciation	0.00
Q1521-020	PC Bridge Cantilever Construction Operation Wagon, W≤20m	day	0.0%	0.0%	100.0%	60.9%	39.1%	30,000.00	Depreciation	0.00
Q1521-024	PC Bridge Cantilever Construction Operation Wagon, W≤24m	day	0.0%	0.0%	100.0%	60.9%	39.1%	32,600.00	Depreciation	0.00
Q1531-001	Electric Drill	day	0.0%	0.0%	100.0%	59.9%	40.1%	16.50	Depreciation	0.00
Q1531-002	Hammer Drill	day	0.0%	0.0%	100.0%	59.9%	40.1%	47.00	Depreciation	0.00
Q1541-001	Steel Formwork 10m ²	day	0.0%	0.0%	100.0%	70.8%	29.2%	67.30	Depreciation	0.00
Q1551-001	Erection Girder t	day	0.0%	0.0%	100.0%	59.2%	40.8%	270.00	Depreciation	0.00
Q1561-001	Temporary Frame Support (Portal 914x1700)	day	0.0%	0.0%	100.0%	70.3%	29.7%	3.44	Depreciation	0.00
Q1561-002	Temporary Frame Support (Portal 1219x1700)	day	0.0%	0.0%	100.0%	70.3%	29.7%	3.77	Depreciation	0.00
Q1561-003	Temporary Frame Support (Portal 1219x1829)	day	0.0%	0.0%	100.0%	70.3%	29.7%	5.04	Depreciation	0.00
Q1561-011	Temporary Frame Support (bracing 914 x 1219)	day	0.0%	0.0%	100.0%	69.7%	30.3%	0.74	Depreciation	0.00
Q1561-012	Temporary Frame Support (bracing 1219 x 1219)	day	0.0%	0.0%	100.0%	69.7%	30.3%	0.78	Depreciation	0.00
Q1561-013	Temporary Frame Support (bracing 1829 x 1219)	day	0.0%	0.0%	100.0%	69.7%	30.3%	0.89	Depreciation	0.00
4. Rental Equipment Operation Cost										
4.01 Excavation Equipment										
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	hr	3.0%	7.8%	89.2%	53.6%	46.4%	2,700.00		5.27
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	1.6%	8.1%	90.3%	54.3%	45.7%	4,160.00		6.58
R0102-010	Backhoe, hydraulic, crawler, 0.11m ³	day	10.3%	8.5%	81.2%	49.6%	50.4%	4,170.00		0.00
R0102-035	Backhoe, hydraulic, crawler, 0.35m ³	hr	6.5%	8.4%	85.1%	51.8%	48.2%	1,210.00		5.47
R0102-061	Backhoe, hydraulic, crawler, 0.61m ³	hr	4.5%	8.4%	87.1%	52.9%	47.1%	1,740.00		5.47
R0102-070	Backhoe, hydraulic, crawler, 0.70m ³	hr	3.9%	8.1%	88.0%	53.0%	47.0%	2,020.00		5.47
R0102-080	Backhoe, hydraulic, crawler, 0.80m ³	hr	3.4%	7.7%	88.9%	53.3%	46.7%	2,330.00		5.47
4.02 Demolition Equipment										

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
R0201-020	Rock Drill/Breaker 20cfm	day	0.0%	0.0%	100.0%	54.4%	45.6%	1,400.00		0.00
R0202-000	Crawler Drill	hr	0.0%	0.0%	100.0%	54.3%	45.7%	518.00		5.00
R0204-020	Pneumatic Breaker, Handhold	day	0.0%	0.0%	100.0%	54.3%	45.7%	457.00		0.00
R0207-020	Chipping Hammer	day	0.0%	0.0%	100.0%	54.3%	45.7%	664.00		0.00
4.03 Leveling & Compaction Equipment										
R0301-285	Motor Grader, 2.85m	hr	3.9%	4.0%	92.1%	52.7%	47.3%	2,120.00		5.22
R0301-371	Motor Grader, 3.71m	hr	3.7%	6.9%	89.4%	53.2%	46.8%	2,230.00		5.22
R0302-000	Soil Stabilizer/Road Reclaimer	hr	1.4%	4.2%	94.4%	54.0%	46.0%	5,840.00		5.20
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	hr	4.4%	8.0%	87.6%	52.7%	47.3%	1,970.00		5.00
R0305-037	Vibratory Single Smooth Drum 3.75t (Vibration Roller, combined, 3~4t)	hr	20.7%	9.0%	70.3%	44.0%	56.0%	431.00		4.80
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	4.1%	8.9%	87.0%	52.9%	47.1%	2,040.00		5.13
R0306-006	Vibration Rammer, 6in	day	0.0%	49.4%	50.6%	59.7%	40.3%	158.00		0.00
R0307-000	Plate Compactor	day	0.0%	17.7%	82.3%	56.2%	43.8%	780.00		0.00
4.04 Lifting Equipment										
R0401-025	Crawler Crane, 21-25t	hr	4.7%	8.0%	87.3%	52.7%	47.3%	1,560.00		5.82
R0401-030	Crawler Crane, 26-30t	hr	4.6%	7.8%	87.6%	52.5%	47.5%	1,600.00		5.82
R0401-035	Crawler Crane, 31-35t	hr	4.4%	9.8%	85.8%	52.9%	47.1%	1,680.00		5.82
R0401-040	Crawler Crane, 36-40t	hr	3.8%	8.4%	87.8%	53.2%	46.8%	1,950.00		5.82
R0401-045	Crawler Crane, 41-45t	hr	3.3%	7.7%	89.0%	53.4%	46.6%	2,120.00		6.21
R0401-050	Crawler Crane, 46-50t	hr	2.8%	6.6%	90.6%	53.6%	46.4%	2,480.00		6.21
R0401-060	Crawler Crane, 51-60t	hr	2.5%	8.7%	88.8%	53.8%	46.2%	2,710.00		6.21
R0402-005	Truck Crane, Hydraulic 2-5t	hr	18.2%	10.9%	70.9%	45.6%	54.4%	413.00		5.71
R0402-010	Truck Crane, Hydraulic 6-10t	hr	15.5%	9.3%	75.2%	46.9%	53.1%	486.00		5.71
R0402-015	Truck Crane, Hydraulic 11-15t	hr	8.5%	8.3%	83.2%	50.5%	49.5%	881.00		5.71
R0402-020	Truck Crane, Hydraulic 16-20t	hr	7.0%	7.7%	85.3%	51.5%	48.5%	1,070.00		5.71
R0402-025	Truck Crane, Hydraulic 21-25t	hr	5.8%	6.8%	87.6%	52.0%	48.0%	1,330.00		5.71
R0402-030	Truck Crane, Hydraulic 26-30t	hr	5.1%	7.3%	87.6%	52.2%	47.8%	1,470.00		5.71
R0402-035	Truck Crane, Hydraulic 31-35t	hr	4.5%	6.4%	89.1%	52.4%	47.6%	1,680.00		5.71
R0402-040	Truck Crane, Hydraulic 36-40t	hr	4.3%	6.2%	89.5%	52.8%	47.2%	1,750.00		5.71
R0402-045	Truck Crane, Hydraulic 41-45t	hr	3.4%	5.0%	91.6%	53.1%	46.9%	2,240.00		5.71
R0402-050	Truck Crane, Hydraulic 46-50t	hr	3.2%	4.8%	92.0%	53.0%	47.0%	2,330.00		5.71
R0402-060	Truck Crane, Hydraulic 51-60t	hr	3.0%	5.1%	91.9%	53.1%	46.9%	2,510.00		5.71
R0402-070	Truck Crane, Hydraulic 61-70t	hr	2.7%	4.6%	92.7%	53.3%	46.7%	2,780.00		5.71
R0402-080	Truck Crane, Hydraulic 71-80t	hr	2.4%	4.2%	93.4%	53.5%	46.5%	3,080.00		5.71
R0402-090	Truck Crane, Hydraulic 81-90t	hr	1.9%	3.3%	94.8%	53.7%	46.3%	3,920.00		5.71
R0402-100	Truck Crane, Hydraulic 91-100t	hr	1.5%	2.6%	95.9%	53.8%	46.2%	5,050.00		5.71
R0402-120	Truck Crane, Hydraulic 101-120t	hr	1.1%	1.9%	97.0%	53.9%	46.1%	6,960.00		5.71
R0402-140	Truck Crane, Hydraulic 121-140t	hr	0.9%	1.9%	97.2%	54.0%	46.0%	8,240.00		5.71
R0402-160	Truck Crane, Hydraulic 141-160t	hr	0.8%	1.9%	97.3%	54.0%	46.0%	8,960.00		5.71
R0402-180	Truck Crane, Hydraulic 161-180t	hr	0.8%	2.0%	97.2%	54.1%	45.9%	9,720.00		5.71
4.05 Piling Equipment										
R0501-013	Diesel Hammer w/o Crane, 1.3t	hr	0.0%	11.3%	88.7%	55.4%	44.6%	1,060.00		6.29
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	0.0%	0.0%	100.0%	55.6%	44.4%	1,670.00		6.29
R0501-035	Diesel Hammer w/o Crane, 3.5t	hr	0.0%	0.0%	100.0%	56.0%	44.0%	2,060.00		6.29
R0501-045	Diesel Hammer w/o Crane, 4.5t	hr	0.0%	0.0%	100.0%	55.7%	44.3%	3,000.00		6.29
R0501-060	Diesel Hammer w/o Crane, 6.0t	hr	0.0%	12.9%	87.1%	55.7%	44.3%	4,300.00		6.29
R0502-045	Vibratory Pile Driver, Hydraulic 45 t-m	hr	1.9%	22.6%	75.5%	55.7%	44.3%	3,420.00		6.56
R0502-070	Vibratory Pile Driver, Hydraulic 70 t-m	hr	1.2%	21.4%	77.4%	55.9%	44.1%	5,340.00		6.56
R0502-120	Vibratory Pile Driver, Hydraulic 120 kN-m	hr	1.5%	14.2%	84.3%	55.1%	44.9%	4,450.00		6.56
R0503-060	Vibratory Pile Driver, Electric 60kW w/o Genset	hr	8.9%	9.9%	81.2%	49.0%	51.0%	734.00		6.56
R0507-030	Piling Rig, Triaxial, Hydraulic w/ auger	hr	1.1%	4.4%	94.5%	54.2%	45.8%	6,090.00		6.27
R0517-181	Drilling Rig, Hydraulic, Crawler φ1800mm x 20m deep	hr	0.6%	1.4%	98.0%	54.0%	46.0%	11,500.00		6.27
R0517-182	Drilling Rig, Hydraulic, Crawler φ1800mm x 53m deep	hr	0.5%	2.2%	97.3%	54.1%	45.9%	13,100.00		6.27
R0517-201	Drilling Rig, Hydraulic, Crawler φ2000mm x 65m deep	hr	0.5%	1.9%	97.6%	54.3%	45.7%	14,000.00		6.27
R0517-202	Drilling Rig, Hydraulic, Crawler φ2500mm x 68m deep	hr	0.5%	1.7%	97.8%	54.2%	45.8%	15,000.00		6.27
R0517-203	Drill Rig, Mechanical Rotary w/o crane 600~2000mm x 68m deep	hr	0.0%	3.9%	96.1%	54.7%	45.3%	3,920.00		6.27
R0518-055	Reverse Circulation Drill 55kW	hr	0.0%	18.5%	81.5%	53.6%	46.4%	507.00		6.18
4.06 Transportation Equipment										
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	13.7%	19.2%	67.1%	48.9%	51.1%	447.00		6.12
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	10.1%	17.9%	72.0%	50.7%	49.3%	604.00		6.12
R0601-009	Dump Truck, 9.0-12.0 cu-yds (6.9-9.2m3)	hr	8.1%	17.8%	74.1%	51.8%	48.2%	757.00		6.12
R0601-012	Dump Truck, 12.0-15.0 cu-yds (9.2-11.5m3)	hr	6.9%	16.1%	77.0%	52.3%	47.7%	882.00		6.12
R0601-015	Dump Truck, 15.0-20.0 cu-yds (11.5-15.3m3)	hr	5.9%	18.1%	76.0%	52.9%	47.1%	1,030.00		6.12
R0602-002	Cargo truck 2.0-5.0t	hr	14.7%	13.6%	71.7%	47.8%	52.2%	572.00		4.47
R0602-006	Cargo truck 6.0-8.0t	hr	12.2%	13.9%	73.9%	49.2%	50.8%	685.00		4.47
R0602-009	Cargo truck 9.0-10.0t	hr	9.7%	15.4%	74.9%	50.7%	49.3%	861.00		4.47
R0602-011	Cargo truck 11.0-12.0t	hr	8.3%	14.1%	77.6%	51.5%	48.5%	1,010.00		4.47
R0602-013	Cargo truck 13.0-15.0t	hr	7.4%	13.9%	78.7%	51.6%	48.4%	1,130.00		4.47
R0603-002	Pick-up truck 2.2t	hr	14.2%	10.8%	75.0%	47.8%	52.2%	590.00		4.47
R0604-020	Trailer 20t	hr	3.9%	10.7%	85.4%	53.3%	46.7%	1,670.00		5.83
R0604-045	Trailer 45t	hr	2.4%	8.2%	89.4%	53.9%	46.1%	2,700.00		5.83

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
R0605-045	Truck Mixer 3.5-4.5 cu-yds (2.7-3.4m3)	hr	9.2%	9.5%	81.3%	50.3%	49.7%	919.00		5.06
R0605-060	Truck Mixer 5.0-6.0 cu-yds (3.8-4.6m3)	hr	7.3%	8.2%	84.5%	51.2%	48.8%	1,160.00		5.06
R0605-075	Truck Mixer 6.5-7.5 cu-yds (5.0-5.7m3)	hr	6.3%	7.9%	85.8%	51.9%	48.1%	1,350.00		5.06
R0605-100	Truck Mixer 8.0-10.0 cu-yds (6.1-7.6m3)	hr	5.5%	10.3%	84.2%	52.5%	47.5%	1,540.00		5.06
R0605-120	Truck Mixer 11.0-12.0 cu-yds (8.4-9.2m3)	hr	4.6%	9.9%	85.5%	52.7%	47.3%	1,830.00		5.06
4.07 Concrete Work Equipment										
R0701-030	Concrete Batch Plant 30m3/hr with silo	hr	5.2%	7.4%	87.4%	51.2%	48.8%	1,500.00		5.53
R0701-040	Concrete Batch Plant 40m3/hr with silo	hr	3.9%	7.5%	88.6%	51.7%	48.3%	1,980.00		5.53
R0702-070	Concrete Pump Vehicle 70cu-yds/hr (53.5m3/hr)	hr	3.2%	7.1%	89.7%	53.4%	46.6%	1,880.00		7.06
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	0.0%	0.0%	100.0%	53.4%	46.6%	2,190.00		7.06
R0706-024	Concrete Paver/Finisher	hr	7.3%	3.7%	89.0%	50.8%	49.2%	979.00		6.00
R0706-090	Concrete Paver/Finisher	hr	5.1%	9.6%	85.3%	52.6%	47.4%	1,400.00		6.00
R0708-060	Concrete Vibrator	day	0.0%	8.2%	91.8%	55.2%	44.8%	438.00		0.00
R0709-014	Concrete Cutter 14in	day	0.0%	55.2%	44.8%	60.2%	39.8%	815.00		0.00
R0710-000	Grout Pump	day	0.0%	0.0%	100.0%	54.3%	45.7%	1,280.00		0.00
R0711-003	Concrete Mixer 1-3 ft3/min (0.03-0.08m3/min)	day	0.0%	2.9%	97.1%	54.6%	45.4%	418.00		0.00
R0711-006	Concrete Mixer 4-6 ft3/min (0.11-0.17m3/min)	day	0.0%	3.2%	96.8%	54.7%	45.3%	568.00		0.00
R0711-012	Concrete Mixer 7-12 ft3/min (0.20-0.33m3/min)	day	0.0%	5.1%	94.9%	54.9%	45.1%	700.00		0.00
R0711-018	Concrete Mixer 13-18 ft3/min (0.37-0.51m3/min)	day	0.0%	6.3%	93.7%	55.0%	45.0%	862.00		0.00
R0711-024	Concrete Mixer 19-24 ft3/min (0.53-0.68m3/min)	day	0.0%	7.1%	92.9%	55.2%	44.8%	1,010.00		0.00
R0711-036	Concrete Mixer 25-36 ft3/min (0.71-1.02m3/min)	day	0.0%	9.5%	90.5%	55.2%	44.8%	1,200.00		0.00
R0711-040	Concrete Mixer 37-40 ft3/min (1.05-1.13m3/min)	day	0.0%	12.3%	87.7%	55.6%	44.4%	1,370.00		0.00
R0713-000	Concrete Gun	hr	0.0%	9.6%	90.4%	53.9%	46.1%	427.00		6.75
R0716-010	Aggregate Crusher 100t/hr	hr	0.0%	5.5%	94.5%	54.1%	45.9%	2,700.00		6.92
R0716-025	Aggregate Crusher 160-250t/hr	hr	0.0%	5.8%	94.2%	54.1%	45.9%	5,120.00		6.92
R0716-027	Aggregate Crusher 175-275t/hr	hr	0.0%	5.1%	94.9%	54.1%	45.9%	6,550.00		6.92
R0716-050	Aggregate Crusher 385-505t/hr	hr	0.0%	7.2%	92.8%	54.0%	46.0%	9,340.00		6.92
R0716-052	Aggregate Crusher 325-525t/hr	hr	0.0%	5.9%	94.1%	54.1%	45.9%	7,610.00		6.92
R0716-072	Aggregate Crusher 550-720t/hr	hr	0.0%	7.8%	92.2%	54.2%	45.8%	11,000.00		6.92
R0716-116	Aggregate Crusher 885-1160t/hr	hr	0.0%	12.1%	87.9%	53.9%	46.1%	12,500.00		6.92
4.08 Asphalt Work Equipment										
R0801-030	Asphalt Concrete Plant 30t/hr	hr	0.0%	21.8%	78.2%	53.5%	46.5%	1,000.00		3.79
R0802-025	Asphalt Paver/Finisher, 2.5m	hr	4.8%	2.8%	92.4%	52.0%	48.0%	1,610.00		5.50
R0802-040	Asphalt Paver/Finisher, 4.0m	hr	4.4%	4.0%	91.7%	52.5%	47.5%	1,820.00		5.50
R0802-047	Asphalt Paver/Finisher, 4.7m	hr	3.2%	4.3%	92.5%	53.1%	46.9%	2,420.00		5.50
R0804-030	Asphalt Distributor 3000 USG (11.000 Ltr)	day	8.3%	9.8%	81.9%	50.8%	49.2%	5,180.00		0.00
R0805-013	Asphalt Sprayer 1330 USG (5,000 Ltr)	day	8.2%	25.6%	66.2%	52.6%	47.4%	5,230.00		0.00
R0806-045	Asphalt Pavement Profiler	day	1.0%	10.6%	88.4%	55.0%	45.0%	42,300.00		0.00
R0810-025	Asphalt Repaver, 2.50-3.75m	day	0.6%	2.8%	96.6%	54.3%	45.7%	67,600.00		0.00
R0811-025	Asphalt Remixer, 2.50-3.75m	day	0.6%	2.8%	96.6%	54.3%	45.7%	68,600.00		0.00
4.09 Steel Work Equipment										
R0901-025	Welding Machine 250A	day	0.0%	39.8%	60.2%	58.6%	41.4%	588.00		0.00
R0901-050	Welding Machine 500A	day	0.0%	60.4%	39.6%	60.6%	39.4%	1,470.00		0.00
R0911-000	Bar Bender	day	0.0%	0.0%	100.0%	54.2%	45.8%	1,310.00		0.00
R0912-000	Electric Bar Cutter	day	0.0%	0.0%	100.0%	54.2%	45.8%	1,310.00		0.00
4.10 Generator, Pumps & Blowers										
R1001-015	Generator 11-15 kW	day	0.0%	21.1%	78.9%	56.6%	43.4%	883.00		0.00
R1001-020	Generator 16-20 kW	day	0.0%	20.8%	79.2%	56.4%	43.6%	1,210.00		0.00
R1001-030	Generator 21-30 kW	day	0.0%	25.9%	74.1%	57.0%	43.0%	1,460.00		0.00
R1001-040	Generator 31-40 kW	day	0.0%	31.7%	68.3%	57.9%	42.1%	1,590.00		0.00
R1001-050	Generator 41-50 kW	day	0.0%	33.9%	66.1%	57.9%	42.1%	1,860.00		0.00
R1001-100	Generator 51-100 kW	day	0.0%	46.6%	53.4%	59.3%	40.7%	2,690.00		0.00
R1001-150	Generator 101-150 kW	day	0.0%	52.2%	47.8%	59.9%	40.1%	3,610.00		0.00
R1001-200	Generator 151-200 kW	day	0.0%	47.6%	52.4%	59.4%	40.6%	5,280.00		0.00
R1001-250	Generator 201-250 kW	day	0.0%	46.5%	53.5%	59.3%	40.7%	6,750.00		0.00
R1001-300	Generator 251-300 kW	day	0.0%	47.5%	52.5%	59.4%	40.6%	7,940.00		0.00
R1001-350	Generator 301-350 kW	day	0.0%	50.3%	49.7%	59.7%	40.3%	8,750.00		0.00
R1001-400	Generator 351-400 kW	day	0.0%	49.2%	50.8%	59.4%	40.6%	10,200.00		0.00
R1002-160	Air Compressor 126-160 cfm (3.6-4.5m3/min)	day	0.0%	27.8%	72.2%	57.2%	42.8%	2,090.00		0.00
R1002-185	Air Compressor 161-185 cfm (4.6-5.2m3/min)	day	0.0%	33.4%	66.6%	57.9%	42.1%	2,390.00		0.00
R1002-250	Air Compressor 186-250 cfm (5.3-7.1m3/min)	day	0.0%	27.3%	72.7%	57.2%	42.8%	3,080.00		0.00
R1002-315	Air Compressor 251-315 cfm (7.1-8.9m3/min)	day	0.0%	31.7%	68.3%	57.8%	42.2%	3,330.00		0.00
R1002-330	Air Compressor 316-330 cfm (8.9-9.3m3/min)	day	0.0%	31.0%	69.0%	57.6%	42.4%	3,460.00		0.00
R1002-350	Air Compressor 331-350 cfm (9.4-9.9m3/min)	day	0.0%	31.9%	68.1%	57.8%	42.2%	3,710.00		0.00
R1002-450	Air Compressor 356-450 cfm (10.0-12.7m3/min)	day	0.0%	29.5%	70.5%	57.4%	42.6%	5,090.00		0.00

Item No.	Description	Unit	Unit Cost					Total (PP)	Remarks	Equipment Operation (hr/day)
			Component (%)							
			Labor	Material	Equipment	Foreign	Local			
R1002-500	Air Compressor 456-500 cfm (12.9-14.2m ³ /min)	day	0.0%	31.3%	68.7%	57.7%	42.3%	5,640.00		0.00
R1002-600	Air Compressor 501-600 cfm (14.2-17.0m ³ /min)	day	0.0%	26.8%	73.2%	57.2%	42.8%	7,650.00		0.00
R1004-051	Electric Water Pump 1 3/4 - 2 (44.5-50.8mm)	day	0.0%	10.5%	89.5%	54.0%	46.0%	114.00		0.00
R1004-102	Electric Water Pump 3 1/2 - 4 (88.9-101.6mm)	day	0.0%	27.7%	72.3%	53.1%	46.9%	195.00		0.00
R1004-203	Electric Water Pump 6 1/2 - 8 (165.1-203.2mm)	day	0.0%	32.4%	67.6%	52.9%	47.1%	481.00		0.00
R1005-132	Sump Pump 132 gal/min (500ltr/min) 10m head	day	0.0%	51.0%	49.0%	52.0%	48.0%	153.00		0.00
R1006-075	Mud Pump	day	0.0%	36.4%	63.6%	52.7%	47.3%	214.00		0.00
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump cap. 7-9	day	0.0%	0.0%	100.0%	54.3%	45.7%	658.00		0.00
R1101-002	4.11 Road Maintenance Equipment Power Broom 2m	hr	20.5%	41.8%	37.7%	47.6%	52.4%	275.00		7.60
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	11.4%	24.5%	64.1%	50.7%	49.3%	546.00		6.00
R1531-002	4.15 Miscellaneous Hammer Drill	day	0.0%	0.0%	100.0%	54.3%	45.7%	118.00		0.00
R1561-000	Chainsaw	day	0.0%	0.0%	100.0%	54.2%	45.8%	198.00		0.00

8. Labor Cost

National Holidays = 9 days/year
 Work Days/Week = 6 days/week = (7 Weekdays - Sunday)
 Annual Paid Work Days = 304 days = 365 days / 7 days x Weekly Work Days - National Holidays
 Annual Rainy Days = 50.2 days/year = Daily Precipitation of 10mm and more
 Annual Workable Days = 263 days = [(365/7)week x Weekly work days / 365] x [(365-Holidays)/365] x [1-(Annual Rainy Days/365)] x 365 days
 Minimum Daily Wage = 228.50 PP/day = for non-agriculture labors (Establishment with total assets of 30 Million Pesos or more) in Region III Province = Bulacan

Leave (Paid Holidays) 1.00 month/year
 Bonus 1.00 month/year

Basic Daily Wage = Min. Daily Wage x Labor Cost Index
 Basic Monthly Salary = (Basic Daily Wage x Annual Paid Work Days) / 12 Months
 Social Contribution Shared by Employer = National Health Insurance Program (NHIP) + Social Security System (SSS)
 Leave (Paid Holidays) = 1.00 x Basic Monthly Salary
 Bonus = 1.00 x Basic Monthly Salary
 Annual Cost Paid by Employer = (Basic Monthly Salary + Allowances + NHIP + SSS) x 12 Months + Leave + Bonus
 Daily Labor Cost for Estimate = Annual Cost Paid by Employer / Annual Workable Days

Item No.	Description	Labor Cost Index	Basic Daily Wage	Basic Monthly Salary	Allowances	Leave (Paid Holidays)	Bonus	Social Contribution Shared by Employer			Annual Cost Paid by Employer	Daily Labor Cost for Estimate
			PP/day	PP/month	0.00%	PP/year	PP/year	NHIP	SSS	Total	PP/year	PP/day
					PP/month			PP/month	PP/month	PP/month	PP/year	
L002	Foreman	1.80	411.30	10,420.00	0.00	10,420.00	10,420.00	125.00	350.00	475.00	151,580.00	576.00
L003	Operator	1.34	306.20	7,757.00	0.00	7,757.00	7,757.00	93.75	266.70	360.45	112,923.40	429.00
L004	Driver	1.17	267.30	6,772.00	0.00	6,772.00	6,772.00	81.25	233.30	314.55	98,592.60	375.00
L005	Carpenter	1.41	322.20	8,162.00	0.00	8,162.00	8,162.00	100.00	266.70	366.70	118,668.40	451.00
L006	Re-Bar Worker	1.28	292.50	7,410.00	0.00	7,410.00	7,410.00	87.50	250.00	337.50	107,790.00	410.00
L007	Masonry	1.47	335.90	8,509.00	0.00	8,509.00	8,509.00	106.25	283.30	389.55	123,800.60	471.00
L008	Blaster	1.66	379.30	9,609.00	0.00	9,609.00	9,609.00	118.75	316.70	435.45	139,751.40	531.00
L009	Welder	1.69	363.30	9,204.00	0.00	9,204.00	9,204.00	112.50	300.00	412.50	133,806.00	509.00
L010	Painter	1.40	319.90	8,104.00	0.00	8,104.00	8,104.00	100.00	266.70	366.70	117,866.40	448.00
L011	Mechanic	1.41	322.20	8,162.00	0.00	8,162.00	8,162.00	100.00	266.70	366.70	118,668.40	451.00
L012	Electrician	1.34	306.20	7,757.00	0.00	7,757.00	7,757.00	93.75	266.70	360.45	112,923.40	429.00
L019	Skilled Labor	1.28	292.50	7,410.00	0.00	7,410.00	7,410.00	87.50	250.00	337.50	107,790.00	410.00
L020	Unskilled Labor	1.00	228.50	5,789.00	0.00	5,789.00	5,789.00	68.75	200.00	268.75	84,271.00	320.00

Note) NHIP : National Health Insurance Program
 SSS : Social Security System

Minimum Wage

Source: Wage Order No. RBM-09, Effective from Jan. 16, 2002
 National Wages and Productivity Commission, Department of Labor and Employment

Sector	Bulacan	Other Province
1. Non-Agriculture		
1.a Establishment with total assets of 30 Million or more	228.50	224.50
1.b Establishment with total assets of less than 30 Million	221.00	217.00
2. Agriculture		
2.a Plantation	194.50	194.50
2.b Non-Plantation	178.50	178.50
3. Private Hospitals		
3.a Establishment with 20 or more bed capacity	215.50	215.50
3.b Establishment with less than 20 bed capacity	200.50	200.50
4. Retail/Service		
4.a Establishment with 16 or more employees	213.50	213.50
4.b Establishment with less than 16 employees	199.50	199.50
5. Cottage/Handicraft	178.50	178.50

Bypass	Province	Minimum Wage
Piari del	Bulacan	228.50
Cabanatuan	Nueva Ecija	224.50
San Jose		224.50

Social Contribution in Philippine

1) National Health Insurance Program (NHIP)
 National Health Insurance Act (Art. X, RA 7875), effective from January 1, 2002

Monthly Salary Range	Salary Base (SB)	Monthly Contribution		
		Total = PS + ES	Personal Share (PS) = SBx1.25%	Employer Share (ES) = PS
0.00	3,499.99	3,000.00	75.00	37.50
3,500.00	3,999.99	3,500.00	87.50	43.75
4,000.00	4,499.99	4,000.00	100.00	50.00
4,500.00	4,999.99	4,500.00	112.50	56.25
5,000.00	5,499.99	5,000.00	125.00	62.50
5,500.00	5,999.99	5,500.00	137.50	68.75
6,000.00	6,499.99	6,000.00	150.00	75.00
6,500.00	6,999.99	6,500.00	162.50	81.25
7,000.00	7,499.99	7,000.00	175.00	87.50
7,500.00	7,999.99	7,500.00	187.50	93.75
8,000.00	8,499.99	8,000.00	200.00	100.00
8,500.00	8,999.99	8,500.00	212.50	106.25
9,000.00	9,499.99	9,000.00	225.00	112.50
9,500.00	9,999.99	9,500.00	237.50	118.75
10,000.00	and over	10,000.00	250.00	125.00

2) Social Security System (SSS)

SSC Resolution No. 900-s2001, effective from January 1, 2002

Range of Compensation		Monthly Salary Credit	Social Security			EC	Total Contribution		
			Employer	Employee	Total	Employer	Employee	Combined	
1,000.00	1,249.99	1,000.00	50.70	33.30	84.00	10.00	60.70	33.30	94.00
1,250.00	1,749.99	1,500.00	76.00	50.00	126.00	10.00	86.00	50.00	136.00
1,750.00	2,249.99	2,000.00	101.30	66.70	168.00	10.00	111.30	66.70	178.00
2,250.00	2,749.99	2,500.00	126.70	83.30	210.00	10.00	136.70	83.30	220.00
2,750.00	3,249.99	3,000.00	152.00	100.00	252.00	10.00	162.00	100.00	262.00
3,250.00	3,749.99	3,500.00	177.30	116.70	294.00	10.00	187.30	116.70	304.00
3,750.00	4,249.99	4,000.00	202.70	133.30	336.00	10.00	212.70	133.30	346.00
4,250.00	4,749.99	4,500.00	228.00	150.00	378.00	10.00	238.00	150.00	388.00
4,750.00	5,249.99	5,000.00	253.30	166.70	420.00	10.00	263.30	166.70	430.00
5,250.00	5,749.99	5,500.00	278.70	183.30	462.00	10.00	288.70	183.30	472.00
5,750.00	6,249.99	6,000.00	304.00	200.00	504.00	10.00	314.00	200.00	514.00
6,250.00	6,749.99	6,500.00	329.30	216.70	546.00	10.00	339.30	216.70	556.00
6,750.00	7,249.99	7,000.00	354.70	233.30	588.00	10.00	364.70	233.30	598.00
7,250.00	7,749.99	7,500.00	380.00	250.00	630.00	10.00	390.00	250.00	640.00
7,750.00	8,249.99	8,000.00	405.30	266.70	672.00	10.00	415.30	266.70	682.00
8,250.00	8,749.99	8,500.00	430.70	283.30	714.00	10.00	440.70	283.30	724.00
8,750.00	9,249.99	9,000.00	456.00	300.00	756.00	10.00	466.00	300.00	766.00
9,250.00	9,749.99	9,500.00	481.30	316.70	798.00	10.00	491.30	316.70	808.00
9,750.00	10,249.99	10,000.00	506.70	333.30	840.00	10.00	516.70	333.30	850.00
10,250.00	10,749.99	10,500.00	532.00	350.00	882.00	10.00	542.00	350.00	892.00
10,750.00	11,249.99	11,000.00	557.30	366.70	924.00	10.00	567.30	366.70	934.00
11,250.00	11,749.99	11,500.00	582.70	383.30	966.00	10.00	592.70	383.30	976.00
11,750.00	12,249.99	12,000.00	608.00	400.00	1,008.00	10.00	618.00	400.00	1,018.00
12,250.00	12,749.99	12,500.00	633.30	416.70	1,050.00	10.00	643.30	416.70	1,060.00
12,750.00	13,249.99	13,000.00	658.70	433.30	1,092.00	10.00	668.70	433.30	1,102.00
13,250.00	13,749.99	13,500.00	684.00	450.00	1,134.00	10.00	694.00	450.00	1,144.00
13,750.00	14,249.99	14,000.00	709.30	466.70	1,176.00	10.00	719.30	466.70	1,186.00
14,250.00	14,749.99	14,500.00	734.70	483.30	1,218.00	10.00	744.70	483.30	1,228.00
14,750.00	over	15,000.00	760.00	500.00	1,260.00	10.00	770.00	500.00	1,270.00

Note) EC = Employee Compensation Contribution

9. Material Cost

Exchange Rate IUS\$ = 52.28 PP = 120.12 yen

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax (%)	Value Added Tax (%)	Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks	
									Foreign (%)	Local (%)	Tax (%)					
1. Fuel																
MO1005	Diesel Oil	ltr	12.10	7.87	2.35	10.0%	0.79	10.0%	1.10	12.10	65.0%	35.0%	15.6%	7.87	4.24	1.89
MO1006	Gasoline	ltr	14.20	9.23	2.76	10.0%	0.92	10.0%	1.29	14.20	65.0%	35.0%	15.6%	9.23	4.97	2.21
MO1007	Heavy Oil	ltr	9.77	6.35	1.90	10.0%	0.64	10.0%	0.89	9.77	65.0%	35.0%	15.6%	6.35	3.42	1.52
MO1008	Lubricant	ltr	43.10	28.02	8.37	10.0%	2.80	10.0%	3.92	43.10	65.0%	35.0%	15.6%	28.02	15.09	6.72
MO1009	Electric Supply	kWh	4.00	2.00	1.44	10.0%	0.20	10.0%	0.36	4.00	50.0%	50.0%	14.1%	2.00	2.00	0.56
MO1010	Water Supply	m3	66.20	6.62	52.90	10.0%	0.66	10.0%	6.02	66.20	10.0%	90.0%	10.1%	6.62	59.58	6.68
MO1015	Telecommunication Fare	min	1.00	0.45	0.41	10.0%	0.05	10.0%	0.09	1.00	45.0%	55.0%	13.6%	0.45	0.55	0.14
MO1020	Propane Gas	kg	32.60	16.30	11.71	10.0%	1.63	10.0%	2.96	32.60	50.0%	50.0%	14.1%	16.30	16.30	4.59
2. Steel																
MO2001	Reinforcing Bars, Grade 40	kg	16.00	10.40	3.11	10.0%	1.04	10.0%	1.45	16.00	65.0%	35.0%	15.6%	10.40	5.60	2.49
MO2002	Reinforcing Bars, Grade 60	kg	17.00	11.05	3.30	10.0%	1.11	10.0%	1.55	17.00	65.0%	35.0%	15.6%	11.05	5.95	2.65
MO2011	Structural Steel (Round Bar, SS400)	kg	21.80	15.26	3.03	10.0%	1.53	10.0%	1.98	21.80	70.0%	30.0%	16.1%	15.26	6.54	3.51
MO2012	Structural Steel (Flat Bar, SS400)	kg	22.70	15.89	3.16	10.0%	1.59	10.0%	2.06	22.70	70.0%	30.0%	16.1%	15.89	6.81	3.65
MO2013	Structural Steel (H-Shape, SS400)	kg	17.60	12.32	2.45	10.0%	1.23	10.0%	1.60	17.60	70.0%	30.0%	16.1%	12.32	5.28	2.83
MO2014	Structural Steel (Shapes, SS400)	kg	17.60	12.32	2.45	10.0%	1.23	10.0%	1.60	17.60	70.0%	30.0%	16.1%	12.32	5.28	2.83
MO2015	Structural Steel (Plates, SS400)	kg	20.20	14.14	2.81	10.0%	1.41	10.0%	1.84	20.20	70.0%	30.0%	16.1%	14.14	6.06	3.25
MO2016	Structural Steel (Plates SMA400W)	kg	39.00	29.25	3.28	10.0%	2.93	10.0%	3.55	39.00	75.0%	25.0%	16.6%	29.25	9.75	6.47
MO2017	Structural Steel (Plates SMA490W)	kg	45.00	33.75	3.78	10.0%	3.38	10.0%	4.09	45.00	75.0%	25.0%	16.6%	33.75	11.25	7.47
MO2018	Structural Steel (Plates SMA570W)	kg	62.50	46.88	5.26	10.0%	4.69	10.0%	5.68	62.50	75.0%	25.0%	16.6%	46.88	15.63	10.37
MO2031	Steel Pipe	kg	23.90	16.73	3.32	10.0%	1.67	10.0%	2.17	23.90	70.0%	30.0%	16.1%	16.73	7.17	3.85
MO2041	Steel Sheet Pile	kg	32.10	22.47	4.46	10.0%	2.25	10.0%	2.92	32.10	70.0%	30.0%	16.1%	22.47	9.63	5.17
MO2061	Chain Link Wire Net	m2	168.00	117.60	23.37	10.0%	11.76	10.0%	15.27	168.00	70.0%	30.0%	16.1%	117.60	50.40	27.03
MO2062	Barbed Wire	m	2.50	0.88	1.31	10.0%	0.09	10.0%	0.23	2.50	35.0%	65.0%	12.6%	0.88	1.63	0.31
MO2071	High Tension Bolt M16	each	18.50	12.95	2.57	10.0%	1.30	10.0%	1.68	18.50	70.0%	30.0%	16.1%	12.95	5.55	2.98
MO2072	High Tension Bolt M20	each	29.20	20.44	4.06	10.0%	2.04	10.0%	2.65	29.20	70.0%	30.0%	16.1%	20.44	8.76	4.70
MO2073	High Tension Bolt M22	each	42.20	29.54	5.87	10.0%	2.95	10.0%	3.84	42.20	70.0%	30.0%	16.1%	29.54	12.66	6.79
MO2074	High Tension Bolt M24	each	62.70	43.89	8.72	10.0%	4.39	10.0%	5.70	62.70	70.0%	30.0%	16.1%	43.89	18.81	10.09
MO2301	Bolt M12x40	each	4.18	2.93	0.58	10.0%	0.29	10.0%	0.38	4.18	70.0%	30.0%	16.1%	2.93	1.25	0.67
MO2351	Bolt M16x50	each	7.83	5.48	1.09	10.0%	0.55	10.0%	0.71	7.83	70.0%	30.0%	16.1%	5.48	2.35	1.26
MO2359	Bolt M16x150	each	18.70	13.09	2.60	10.0%	1.31	10.0%	1.70	18.70	70.0%	30.0%	16.1%	13.09	5.61	3.01
MO2410	Bolt M20x140	each	28.20	19.74	3.92	10.0%	1.97	10.0%	2.56	28.20	70.0%	30.0%	16.1%	19.74	8.46	4.54
MO2501	Brass Plate	kg	228.00	159.60	31.71	10.0%	15.96	10.0%	20.73	228.00	70.0%	30.0%	16.1%	159.60	68.40	36.69
MO2511	Stainless Plate	kg	135.00	94.50	18.78	10.0%	9.45	10.0%	12.27	135.00	70.0%	30.0%	16.1%	94.50	40.50	21.72
3. Aggregate, Concrete																
MO3001	Quarry Royalty (Borrow Soil)	m3	15.00	0.00	13.64	10.0%	0.00	10.0%	1.36	15.00	0.0%	100.0%	9.1%	0.00	15.00	1.36
MO3002	Quarry Royalty (Sand, Pebbles)	m3	15.00	0.00	13.64	10.0%	0.00	10.0%	1.36	15.00	0.0%	100.0%	9.1%	0.00	15.00	1.36
MO3003	Quarry Royalty (Aggregate)	m3	15.00	0.00	13.64	10.0%	0.00	10.0%	1.36	15.00	0.0%	100.0%	9.1%	0.00	15.00	1.36
MO3004	Quarry Royalty (Gravel/Stone)	m3	15.00	0.00	13.64	10.0%	0.00	10.0%	1.36	15.00	0.0%	100.0%	9.1%	0.00	15.00	1.36
MO3011	Portland Cement, ordinary	t	3,375.00	2,025.00	840.68	10.0%	202.50	10.0%	306.82	3,375.00	60.0%	40.0%	15.1%	2,025.00	1,350.00	509.32
MO3401	Admixture	kg	118.00	82.60	16.41	10.0%	8.26	10.0%	10.73	118.00	70.0%	30.0%	16.1%	82.60	35.40	18.99
MO3402	Non-shrink Admixture	kg	392.00	274.40	54.52	10.0%	27.44	10.0%	35.64	392.00	70.0%	30.0%	16.1%	274.40	117.60	63.08
4. Wood																
MO4001	Lumber	m3	14,800.00	1,480.00	11,826.55	10.0%	148.00	10.0%	1,345.45	14,800.00	10.0%	90.0%	10.1%	1,480.00	13,320.00	1,493.45
MO4011	Plywood, 6x1200x2400	m2	80.00	8.00	63.93	10.0%	0.80	10.0%	7.27	80.00	10.0%	90.0%	10.1%	8.00	72.00	8.07
5. Temporary Material																
MO5001	Formwork Lumber, use 4 times	m3	3,700.00	185.00	3,160.14	10.0%	18.50	10.0%	336.36	3,700.00	5.0%	95.0%	9.6%	185.00	3,515.00	354.86

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax			Value Added Tax		Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks
						%	(PP)	%	(PP)	%		Local (%)	Tax (%)					
														Foreign (%)				
M05002	Formwork, Plywood 6x1200x2400, use 3 times	m2	27.00	1.35	23.06	10.0%	0.14	10.0%	2.45	27.00	5.0%	95.0%	9.6%	1.35	25.65	2.59		
M05031	Temporary Sheet Pile Depreciation	t-d	33.30	16.65	11.96	10.0%	1.67	10.0%	3.03	33.30	50.0%	50.0%	14.1%	16.65	16.65	4.69		
M05041	Temporary Steel Shapes Depreciation	t-d	31.30	15.65	11.24	10.0%	1.57	10.0%	2.85	31.30	50.0%	50.0%	14.1%	15.65	15.65	4.41		
M05051	Temporary Deck Plate Depreciation	m2-d	11.10	5.55	3.99	10.0%	0.56	10.0%	1.01	11.10	50.0%	50.0%	14.1%	5.55	5.55	1.56		
M05055	Temporary Pipe Railing Depreciation	m-d	1.33	0.67	0.48	10.0%	0.07	10.0%	0.12	1.33	50.0%	50.0%	14.1%	0.67	0.67	0.19		
M05061	Temporary Frame Support (Portal 914x1700)	day	1.53	0.77	0.55	10.0%	0.08	10.0%	0.14	1.53	50.0%	50.0%	14.1%	0.77	0.77	0.22		
M05062	Temporary Frame Support (Portal 1219x1700)	day	1.65	0.83	0.59	10.0%	0.08	10.0%	0.15	1.65	50.0%	50.0%	14.1%	0.83	0.83	0.23		
M05063	Temporary Frame Support (Portal 1219x1829)	day	2.31	1.16	0.83	10.0%	0.12	10.0%	0.21	2.31	50.0%	50.0%	14.1%	1.16	1.16	0.33		
M05064	Temporary Frame Support (bracing 914 x 1219)	day	0.59	0.30	0.21	10.0%	0.03	10.0%	0.05	0.59	50.0%	50.0%	14.1%	0.30	0.30	0.08		
M05065	Temporary Frame Support (bracing 1219 x 1219)	day	0.59	0.30	0.21	10.0%	0.03	10.0%	0.05	0.59	50.0%	50.0%	14.1%	0.30	0.30	0.08		
M05066	Temporary Frame Support (bracing 1829 x 1219)	day	0.59	0.30	0.21	10.0%	0.03	10.0%	0.05	0.59	50.0%	50.0%	14.1%	0.30	0.30	0.08		
6. Paint & Adhesive																		
M06001	Etching Primer for Steel	kg	274.00	178.10	53.18	10.0%	17.81	10.0%	24.91	274.00	65.0%	35.0%	15.6%	178.10	95.90	42.72		
M06003	Zinc Rich Primer for Steel	kg	374.00	243.10	72.59	10.0%	24.31	10.0%	34.00	374.00	65.0%	35.0%	15.6%	243.10	130.90	58.31		
M06011	Rustproof Lead Paint for Steel	kg	209.00	135.85	40.57	10.0%	13.59	10.0%	19.00	209.00	65.0%	35.0%	15.6%	135.85	73.15	32.59		
M06020	Silicon Alkyd Resin Paint for Steel	kg	250.00	162.50	48.52	10.0%	16.25	10.0%	22.73	250.00	65.0%	35.0%	15.6%	162.50	87.50	38.98		
M06021	Phenol Resin Paint for Steel	kg	272.00	176.80	52.79	10.0%	17.68	10.0%	24.73	272.00	65.0%	35.0%	15.6%	176.80	95.20	42.41		
M06022	Epoxy Resin Paint for Steel	kg	496.00	322.40	96.27	10.0%	32.24	10.0%	45.09	496.00	65.0%	35.0%	15.6%	322.40	173.60	77.33		
M06031	Emulsion Paint	kg	79.30	51.55	15.39	10.0%	5.15	10.0%	7.21	79.30	65.0%	35.0%	15.6%	51.55	27.76	12.36		
M06032	Polyvinyl Enamel Paint	kg	79.30	51.55	15.39	10.0%	5.15	10.0%	7.21	79.30	65.0%	35.0%	15.6%	51.55	27.76	12.36		
M06041	Road marking paint (White, solution type with glass beads 15~18%)	kg	62.70	40.76	12.17	10.0%	4.08	10.0%	5.70	62.70	65.0%	35.0%	15.6%	40.76	21.95	9.78		
M06042	Road marking paint (Yellow, solution type with glass beads 15~18%)	kg	64.60	41.99	12.54	10.0%	4.20	10.0%	5.87	64.60	65.0%	35.0%	15.6%	41.99	22.61	10.07		
7. Road Material																		
M07011	Prime Coat	t	22,635.00	14,712.75	4,393.25	10.0%	1,471.28	10.0%	2,057.73	22,635.00	65.0%	35.0%	15.6%	14,712.75	7,922.25	3,529.00		
M07012	Tack Coat	t	22,635.00	14,712.75	4,393.25	10.0%	1,471.28	10.0%	2,057.73	22,635.00	65.0%	35.0%	15.6%	14,712.75	7,922.25	3,529.00		
M07021	Asphalt Mixture	t	2,500.00	1,625.00	485.23	10.0%	162.50	10.0%	227.27	2,500.00	65.0%	35.0%	15.6%	1,625.00	875.00	389.77		
M07051	Rubberized Asphalt Agent	kg	24.40	15.86	4.74	10.0%	1.59	10.0%	2.22	24.40	65.0%	35.0%	15.6%	15.86	8.54	3.80		
M07052	Rubberized Asphalt	kg	18.70	12.16	3.63	10.0%	1.22	10.0%	1.70	18.70	65.0%	35.0%	15.6%	12.16	6.55	2.92		
M07101	Joint Filler (bituminous t=10mm)	m2	286.00	171.60	71.24	10.0%	17.16	10.0%	26.00	286.00	60.0%	40.0%	15.1%	171.60	114.40	43.16		
M07102	Joint Filler (bituminous t=12mm)	m2	343.00	205.80	85.44	10.0%	20.58	10.0%	31.18	343.00	60.0%	40.0%	15.1%	205.80	137.20	51.76		
M07103	Joint Filler (bituminous t=18mm)	m2	514.00	308.40	128.03	10.0%	30.84	10.0%	46.73	514.00	60.0%	40.0%	15.1%	308.40	205.60	77.57		
M07104	Joint Filler (bituminous t=20mm)	m2	571.00	342.60	142.23	10.0%	34.26	10.0%	51.91	571.00	60.0%	40.0%	15.1%	342.60	228.40	86.17		
M07107	Joint Filler (rubber foam t=20mm)	m2	1,500.00	900.00	373.64	10.0%	90.00	10.0%	136.36	1,500.00	60.0%	40.0%	15.1%	900.00	600.00	226.36		
M07111	Joint Sealant (10x10mm)	m	62.70	37.62	15.62	10.0%	3.76	10.0%	5.70	62.70	60.0%	40.0%	15.1%	37.62	25.08	9.46		
M07112	Joint Sealant (12x12mm)	m	75.20	45.12	18.73	10.0%	4.51	10.0%	6.84	75.20	60.0%	40.0%	15.1%	45.12	30.08	11.35		
M07113	Joint Sealant (18x18mm)	m	103.00	61.80	25.66	10.0%	6.18	10.0%	9.36	103.00	60.0%	40.0%	15.1%	61.80	41.20	15.54		
M07114	Joint Sealant (20x20mm)	m	115.00	69.00	28.65	10.0%	6.90	10.0%	10.45	115.00	60.0%	40.0%	15.1%	69.00	46.00	17.35		
M07117	Joint Sealant (liquid type)	kg	96.20	57.72	23.96	10.0%	5.77	10.0%	8.75	96.20	60.0%	40.0%	15.1%	57.72	38.48	14.52		
M07201	Traffic Sign Board (aluminum)	m2	13,800.00	8,970.00	2,678.45	10.0%	897.00	10.0%	1,254.55	13,800.00	65.0%	35.0%	15.6%	8,970.00	4,830.00	2,151.55		
M07271	Pedestrian Signal Lights (2 lamps)	set	47,400.00	26,070.00	14,413.91	10.0%	2,607.00	10.0%	4,309.09	47,400.00	55.0%	45.0%	14.6%	26,070.00	21,330.00	6,916.09		
M07272	Traffic Signal Lights (3 lamps)	set	99,900.00	54,945.00	30,378.68	10.0%	5,494.50	10.0%	9,081.82	99,900.00	55.0%	45.0%	14.6%	54,945.00	44,955.00	14,576.32		
M07273	Traffic Signal Lights (6 lamps)	set	186,000.00	102,300.00	56,560.91	10.0%	10,230.00	10.0%	16,909.09	186,000.00	55.0%	45.0%	14.6%	102,300.00	83,700.00	27,139.09		
M07401	ReflectORIZED Pavement Stud (one side reflective)	each	717.00	430.20	178.60	10.0%	43.02	10.0%	65.18	717.00	60.0%	40.0%	15.1%	430.20	286.80	108.20		

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax (%)	Value Added Tax (%)	Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks	
									Foreign (%)	Local (%)	Tax (%)					
M07402	ReflectORIZED Pavement Stud (two sides reflective)	each	776.00	465.60	193.29	10.0%	46.56	10.0%	776.00	60.0%	40.0%	15.1%	465.60	310.40	117.11	
M07405	Chatter Bar	each	1,740.00	1,044.00	433.42	10.0%	104.40	10.0%	1,740.00	60.0%	40.0%	15.1%	1,044.00	696.00	262.58	
M07501	Delineator, Type A (ground standing type)	each	1,450.00	870.00	361.18	10.0%	87.00	10.0%	1,450.00	60.0%	40.0%	15.1%	870.00	580.00	218.82	
M07502	Delineator, Type B (on concrete)	each	1,360.00	816.00	338.76	10.0%	81.60	10.0%	1,360.00	60.0%	40.0%	15.1%	816.00	544.00	205.24	
M07503	Delineator, Type C (on guardrail)	each	564.00	338.40	140.49	10.0%	33.84	10.0%	564.00	60.0%	40.0%	15.1%	338.40	225.60	85.11	
M07601	Road Curve Mirror φ600	each	11,000.00	6,600.00	2,740.00	10.0%	660.00	10.0%	11,000.00	60.0%	40.0%	15.1%	6,600.00	4,400.00	1,660.00	
M07701	Removable Traffic Barrier	each	627.00	313.50	225.15	10.0%	31.35	10.0%	627.00	50.0%	50.0%	14.1%	313.50	313.50	88.35	
8. Water Supply & Drainage Material																
M08301	PVC Pipe, φ40	m	46.70	23.35	16.77	10.0%	2.34	10.0%	46.70	50.0%	50.0%	14.1%	23.35	23.35	6.58	
M08302	PVC Pipe, φ50	m	66.70	33.35	23.95	10.0%	3.34	10.0%	66.70	50.0%	50.0%	14.1%	33.35	33.35	9.40	
M08303	PVC Pipe, φ65	m	93.00	46.50	33.40	10.0%	4.65	10.0%	93.00	50.0%	50.0%	14.1%	46.50	46.50	13.10	
M08304	PVC Pipe, φ75	m	183.00	91.50	65.71	10.0%	9.15	10.0%	183.00	50.0%	50.0%	14.1%	91.50	91.50	25.79	
M08310	PVC Pipe, φ100	m	200.00	100.00	71.82	10.0%	10.00	10.0%	200.00	50.0%	50.0%	14.1%	100.00	100.00	28.18	
M08315	PVC Pipe, φ150	m	432.00	216.00	155.13	10.0%	21.60	10.0%	432.00	50.0%	50.0%	14.1%	216.00	216.00	60.87	
M08320	PVC Pipe, φ200	m	713.00	356.50	256.03	10.0%	35.65	10.0%	713.00	50.0%	50.0%	14.1%	356.50	356.50	100.47	
M08700	Steel Gas Pipe, φ20	m	76.70	46.02	19.11	10.0%	4.60	10.0%	76.70	60.0%	40.0%	15.1%	46.02	30.68	11.57	
M08701	Steel Gas Pipe, φ25	m	117.00	70.20	29.14	10.0%	7.02	10.0%	117.00	60.0%	40.0%	15.1%	70.20	46.80	17.66	
M08702	Steel Gas Pipe, φ32	m	142.00	85.20	35.37	10.0%	8.52	10.0%	142.00	60.0%	40.0%	15.1%	85.20	56.80	21.43	
M08703	Steel Gas Pipe, φ40	m	167.00	100.20	41.60	10.0%	10.02	10.0%	167.00	60.0%	40.0%	15.1%	100.20	66.80	25.20	
M08704	Steel Gas Pipe, φ50	m	217.00	130.20	54.05	10.0%	13.02	10.0%	217.00	60.0%	40.0%	15.1%	130.20	86.80	32.75	
M08705	Steel Gas Pipe, φ65	m	251.00	150.60	62.52	10.0%	15.06	10.0%	251.00	60.0%	40.0%	15.1%	150.60	100.40	37.88	
M08706	Steel Gas Pipe, φ80	m	294.00	176.40	73.23	10.0%	17.64	10.0%	294.00	60.0%	40.0%	15.1%	176.40	117.60	44.37	
M08707	Steel Gas Pipe, φ100	m	410.00	246.00	102.13	10.0%	24.60	10.0%	410.00	60.0%	40.0%	15.1%	246.00	164.00	61.87	
M08708	Steel Gas Pipe, φ125	m	503.00	301.80	125.29	10.0%	30.18	10.0%	503.00	60.0%	40.0%	15.1%	301.80	201.20	75.91	
M08709	Steel Gas Pipe, φ150	m	707.00	424.20	176.11	10.0%	42.42	10.0%	707.00	60.0%	40.0%	15.1%	424.20	282.80	106.69	
M08710	Steel Gas Pipe, φ200	m	1,080.00	648.00	269.02	10.0%	64.80	10.0%	1,080.00	60.0%	40.0%	15.1%	648.00	432.00	162.98	
9. Bridge, River, Marine Material																
M09001	Laminated Elastomeric Bearing Pad (400x300x50mm)	each	11,000.00	7,150.00	2,135.00	10.0%	715.00	10.0%	11,000.00	65.0%	35.0%	15.6%	7,150.00	3,850.00	1,715.00	
M09002	Laminated Elastomeric Bearing Pad (600x300x50mm)	each	15,800.00	10,270.00	3,066.64	10.0%	1,027.00	10.0%	15,800.00	65.0%	35.0%	15.6%	10,270.00	5,530.00	2,463.36	
M09003	Laminated Elastomeric Bearing Pad (600x350x50mm)	each	18,400.00	11,960.00	3,571.27	10.0%	1,196.00	10.0%	18,400.00	65.0%	35.0%	15.6%	11,960.00	6,440.00	2,868.73	
M09004	Laminated Elastomeric Bearing Pad (600x700x89mm)	each	66,600.00	43,290.00	12,926.45	10.0%	4,329.00	10.0%	66,600.00	65.0%	35.0%	15.6%	43,290.00	23,310.00	10,383.55	
M09005	Laminated Elastomeric Bearing Pad (600x400x50mm)	each	25,300.00	16,445.00	4,910.50	10.0%	1,644.50	10.0%	25,300.00	65.0%	35.0%	15.6%	16,445.00	8,855.00	3,944.50	
M09006	Laminated Elastomeric Bearing Pad (450x300x60mm)	each	14,200.00	9,230.00	2,756.09	10.0%	923.00	10.0%	14,200.00	65.0%	35.0%	15.6%	9,230.00	4,970.00	2,213.91	
M09007	Laminated Elastomeric Bearing Pad (550x300x50mm)	each	14,500.00	9,425.00	2,814.32	10.0%	942.50	10.0%	14,500.00	65.0%	35.0%	15.6%	9,425.00	5,075.00	2,260.68	
M09008	Laminated Elastomeric Bearing Pad (500x400x80mm)	each	21,100.00	13,715.00	4,095.32	10.0%	1,371.50	10.0%	21,100.00	65.0%	35.0%	15.6%	13,715.00	7,385.00	3,289.68	
M09011	Elastomeric Pad (t=25mm)	m2	12,800.00	8,320.00	2,484.36	10.0%	832.00	10.0%	12,800.00	65.0%	35.0%	15.6%	8,320.00	4,480.00	1,995.64	
M09012	Elastomeric Pad (t=40mm)	m2	20,500.00	13,325.00	3,978.86	10.0%	1,332.50	10.0%	20,500.00	65.0%	35.0%	15.6%	13,325.00	7,175.00	3,196.14	
M09013	Elastomeric Pad (t=50mm)	m2	25,700.00	16,705.00	4,988.14	10.0%	1,670.50	10.0%	25,700.00	65.0%	35.0%	15.6%	16,705.00	8,995.00	4,006.86	
M09104	Bearing Shoe (rubber enclosed type), 250t	each	291,000.00	203,700.00	40,475.45	10.0%	20,370.00	10.0%	291,000.00	70.0%	30.0%	16.1%	203,700.00	87,300.00	46,824.55	
M09106	Bearing Shoe (rubber enclosed type), 650t	each	764,000.00	534,800.00	106,265.45	10.0%	53,480.00	10.0%	764,000.00	70.0%	30.0%	16.1%	534,800.00	229,200.00	122,934.55	

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax			Value Added Tax			Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks
						(%)	(PP)	(%)	(PP)	(%)	(PP)		Foreign	Local	Tax				
													(%)	(%)	(%)				
M09108	Bearing Shoe (rubber enclosed type), 650t	each	764,000.00	534,800.00	106,265.45	10.0%	53,480.00	10.0%	69,454.55	764,000.00	70.0%	30.0%	16.1%	534,800.00	229,200.00	122,934.55			
M09197	Expansion Joint, Multiflex 35	m	21,700.00	14,105.00	4,211.77	10.0%	1,410.50	10.0%	1,972.73	21,700.00	65.0%	35.0%	15.6%	14,105.00	7,595.00	3,383.23			
M09198	Expansion Joint, Multiflex 50	m	39,200.00	25,480.00	7,608.36	10.0%	2,548.00	10.0%	3,563.64	39,200.00	65.0%	35.0%	15.6%	25,480.00	13,720.00	6,111.64			
M09199	Expansion Joint, Multiflex 70	m	56,400.00	36,660.00	10,946.73	10.0%	3,666.00	10.0%	5,127.27	56,400.00	65.0%	35.0%	15.6%	36,660.00	19,740.00	8,793.27			
M09200	Expansion Joint, Multiflex 80	m	64,600.00	41,990.00	12,538.27	10.0%	4,199.00	10.0%	5,872.73	64,600.00	65.0%	35.0%	15.6%	41,990.00	22,610.00	10,071.73			
M09201	Expansion Joint, Multiflex 100	m	74,400.00	48,360.00	14,440.36	10.0%	4,836.00	10.0%	6,763.64	74,400.00	65.0%	35.0%	15.6%	48,360.00	26,040.00	11,599.64			
M09202	Expansion Joint, Multiflex 140	m	93,800.00	60,970.00	18,205.73	10.0%	6,097.00	10.0%	8,527.27	93,800.00	65.0%	35.0%	15.6%	60,970.00	32,830.00	14,624.27			
M09203	Expansion Joint, Multiflex 160	m	107,000.00	69,550.00	20,767.73	10.0%	6,955.00	10.0%	9,727.27	107,000.00	65.0%	35.0%	15.6%	69,550.00	37,450.00	16,682.27			
M09204	Expansion Joint, Multiflex 200	m	122,000.00	79,300.00	23,679.09	10.0%	7,930.00	10.0%	11,090.91	122,000.00	65.0%	35.0%	15.6%	79,300.00	42,700.00	19,020.91			
M09205	Expansion Joint, Multiflex 230	m	141,000.00	91,650.00	27,366.82	10.0%	9,165.00	10.0%	12,818.18	141,000.00	65.0%	35.0%	15.6%	91,650.00	49,350.00	21,983.18			
M09206	Expansion Joint, Multiflex 330	m	250,000.00	162,500.00	48,522.73	10.0%	16,250.00	10.0%	22,727.27	250,000.00	65.0%	35.0%	15.6%	162,500.00	87,500.00	38,977.27			
M09305	PC Strand, T12.4	kg	110.00	77.00	15.30	10.0%	7.70	10.0%	10.00	110.00	70.0%	30.0%	16.1%	77.00	33.00	17.70			
M09306	PC Strand, T12.7	kg	113.00	79.10	15.72	10.0%	7.91	10.0%	10.27	113.00	70.0%	30.0%	16.1%	79.10	33.90	18.18			
M09307	PC Strand, T15.2	kg	119.00	83.30	16.55	10.0%	8.33	10.0%	10.82	119.00	70.0%	30.0%	16.1%	83.30	35.70	19.15			
M09313	PC Tendon, φ32	kg	136.00	95.20	18.92	10.0%	9.52	10.0%	12.36	136.00	70.0%	30.0%	16.1%	95.20	40.80	21.88			
M09322	PC Sheath, φ28	m	52.20	33.93	10.13	10.0%	3.39	10.0%	4.75	52.20	65.0%	35.0%	15.6%	33.93	18.27	8.14			
M09331	PC Sheath, φ60	m	115.00	74.75	22.32	10.0%	7.48	10.0%	10.45	115.00	65.0%	35.0%	15.6%	74.75	40.25	17.93			
M09332	PC Sheath, φ65	m	123.00	79.95	23.87	10.0%	8.00	10.0%	11.18	123.00	65.0%	35.0%	15.6%	79.95	43.05	19.18			
M09333	PC Sheath, φ70	m	134.00	87.10	26.01	10.0%	8.71	10.0%	12.18	134.00	65.0%	35.0%	15.6%	87.10	46.90	20.89			
M09334	PC Sheath, φ75	m	150.00	97.50	29.11	10.0%	9.75	10.0%	13.64	150.00	65.0%	35.0%	15.6%	97.50	52.50	23.39			
M09344	PC Anchorage, 110, 130t 7T13M (T)	set	5,030.00	3,772.50	422.98	10.0%	377.25	10.0%	457.27	5,030.00	75.0%	25.0%	16.6%	3,772.50	1,257.50	834.52			
M09345	PC Anchorage, 130, 150t 8T13M (T)	set	5,790.00	4,342.50	486.89	10.0%	434.25	10.0%	526.36	5,790.00	75.0%	25.0%	16.6%	4,342.50	1,447.50	960.61			
M09346	PC Anchorage 195, 225t 12T13M (T)	set	8,040.00	6,030.00	676.09	10.0%	603.00	10.0%	730.91	8,040.00	75.0%	25.0%	16.6%	6,030.00	2,010.00	1,333.91			
M09348	PC Anchorage 30t 1T15.2 (T)	set	828.00	621.00	69.63	10.0%	62.10	10.0%	75.27	828.00	75.0%	25.0%	16.6%	621.00	207.00	137.37			
M09354	PC Anchorage φ32 (T)	set	1,250.00	937.50	105.11	10.0%	93.75	10.0%	113.64	1,250.00	75.0%	25.0%	16.6%	937.50	312.50	207.39			
M09364	PC Anchorage 110, 130t 7T13E (F)	set	7,330.00	5,497.50	616.39	10.0%	549.75	10.0%	666.36	7,330.00	75.0%	25.0%	16.6%	5,497.50	1,832.50	1,216.11			
M09365	PC Anchorage 130, 150t 8T13E (F)	set	7,950.00	5,962.50	668.52	10.0%	596.25	10.0%	722.73	7,950.00	75.0%	25.0%	16.6%	5,962.50	1,987.50	1,318.98			
M09366	PC Anchorage 195, 225t 12T13E (F)	set	10,600.00	7,950.00	891.36	10.0%	795.00	10.0%	963.64	10,600.00	75.0%	25.0%	16.6%	7,950.00	2,650.00	1,758.64			
M09368	PC Anchorage 30t 1T15.2 (F)	set	1,070.00	802.50	89.98	10.0%	80.25	10.0%	97.27	1,070.00	75.0%	25.0%	16.6%	802.50	267.50	177.52			
M09374	PC Anchorage φ32 (F)	set	1,520.00	1,140.00	127.82	10.0%	114.00	10.0%	138.18	1,520.00	75.0%	25.0%	16.6%	1,140.00	380.00	252.18			
M09602	Gabion Cage 500x1000x2000	each	710.00	213.00	411.15	10.0%	21.30	10.0%	64.55	710.00	30.0%	70.0%	12.1%	213.00	497.00	85.85			
M09605	Gabion Mat Cage H=300mm	m2	617.00	185.10	357.30	10.0%	18.51	10.0%	56.09	617.00	30.0%	70.0%	12.1%	185.10	431.90	74.60			
10. Common Material																			
M10201	Waterproofing sheet	m2	460.00	276.00	114.58	10.0%	27.60	10.0%	41.82	460.00	60.0%	40.0%	15.1%	276.00	184.00	69.42			
M10202	Filter Cloth	m2	82.30	49.38	20.50	10.0%	4.94	10.0%	7.48	82.30	60.0%	40.0%	15.1%	49.38	32.92	12.42			
M10211	Waterstop	m	282.00	169.20	70.24	10.0%	16.92	10.0%	25.64	282.00	60.0%	40.0%	15.1%	169.20	112.80	42.56			
M10301	Styrofoam	m3	5,180.00	3,108.00	1,290.29	10.0%	310.80	10.0%	470.91	5,180.00	60.0%	40.0%	15.1%	3,108.00	2,072.00	781.71			
11. Landscaping Material																			
M11001	Tree H=0.5m	each	110.00	7.70	91.53	10.0%	0.77	10.0%	10.00	110.00	7.0%	93.0%	9.8%	7.70	102.30	10.77			
M11002	Tree H=1m	each	215.00	15.05	178.90	10.0%	1.51	10.0%	19.55	215.00	7.0%	93.0%	9.8%	15.05	199.95	21.05			
M11003	Tree H=1.5m	each	503.00	35.21	418.54	10.0%	3.52	10.0%	45.73	503.00	7.0%	93.0%	9.8%	35.21	467.79	49.25			
M11004	Tree H=2m	each	838.00	58.66	697.29	10.0%	5.87	10.0%	76.18	838.00	7.0%	93.0%	9.8%	58.66	779.34	82.05			
M11005	Tree H=2.5m	each	1,270.00	88.90	1,056.76	10.0%	8.89	10.0%	115.45	1,270.00	7.0%	93.0%	9.8%	88.90	1,181.10	124.34			
M11006	Tree H=3m	each	2,630.00	184.10	2,188.40	10.0%	18.41	10.0%	239.09	2,630.00	7.0%	93.0%	9.8%	184.10	2,445.90	257.50			
M11111	Sod	m2	29.40	2.06	24.46	10.0%	0.21	10.0%	2.67	29.40	7.0%	93.0%	9.8%	2.06	27.34	2.88			
12. Architectural Material																			
M12001	Brick 2"x4"x8" (50x100x200mm)	each	5.50	0.83	4.09	10.0%	0.08	10.0%	0.50	5.50	15.0%	85.0%	10.6%	0.83	4.68	0.58			
M12011	Concrete Hollow Block (load bearing) 4"x8"x16" (100x200x400mm)	each	10.00	2.50	6.34	10.0%	0.25	10.0%	0.91	10.00	25.0%	75.0%	11.6%	2.50	7.50	1.16			
M12012	Concrete Hollow Block (load bearing) 6"x8"x16" (150x200x400mm)	each	12.00	3.00	7.61	10.0%	0.30	10.0%	1.09	12.00	25.0%	75.0%	11.6%	3.00	9.00	1.39			

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax		Value Added Tax		Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks
						(%)	(PP)	(%)	(PP)		Foreign (%)	Local (%)	Tax (%)				
M12013	Concrete Hollow Block (non load) 4"x8"x16" (100x200x400mm)	each	6.50	1.63	4.12	10.0%	0.16	10.0%	0.59	6.50	25.0%	75.0%	11.6%	1.63	4.88	0.75	
M12014	Concrete Hollow Block (non load) 6"x8"x16" (150x200x400mm)	each	7.50	1.88	4.76	10.0%	0.19	10.0%	0.68	7.50	25.0%	75.0%	11.6%	1.88	5.63	0.87	
M12051	Un glazed Tile 200x200mm	each	21.20	8.48	9.94	10.0%	0.85	10.0%	1.93	21.20	40.0%	60.0%	13.1%	8.48	12.72	2.78	
M12101	Chain Link Fence Fabric	m	1,460.00	730.00	524.27	10.0%	73.00	10.0%	132.73	1,460.00	50.0%	50.0%	14.1%	730.00	730.00	205.73	
M12111	Galvanized Iron Sheet, colored	m2	118.00	70.80	29.39	10.0%	7.08	10.0%	10.73	118.00	60.0%	40.0%	15.1%	70.80	47.20	17.81	
M12112	Corrugated Galvanized Iron Sheet, colored	m2	122.00	73.20	30.39	10.0%	7.32	10.0%	11.09	122.00	60.0%	40.0%	15.1%	73.20	48.80	18.41	
M12211	Insulation, Grasswool	m2	57.00	31.35	17.33	10.0%	3.14	10.0%	5.18	57.00	55.0%	45.0%	14.6%	31.35	25.65	8.32	
M12221	Gypsum Board Ceiling	m2	137.00	75.35	41.66	10.0%	7.54	10.0%	12.45	137.00	55.0%	45.0%	14.6%	75.35	61.65	19.99	
M12251	Steel Door with Steel Panels 900x2100mm	each	5,530.00	2,488.50	2,289.92	10.0%	248.85	10.0%	502.73	5,530.00	45.0%	55.0%	13.6%	2,488.50	3,041.50	751.58	
M12252	Flush Type Hollow Core Door with 6mm thick ordinary plywood 800x2100mm	each	2,500.00	500.00	1,722.73	10.0%	50.00	10.0%	227.27	2,500.00	20.0%	80.0%	11.1%	500.00	2,000.00	277.27	
M12253	Flush Type Hollow Core Door with 6mm thick marine plywood 600x2100mm	each	1,870.00	374.00	1,288.60	10.0%	37.40	10.0%	170.00	1,870.00	20.0%	80.0%	11.1%	374.00	1,496.00	207.40	
M12261	Jalousie Window with Steel Blades 2100x1500mm	each	6,750.00	3,037.50	2,795.11	10.0%	303.75	10.0%	613.64	6,750.00	45.0%	55.0%	13.6%	3,037.50	3,712.50	917.39	
M12262	Jalousie Window with Steel Blades 3900x1500mm	each	12,500.00	5,625.00	5,176.14	10.0%	562.50	10.0%	1,136.36	12,500.00	45.0%	55.0%	13.6%	5,625.00	6,875.00	1,698.86	
M12263	Jalousie Window with Steel Blades 1400x900	each	2,640.00	1,188.00	1,093.20	10.0%	118.80	10.0%	240.00	2,640.00	45.0%	55.0%	13.6%	1,188.00	1,452.00	358.80	
M12264	Jalousie Window with Steel Blades 820x250	each	458.00	206.10	189.65	10.0%	20.61	10.0%	41.64	458.00	45.0%	55.0%	13.6%	206.10	251.90	62.25	
M12271	Floor Drain	each	266.00	119.70	110.15	10.0%	11.97	10.0%	24.18	266.00	45.0%	55.0%	13.6%	119.70	146.30	36.15	
M12272	Urinal	each	2,310.00	1,270.50	702.45	10.0%	127.05	10.0%	210.00	2,310.00	55.0%	45.0%	14.6%	1,270.50	1,039.50	337.05	
M12273	Toilet Stool	each	5,110.00	2,810.50	1,553.90	10.0%	281.05	10.0%	464.55	5,110.00	55.0%	45.0%	14.6%	2,810.50	2,299.50	745.60	
M12274	Lavatory Wash Basin	each	2,920.00	1,606.00	887.95	10.0%	160.60	10.0%	265.45	2,920.00	55.0%	45.0%	14.6%	1,606.00	1,314.00	426.05	
M12275	Shower	each	2,120.00	1,060.00	761.27	10.0%	106.00	10.0%	192.73	2,120.00	50.0%	50.0%	14.1%	1,060.00	1,060.00	298.73	
M12276	Shower Drain	each	343.00	154.35	142.03	10.0%	15.44	10.0%	31.18	343.00	45.0%	55.0%	13.6%	154.35	188.65	46.62	
M12277	Clean Out	each	319.00	143.55	132.10	10.0%	14.36	10.0%	29.00	319.00	45.0%	55.0%	13.6%	143.55	175.45	43.36	
M12278	Sink (1 basin with table)	each	6,230.00	2,803.50	2,579.79	10.0%	280.35	10.0%	566.36	6,230.00	45.0%	55.0%	13.6%	2,803.50	3,426.50	846.71	
M12279	Kitchen Sink (1 basin + flat with table)	each	9,010.00	4,054.50	3,730.96	10.0%	405.45	10.0%	819.09	9,010.00	45.0%	55.0%	13.6%	4,054.50	4,955.50	1,224.54	
13. Electrical Material																	
M13001	Street Lighting Fixture (110~400W)	each	7,920.00	4,752.00	1,972.80	10.0%	475.20	10.0%	720.00	7,920.00	60.0%	40.0%	15.1%	4,752.00	3,168.00	1,195.20	
M13011	Street Lighting Stabilizer	each	2,600.00	1,690.00	504.64	10.0%	169.00	10.0%	236.36	2,600.00	65.0%	35.0%	15.6%	1,690.00	910.00	405.36	
M13021	Street Lighting Lamp	each	1,320.00	792.00	328.80	10.0%	79.20	10.0%	120.00	1,320.00	60.0%	40.0%	15.1%	792.00	528.00	199.20	
M13051	Electric Cable	m	62.30	34.27	18.94	10.0%	3.43	10.0%	5.66	62.30	55.0%	45.0%	14.6%	34.27	28.04	9.09	
M13052	Electric Conduit	m	67.90	30.56	28.12	10.0%	3.06	10.0%	6.17	67.90	45.0%	55.0%	13.6%	30.56	37.35	9.23	
M13061	Lighting Panel for Street Lights	each	20,300.00	11,165.00	6,173.05	10.0%	1,116.50	10.0%	1,845.45	20,300.00	55.0%	45.0%	14.6%	11,165.00	9,135.00	2,961.95	
M13071	Electric Service Meter for Street Lighting	each	3,800.00	2,470.00	737.55	10.0%	247.00	10.0%	345.45	3,800.00	65.0%	35.0%	15.6%	2,470.00	1,330.00	592.45	
M13131	Ceiling Lamp, 40W 220V Fluorescent Lighting Fixtures, Box Type	each	496.00	297.60	123.55	10.0%	29.76	10.0%	45.09	496.00	60.0%	40.0%	15.1%	297.60	198.40	74.85	
M13141	Ceiling Lamp, SL-18 with Hexless Receptacle	each	172.00	103.20	42.84	10.0%	10.32	10.0%	15.64	172.00	60.0%	40.0%	15.1%	103.20	68.80	25.96	
M13151	One-way Wall Switch	each	30.50	16.78	9.27	10.0%	1.68	10.0%	2.77	30.50	55.0%	45.0%	14.6%	16.78	13.73	4.45	
M13152	2 One-way Wall Switches on one Gang Plate	each	80.50	44.28	24.48	10.0%	4.43	10.0%	7.32	80.50	55.0%	45.0%	14.6%	44.28	36.23	11.75	
M13153	3 One-way Wall Switches on one Gang Plate	each	103.00	56.65	31.32	10.0%	5.67	10.0%	9.36	103.00	55.0%	45.0%	14.6%	56.65	46.35	15.03	

Item No.	Description	Unit	Local Market Price (PP)	CIF Price (PP)	Local Portion (PP)	Import Tax		Value Added Tax		Total Price (PP)	Components			Foreign (PP)	Local (PP)	Tax (PP)	Remarks
						%	(PP)	%	(PP)		%	(%)	%				
M13154	Duplex Convenience Outlet, Grounding Type	each	80.50	44.28	24.48	10.0%	4.43	10.0%	7.32	80.50	55.0%	45.0%	14.6%	44.28	36.23	11.75	
M13155	Heavy Duty Convenience Outlets, Single Grounding Type	each	129.00	70.95	39.23	10.0%	7.10	10.0%	11.73	129.00	55.0%	45.0%	14.6%	70.95	58.05	18.82	
M13156	Air Conditioning Outlet Grounding Type with Automatic Circuit Breaker in One Enclosure	each	694.00	381.70	211.04	10.0%	38.17	10.0%	63.09	694.00	55.0%	45.0%	14.6%	381.70	312.30	101.26	
M13157	Enclosed Automatic Circuit Breaker	each	8,190.00	5,323.50	1,589.60	10.0%	532.35	10.0%	744.55	8,190.00	65.0%	35.0%	15.6%	5,323.50	2,866.50	1,276.90	
M13158	Distribution Panel Board	each	12,100.00	7,260.00	3,014.00	10.0%	726.00	10.0%	1,100.00	12,100.00	60.0%	40.0%	15.1%	7,260.00	4,840.00	1,826.00	
M13159	Pull Box or Junction Box	each	1,040.00	624.00	259.05	10.0%	62.40	10.0%	94.55	1,040.00	60.0%	40.0%	15.1%	624.00	416.00	156.95	
M13160	Electric Service Meter	each	3,610.00	2,346.50	700.67	10.0%	234.65	10.0%	328.18	3,610.00	65.0%	35.0%	15.6%	2,346.50	1,263.50	562.83	
M13161	Concealed or Embedded Conduit Run	m	7.52	3.76	2.70	10.0%	0.38	10.0%	0.68	7.52	50.0%	50.0%	14.1%	3.76	3.76	1.06	
M13162	Underground or Underfloor Conduit Run	m	34.00	17.00	12.21	10.0%	1.70	10.0%	3.09	34.00	50.0%	50.0%	14.1%	17.00	17.00	4.79	
M13163	Perimeter Lighting, 160W 220V Mercury Lamp	each	909.00	545.40	226.42	10.0%	54.54	10.0%	82.64	909.00	60.0%	40.0%	15.1%	545.40	363.60	137.18	
M13164	Galvanized Steel Lighting Post H=3.5m	each	4,670.00	2,802.00	1,163.25	10.0%	280.20	10.0%	424.55	4,670.00	60.0%	40.0%	15.1%	2,802.00	1,868.00	704.75	
M13165	Underground or Underfloor Conduit Run	m	58.40	35.04	14.55	10.0%	3.50	10.0%	5.31	58.40	60.0%	40.0%	15.1%	35.04	23.36	8.81	
	15. Other Materials																
M15101	Film ASA 400 x 36	each	169.00	118.30	23.51	10.0%	11.83	10.0%	15.36	169.00	70.0%	30.0%	16.1%	118.30	50.70	27.19	
M15102	Film Development	each	45.00	6.75	33.48	10.0%	0.68	10.0%	4.09	45.00	15.0%	85.0%	10.6%	6.75	38.25	4.77	
M15103	Picture Prints	each	6.00	0.90	4.46	10.0%	0.09	10.0%	0.55	6.00	15.0%	85.0%	10.6%	0.90	5.10	0.64	

10. Equipment Operation Cost Based On Rental Cost

Exchange Rate US\$ = 52.28 PP = 120.12 yen

1) Operated Hour and Bare Month Rental Costs are based on "Equipment Guide Book" Association of Carriers and Equipment Lessors (ACEL), INC. Nov. 1998.

Summary of Terms and Condition of Rental Cost and consideration.

	Operated Equipment Rental Contract		Bare Equipment Rental Contract (Month to Month Contract)
	Day to Day Contract	Month to Month Contract	
Minimum Charge	Min. 10 hours/day (operating and/or standby) for the first shift + actual operating hour for succeeding shift	Min. 200 hours/month for the first month + actual operation hours	Min. 200 hours/month (use or non-use)
Charge in case of idle due to lack of fuel/lubricant	10 hours/day	8 hours/day	-
Charge in case of non usage (Standby or waiting)	Minimum daily rental or monthly	Minimum daily rental or monthly	-
Charge in case of Unworkable Conditions	500.00 PP/day or 2 hour rental whichever is higher	500.00 PP/day or 2 hour rental whichever is higher	-
Operation on holidays and Sundays		min. 8 hours/day will be charged	min. 8 hours/day will be charged
Charged Period	Duration between leaving from and returning to Lessor's yard.	Duration between leaving from and returning to Lessor's yard.	Duration between leaving from and returning to Lessor's yard.
Mobilization	Not included (Lessee)	Not included (Lessee)	Not included (Lessee)
Operator	Included (Lessor)	Included (Lessor)	Not included (Lessee)
Maintenance	Included (Lessor)	Included (Lessor)	Not included (Lessee)
Fuel	Included (Lessor) but the price differential with Metro Manila shall be borne by Lessee	Included (Lessor) but the price differential with Metro Manila shall be borne by Lessee	Not included (Lessee)
Project outside Metro Manila	Min. 2% extra outside Metro Manila	Min. 2% extra outside Metro Manila	Case to case basis depending on the proximity or isolation of the project from Metro Manila
Monthly Rental Cost	(Hourly Cost x 10 hr x 30 days) x 1.02 (for outside Metro Manila) = 306 x Hourly Cost	(Hourly Cost x 200 hr) x 1.02 (for outside Metro Manila) = 204 x Hourly Cost	Bare Monthly Cost x 1.02 (for outside Metro Manila) = 1.02 x Bare Month Cost
Hourly Operation Cost	Monthly Rental Cost / Working days / Daily Operation Hour	Monthly Rental Cost / Working days / Daily Operation Hour	Monthly Rental Cost / Working days / Daily Operation Hour + Operator + Maintenance + Fuel
Consideration	Not to be considered as obviously more expensive than Month to Month Contract.	To be compared with Bare Month Contract.	To be compared with Month to Month Contract by hourly rental cost.

Therefore, Month to Month Contract based on Operated Equipment Rental Contract and Month to Month Contract based on Bare Equipment Rental Contract will be compared and whichever the lesser will be adopted for cost estimation.

2) Hourly (or Daily) Operation Cost based on Month to Month Operated Equipment Rental Contract is calculated considering the extra out of Metro Manila, standard monthly operation hours and operation days.

Minimum charged hours per month = 200 hrs
Extra outside Metro Manila = 2%

$$\text{Hourly (or Daily) Operation Cost} = \frac{\text{Operated Hour Rental Cost} \times 200 \text{ hr} \times 1.02}{\text{Monthly Operation Hours (or Monthly Operation Days)}}$$

3) Hourly (or Daily) Operation Cost based on Bare Equipment Rental Contract is calculated considering the standard monthly operation hours, operation days, maintenance cost and fuel costs borne by the lessee.

Extra outside Metro Manila = 2%

$$\text{Hourly (or Daily) Operation Cost} = \frac{\text{Bare Month Rental Cost} \times 1.02 \times (1 + \text{Maintenance Rate})}{\text{Monthly Operation Hours (or Monthly Operation Days)}} + \text{Operator/Driver Cost} + \text{Fuel Consumption Cost}$$

$$\text{Operator/Driver Cost} = \frac{\text{Daily Operator/Driver Cost} \times \text{Monthly Working Days}}{\text{Standard Monthly Operation Hours (or Days)}}$$

$$\text{Fuel Consumption Cost} = \text{Equipment Power} \times \text{Hourly Fuel Consumption rate (for daily cost: } \times \text{ Operation Hours per Working Day)}$$

Daily operation hours to calculate the daily fuel consumption cost is taken as 6.00 hours

4) The equipment shall be operated by operator having special license, driver with ordinary license and skilled labor depending on the equipment.

429.00 PP/day
375.00 PP/day
410.00 PP/day

5) Fuel Consumption Rates are based on Japanese Cost Estimation Standard.

Fuel			Foreign	Local
D	: Diesel	12.10 PP/ltr	65.0%	35.0%
E	: Electricity	4.00 PP/kWh	50.0%	50.0%
C	: Gasoline	14.20 PP/ltr	65.0%	35.0%
H	: Heavy Oil	9.77 PP/ltr	65.0%	35.0%

6) Mobilization and demobilization costs to and from the site are not included in the operation cost but to be considered in separate item.

7) Powers given in Horse Power (HP) in the Guide Book of ACEL are converted to kW by 1 HP = 0.75 kW.

8) Values marked with "*1)" are the equipment power assumed from Construction Equipment Data Book of Japan as not specified in ACEL Guide Book.

9) Values marked with "*2)" for Diesel Hummers are the ram weight instead of power.

10) Standard Operation Hours per Working Day are derived from Construction Equipment Data Book of Japan

11) Standard Monthly Working Days and Operation Hours are calculated as follows:

National Holidays = 9 days/year
 Work Days/Week = 6 day/week = (7 Weekdays - Sunday)
 Annual Rainy Days = 50.2 days/year = (Daily Precipitation of 10mm and more)
 Annual Workable Days = 263 days = [(365/7)week x Weekly work days / 365] x [(365-Holidays)/365] x [1-(Annual Rainy Days/365)] x 365 days
 Monthly Working Days = 22 days = Annual Workable Days / 12 Months
 Monthly Operation Hours = Operation Hours per Working Day x Standard Monthly Operation Days

10) Maintenance Rates are assumed values.

11) Components of Labor, Material and Equipment are calculated by the following rules:

In case of Month to Month Contract with Operated Hour Rental Cost, all the cost are counted as Equipment Cost. That is,

Labor = 0%
 Material = 0%
 Equipment = 100%

In case of Bare Month Rental Cost, the components are calculated by the following rules:

Labor = Operator/Driver Cost
 Material = Fuel Cost
 Equipment = Bare Month Rental Cost including maintenance cost and extra outside Metro Manila

12) Components of Foreign and Local are calculated on the basis that the foreign portions in bare rental cost, maintenance, operation and fuel cost are as assumed as in the following table and calculated as in the equation given below.

	Foreign Portion
Bare Month Rental Cost	55%
Maintenance Cost	20%
Operator/Driver Cost	0%
Fuel Cost	MP% as in material cost

$$\text{Foreign Portion of Operation Cost} = \frac{\text{Bare Month Rental Cost} \times 1.02 \times (55.0\% + \text{Maintenance Rate} \times 20.0\%)}{\text{Monthly Operation Hours (or Monthly Operation Days)}} + \text{Operator/Driver Cost} \times 0.0\% + \text{Fuel Consumption Cost} \times \text{MP\%}$$

No.	Item	Power (kW)	Weight (t)	Operated Hour Rental Cost (PP/hr)	Bare Month Rental Cost (PP/month)	Operation Hours per Working Day (hr/day)	Standard Monthly Operation Days (days)	Standard Monthly Operation Hours (hr)	Maintenance Rate (%)	Operator / Driver (PP/day)	Hourly Fuel Consumption			Hourly (or Daily) Operation Cost			Components (%)					Remarks			
											Type	Rate	Amount	Cost	Unit	Based on Hourly Rental Cost	Based on Bare Month Rental Cost	Adopted Rental Cost	Labor	Material	Equip.		Foreign	Local	
												ltr/kW-hr	kWh/kW-hr	(PP/hr)		(PP)	(PP)	(PP)							
1. Excavation Equipment																									
R0101-015	Tractor, crawler w/dozer (Bulldozer, 15t)	92.5	14.60	1,933.00	268,806.00	5.27	22.0	115.94	2.0%	1	429.00	D	0.188	17.39	210.00	hr	3,400.00	2,700.00	2,700.00	3.0%	7.8%	89.2%	53.6%	46.4%	P39, Komatsu, D53P-17 (P139)
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	149.0	20.67	3,623.00	521,919.00	6.58	22.0	144.76	2.0%	1	429.00	D	0.188	28.01	339.00	hr	5,110.00	4,160.00	4,160.00	1.6%	8.1%	90.3%	54.3%	45.7%	P38, Komatsu, DR5E-SS-2A (P142)
R0102-035	Backhoe, hydraulic, crawler, 0.11m3	26.0		577.00	71,535.00	22.0	22.0	0.00	2.0%	1	429.00	D	0.188	4.89	59.00	day	5,350.00	4,170.00	4,170.00	10.3%	8.5%	81.2%	49.6%	50.4%	P85, Komatsu, PC40-2
R0102-035	Backhoe, hydraulic, crawler, 0.35m3	45.0		908.00	119,377.00	5.47	22.0	120.34	2.0%	1	429.00	D	0.188	8.46	102.00	hr	1,540.00	1,210.00	1,210.00	6.5%	8.4%	85.1%	51.8%	48.2%	P84, Komatsu, PC80-1
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	64.0		1,295.00	175,733.00	5.47	22.0	120.34	2.0%	1	429.00	D	0.188	12.03	146.00	hr	2,200.00	1,740.00	1,740.00	4.5%	8.4%	87.1%	52.9%	47.1%	P85, Mitsubishi, MS140
R0102-070	Backhoe, hydraulic, crawler, 0.70m3	72.0		1,534.00	205,396.00	5.47	22.0	120.34	2.0%	1	429.00	D	0.188	13.54	164.00	hr	2,600.00	2,020.00	2,020.00	3.9%	8.1%	88.0%	53.0%	47.0%	P82, HIL, IS-07
R0102-080	Backhoe, hydraulic, crawler, 0.80m3	79.0		1,766.00	239,680.00	5.47	22.0	120.34	2.0%	1	429.00	D	0.188	14.85	180.00	hr	2,990.00	2,330.00	2,330.00	3.4%	7.7%	88.9%	53.3%	46.7%	P84, Komatsu, PC200-2
2. Demolition Equipment																									
R0201-020	Rock Drill/Breaker 20cfn	3.8		-	29,671.00		22.0	0.00	2.0%	0	0.00			0.00	0.00	day	-	1,400.00	1,400.00	0.0%	0.0%	100.0%	54.4%	45.6%	P19, Pioneer 120
R0202-090	Crawler Drill			428.00	54,742.00	5.00	22.0	110.00	2.0%	0	0.00			0.00	0.00	hr	794.00	518.00	518.00	0.0%	0.0%	100.0%	54.3%	45.7%	P110, Ingersoll Rand LM100/YD 90
R0204-020	Pneumatic Breaker, Handheld			-	9,660.00		22.0	0.00	2.0%	0	0.00			0.00	0.00	day	-	457.00	457.00	0.0%	0.0%	100.0%	54.3%	45.7%	P110, All Models
R0207-020	Chipping Hammer			-	14,035.00		22.0	0.00	2.0%	0	0.00			0.00	0.00	day	-	664.00	664.00	0.0%	0.0%	100.0%	54.3%	45.7%	P120, Stanley CH-18
3. Leveling & Connection Equipment																									
R0301-285	Motor Grader, 2.85m	63.8	7.95	1,693.00	215,873.00	5.22	22.0	114.84	2.0%	1	429.00	D	0.110	7.02	85.00	hr	3,010.00	2,120.00	2,120.00	3.9%	4.0%	92.1%	52.7%	47.3%	P62, Komatsu, GD305A-1 (P172)
R0301-371	Motor Grader, 3.71m	116.0	12.70	1,748.00	220,612.00	5.22	22.0	114.84	2.0%	1	429.00	D	0.110	12.76	154.00	hr	3,110.00	2,230.00	2,230.00	3.7%	6.9%	89.4%	53.2%	46.8%	P61, Komatsu, GD623A-1 (P173)
R0302-000	Soil Stabilizer/Road Reclaimer	*1) 179.0		4,666.00	605,815.00	5.20	22.0	114.40	2.0%	1	429.00	D	0.113	20.23	245.00	hr	8,320.00	5,840.00	5,840.00	1.4%	4.2%	94.4%	54.0%	46.0%	P100, CAT SSS250R (S00/1985-1996)
R0304-016	Four Tamping Foot Wheels (Tire Roller) 16t	128.0		1,583.00	182,216.00	5.00	22.0	110.00	2.0%	1	429.00	D	0.102	13.06	158.00	hr	2,940.00	1,970.00	1,970.00	4.4%	8.0%	87.6%	52.7%	47.3%	P63, Caterpillar 815
R0305-037	Vibratory Single Smooth Drum 3.75t (Vibration Roller, combined, 3~4t)	21.0	3.75	328.00	30,701.00	4.80	22.0	105.60	2.0%	1	429.00	D	0.155	3.26	39.00	hr	634.00	431.00	431.00	20.7%	9.0%	70.3%	44.0%	56.0%	P67, Komatsu, JV40
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	97.0	10.59	1,622.00	192,103.00	5.13	22.0	112.86	2.0%	1	429.00	D	0.155	15.04	182.00	hr	2,930.00	2,040.00	2,040.00	4.1%	8.9%	87.0%	52.9%	47.1%	P67, Komatsu, JV100WA-1 (P183)
R0306-006	Vibration Rammer, 6in Plate Connector	*1) 3.0	5.3	85.00	1,697.00		22.0	0.00	2.0%	0	0.00	G	0.310	0.93	13.00	day	788.00	158.00	158.00	0.0%	49.4%	50.6%	59.7%	40.3%	P72, Stanley TASS
R0307-000				186.00	13,575.00		22.0	0.00	2.0%	0	0.00	G	0.310	1.64	23.00	day	1,720.00	780.00	780.00	0.0%	17.7%	82.3%	56.2%	43.8%	P72, All Makes 7MP
4. Lifting Equipment																									
R0401-025	Crawler Crane, 21~25t	109.0		1,258.00	167,985.00	5.82	22.0	128.04	2.0%	1	429.00	D	0.095	10.36	125.00	hr	2,000.00	1,560.00	1,560.00	4.7%	8.0%	87.3%	52.7%	47.3%	P73, All Models
R0401-030	Crawler Crane, 26~30t	109.0		1,280.00	172,070.00	5.82	22.0	128.04	2.0%	1	429.00	D	0.095	10.36	125.00	hr	2,040.00	1,600.00	1,600.00	4.8%	7.8%	87.6%	52.5%	47.5%	P73, All Models
R0401-035	Crawler Crane, 31~35t	143.0		1,385.00	177,263.00	5.82	22.0	128.04	2.0%	1	429.00	D	0.095	13.59	164.00	hr	2,210.00	1,680.00	1,680.00	4.4%	9.8%	85.8%	52.9%	47.1%	P73, All Models
R0401-040	Crawler Crane, 36~40t	143.0		1,572.00	210,749.00	5.82	22.0	128.04	2.0%	1	429.00	D	0.095	13.59	164.00	hr	2,500.00	1,950.00	1,950.00	3.8%	8.4%	87.8%	53.2%	46.8%	P73, All Models
R0401-045	Crawler Crane, 41~45t	143.0		1,778.00	248,115.00	6.21	22.0	136.62	2.0%	1	429.00	D	0.095	13.59	164.00	hr	2,650.00	2,120.00	2,120.00	3.3%	7.7%	89.0%	53.4%	46.6%	P73, All Models

No.	Item	Power (kW)	Weight (t)	Operated Hour Rental Cost (PP/hr)	Base Month Rental Cost (PP/month)	Operation Hours per Working Day (hr/day)	Standard Monthly Operation Days (days)	Standard Monthly Operation Hours (hr)	Main- tenance Rate (%)	Operator Driver (PP/day)	Hourly Fuel Consumption			Unit	Hourly (or Daily) Operation Cost			Components (%)					Remarks			
											Type	Rate	Amount		Cost	Based on Hourly Rental Cost (PP)	Based on Base Month Rental Cost (PP)	Adopted Rental Cost (PP)	Labor	Material	Equip.	Foreign		Local		
												lit/kWh-hr (kWh/kWh-hr)	lit/hr (kWh/hr)		(PP/hr)											
R1001-015	10. Generator, Pumps & Blowers Generator 11-15 kW	15.0	-	-	14,746.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	2.60	31.00	day	-	883.00	883.00	0.0%	21.1%	78.9%	56.6%	43.4%	P115, All Makes	
R1001-020	Generator 16-20 kW	20.0	-	-	20,205.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	3.46	42.00	day	-	1,210.00	1,210.00	0.0%	20.8%	79.2%	56.4%	43.6%	P115, All Makes	
R1001-030	Generator 21-30 kW	30.0	-	-	22,842.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	5.19	63.00	day	-	1,460.00	1,460.00	0.0%	25.9%	74.1%	57.0%	43.0%	P115, All Makes	
R1001-040	Generator 31-40 kW	40.0	-	-	23,064.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	6.92	84.00	day	-	1,590.00	1,590.00	0.0%	31.7%	68.3%	57.9%	42.1%	P115, All Makes	
R1001-050	Generator 41-50 kW	50.0	-	-	26,006.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	8.65	105.00	day	-	1,860.00	1,860.00	0.0%	33.9%	66.1%	57.9%	42.1%	P115, All Makes	
R1001-100	Generator 51-100 kW	100.0	-	-	30,340.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	17.30	209.00	day	-	2,690.00	2,690.00	0.0%	46.6%	53.4%	59.3%	40.7%	P115, All Makes	
R1001-150	Generator 101-150 kW	150.0	-	-	36,580.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	25.95	314.00	day	-	3,610.00	3,610.00	0.0%	52.2%	47.8%	59.9%	40.1%	P115, All Makes	
R1001-200	Generator 151-200 kW	200.0	-	-	58,528.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	34.60	419.00	day	-	5,280.00	5,280.00	0.0%	47.8%	52.2%	59.4%	40.6%	P115, All Makes	
R1001-250	Generator 201-250 kW	250.0	-	-	76,421.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	43.25	523.00	day	-	6,750.00	6,750.00	0.0%	46.3%	53.7%	59.3%	40.7%	P115, All Makes	
R1001-300	Generator 251-300 kW	300.0	-	-	88,169.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	51.90	628.00	day	-	7,940.00	7,940.00	0.0%	47.5%	52.5%	59.4%	40.6%	P115, All Makes	
R1001-350	Generator 301-350 kW	350.0	-	-	91,973.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	60.55	733.00	day	-	8,750.00	8,750.00	0.0%	50.3%	49.7%	59.7%	40.3%	P115, All Makes	
R1001-400	Generator 351-400 kW	400.0	-	-	108,696.00	-	22.0	0.00	2.0%	0	0.00	D	0.173	69.20	837.00	day	-	10,200.00	10,200.00	0.0%	49.7%	50.3%	59.4%	40.6%	P115, All Makes	
R1002-160	Air Compressor 120-160 cfm (3.6-4.5m ³ /min)	38.0	-	379.00	31,841.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	8.02	97.00	day	3,510.00	2,090.00	0.0%	27.8%	72.2%	57.2%	42.8%	P109, All Models		
R1002-185	Air Compressor 161-185 cfm (4.6-5.2m ³ /min)	52.0	-	422.00	33,642.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	10.97	133.00	day	3,910.00	2,390.00	0.0%	33.4%	66.6%	57.9%	42.1%	P109, All Models		
R1002-250	Air Compressor 186-250 cfm (5.3-7.1m ³ /min)	55.0	-	522.00	47,383.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	11.61	140.00	day	4,840.00	3,080.00	0.0%	27.3%	72.7%	57.2%	42.8%	P109, All Models		
R1002-315	Air Compressor 251-315 cfm (7.1-8.9m ³ /min)	69.0	-	559.00	48,180.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	14.56	176.00	day	5,180.00	3,330.00	0.0%	31.7%	68.3%	57.8%	42.2%	P109, All Models		
R1002-330	Air Compressor 316-330 cfm (8.9-9.3m ³ /min)	70.0	-	576.00	50,463.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	14.77	179.00	day	5,340.00	3,460.00	0.0%	31.0%	69.0%	57.8%	42.4%	P109, All Models		
R1002-350	Air Compressor 331-350 cfm (9.4-9.9m ³ /min)	77.0	-	614.00	53,543.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	16.25	197.00	day	5,690.00	3,710.00	0.0%	31.9%	68.1%	57.8%	42.2%	P109, All Models		
R1002-450	Air Compressor 356-450 cfm (10.0-12.7m ³ /min)	98.0	-	811.00	75,812.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	20.68	250.00	day	7,520.00	5,090.00	0.0%	29.5%	70.5%	57.4%	42.6%	P109, All Models		
R1002-500	Air Compressor 456-500 cfm (12.9-14.2m ³ /min)	113.0	-	876.00	80,351.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	23.84	289.00	day	8,120.00	5,540.00	0.0%	31.3%	68.7%	57.7%	42.3%	P109, All Models		
R1002-600	Air Compressor 501-600 cfm (14.2-17.0m ³ /min)	134.0	-	1,182.00	118,457.00	-	22.0	0.00	2.0%	0	0.00	D	0.211	28.27	342.00	day	11,000.00	7,650.00	0.0%	26.8%	73.2%	57.2%	42.8%	P109, All Models		
R1004-051	Electric Water Pump 1 3/4 - 2 (44.5-50.8mm)	*1) 0.8	-	-	2,162.00	-	22.0	0.00	2.0%	0	0.00	E	0.584	0.47	2.00	day	-	114.00	114.00	0.0%	10.5%	89.5%	54.0%	46.0%	P112, All Models	
R1004-102	Electric Water Pump 3 1/2 - 4 (89.9-101.6mm)	*1) 3.7	-	-	2,983.00	-	22.0	0.00	2.0%	0	0.00	E	0.584	2.16	9.00	day	-	195.00	195.00	0.0%	27.7%	72.3%	53.1%	46.9%	P112, All Models	
R1004-203	Electric Water Pump 6 1/2 - 8 (165.1-203.2mm)	*1) 11.0	-	-	6,871.00	-	22.0	0.00	2.0%	0	0.00	E	0.584	6.42	26.00	day	-	481.00	481.00	0.0%	32.4%	67.6%	52.9%	47.1%	P111, All Models	
R1005-132	Sump Pump 132 gal/min (500ltr/min) 10m head	*1) 5.5	-	-	1,582.00	-	22.0	0.00	2.0%	0	0.00	E	0.584	3.21	13.00	day	-	153.00	153.00	0.0%	51.0%	49.0%	52.0%	48.0%	P114, Atlas Copco D1P65	
R1006-075	Mud Pump	*1) 5.5	-	-	2,874.00	-	22.0	0.00	2.0%	0	0.00	E	0.584	3.21	13.00	day	-	214.00	214.00	0.0%	36.4%	63.6%	52.7%	47.3%	P114, Yamada Yuki DF-75 RAC	
R1007-002	Power Unit (Jack), hydraulic, HP-2, pump can. 7-9	14.0	-	-	13,864.00	-	22.0	0.00	2.0%	0	0.00	D	0.00	0.00	0.00	day	-	656.00	656.00	0.0%	0.0%	100.0%	54.3%	45.7%	P121, Stanley HPR-2	
11. Road Maintenance Equipment																										
R1101-002	Power Broam 2m	*1) 146.0	-	-	16,576.00	7.60	22.0	167.20	2.0%	1	429.00	D	0.065	9.49	115.00	hr	-	275.00	275.00	20.5%	41.8%	37.7%	47.6%	52.4%	P126	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	270.0	-	968.00	44,333.00	6.00	22.0	132.00	2.0%	2	375.00	D	0.041	11.07	134.00	hr	1,500.00	546.00	546.00	11.4%	24.5%	64.1%	50.7%	49.3%	P117, All Makes	
15. Miscellaneous																										
R1531-002	Hammer Drill	*1) 1.1	-	-	2,493.00	-	22.0	0.00	2.0%	0	0.00	D	0.00	0.00	0.00	day	-	118.00	118.00	0.0%	0.0%	100.0%	54.3%	45.7%	P116, IE15	
R1561-000	Chainsaw	*1) 6.0	-	-	4,180.00	-	22.0	0.00	2.0%	0	0.00	D	0.00	0.00	0.00	day	-	198.00	198.00	0.0%	0.0%	100.0%	54.2%	45.8%	P119, Husqvarna 162/266	

Q0503-060 Vibro Hammer, 60kW + Crawler Crane, 40t Operation Hour per Operated Day= 5.56 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Vibro Hammer, Crawler Crane, Miscellaneous.

Q0504-025 Diesel Hammer Piling Machine, crawler, triaxial support, ram 2.5t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0504-035 Diesel Hammer Piling Machine, crawler, triaxial support, ram 3.5t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0504-045 Diesel Hammer Pile Driving Machine, crawler, triaxial support, ram 4.5t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Pile Driving Machine, Miscellaneous.

Q0504-060 Diesel Hammer Piling Machine, crawler, triaxial support, ram 6.0t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0504-072 Diesel Hammer Piling Machine, crawler, triaxial support, ram 7.2t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0505-013 Diesel Hammer Piling Machine, crawler, boom, ram 1.3t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0505-025 Diesel Hammer Piling Machine, crawler, boom, ram 2.5t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Diesel Hammer Piling Machine, Miscellaneous.

Q0506-020 Hydraulic Hammer Piling Machine, crawler, triaxial support, ram 2.0 t Operation Hour per Operated Day= 5.82 hr/day Unit 1.0 hr
Table with columns: Item No., Description, Unit, Quantity, Unit Cost (Component %), Total (PP), Amount (Component (PP)), Total (PP), Remarks. Rows include Operator, Diesel Oil, Hydraulic Hammer Piling Machine, Miscellaneous.

Q0806-045 Asphalt Curber, 4~4.5m3/h Operation Hour per Operated Day= 5.00 hr/day Unit 1.0 day

Q0807-020 Road Cutter, wheel, 2.0m Operation Hour per Operated Day= 5.43 hr/day Unit 1.0 hr

Q0809-023 Road Surface Heater Operation Hour per Operated Day= 6.57 hr/day Unit 1.0 hr

Q0901-025 Electric Welder, 250A Operation Hour per Operated Day= 3.30 hr/day Unit 1.0 day

Q0901-050 Electric Welder, 500A Operation Hour per Operated Day= 0.00 hr/day Unit 1.0 day

Q1001-010 Generator, 10kVA Operation Hour per Operated Day= 3.00 hr/day Unit 1.0 day

Q1001-015 Generator, 15kVA Operation Hour per Operated Day= 3.00 hr/day Unit 1.0 day

Q1001-020 Generator, 20kVA Operation Hour per Operated Day= 3.00 hr/day Unit 1.0 day

Q1001-035 Generator, 35kVA Operation Hour per Operated Day= 3.00 hr/day Unit 1.0 day

Q1001-045 Generator, 45kVA Operation Hour per Operated Day= 3.00 hr/day Unit 1.0 day

Code No.	Description	Power (kW)	Weight (t)	CIF Price (1000xPP)	Tax Rate		Durable Years (years)	Annual Standard			Resump- tion Rate (%)	Main- tenance & Repair Rate (%)	Annual Managem- ent Rate (%)	Converted Depreciation per Operation Hour (or day)						Converted Depreciation per Provided Day						Fuel Consumption		Operation Hour per Provided day (hr/day)	Operation Hour per Operation day (hr/day)
					Import (%)	VAT (%)		Opera- tion Hours (hr)	Opera- tion Days (day)	Provide d Days (day)				Rate	Amount	Component			Rate	Amount	Component			Type	Rate ltr/PS- hr kW/hr	Amount ltr/hr (kW/hr)			
																Foreign (%)	Local (%)	Tax (%)			Foreign (%)	Local (%)	Tax (%)						
					(x10 ⁻⁶)	(PP)		(%)	(%)	(%)				(x10 ⁻⁶)	(PP)	(%)	(%)	(%)	(%)	(%)	(%)								
Q1106-015	Line Marker (Solution Type, Hand Guide) 15cm	0.0	0.10	309.00	10.0%	10.0%	7.6	570	100	120	8.0%	41.3%	3.5%	hr	175	65.40	60.5%	39.5%	15.5%	1753	655.00	60.5%	39.5%	15.5%	D	0.041	0.0	4.75	5.70
Q1106-030	Line Marker (Solution Type, Hand Guide) 30, 45cm	0.0	0.10	193.00	10.0%	10.0%	7.6	570	100	120	8.0%	41.3%	3.5%	hr	175	40.90	60.5%	39.5%	15.5%	1753	409.00	60.5%	39.5%	15.5%	D	0.041	0.0	4.75	5.70
Q1106-120	Line Marker Solution Tank 200~350kg x 2	6.0	0.80	844.00	10.0%	10.0%	6.1	660	100	160	8.0%	30.0%	3.5%	hr	147	150.00	63.5%	36.5%	15.8%	1469	1,500.00	63.5%	36.5%	15.8%	D	0.041	0.2	4.13	6.60
Q1107-015	Line Marker (Paint Type, Hand Guide) 15cm	100.0	5.70	6,880.00	10.0%	10.0%	7.6	480	80	110	8.0%	30.0%	4.5%	hr	198	1,650.00	58.3%	41.7%	15.3%	1868	15,600.00	58.3%	41.7%	15.3%	D	0.041	4.1	4.36	6.00
Q1108-022	High Pressure Washer 2.2kW	2.2	0.07	77.50	10.0%	10.0%	8.8	0	110	150	8.0%	112.5%	3.5%	day	1563	147.00	56.2%	43.8%	15.3%	1783	167.00	56.2%	43.8%	15.3%	D	0.041	0.1	0.00	0.00
	15. Miscellaneous																												
Q1501-030	Rail 30kg/m x 100m	0.0	0.00	144.00	10.0%	10.0%	14.7	0	0	240	8.0%	0.0%	3.5%	day			53.0%	47.0%	14.7%	407	70.90	53.0%	47.0%	14.7%				0.00	0.00
Q1511-060	Square Pipe. 60mm x 1000m	0.0	0.00	140.00	10.0%	10.0%	3.3	0	0	255	7.0%	22.5%	2.5%	day			71.2%	28.8%	16.4%	1471	249.00	71.2%	28.8%	16.4%				0.00	0.00
Q1521-014	PC Bridge Cantilever Construction Form Traveler. W≤14m	14.8	59.00	14,100.00	10.0%	10.0%	8.0	0	0	180	10.0%	22.5%	3.5%	day			60.9%	39.1%	15.5%	976	16,700.00	60.9%	39.1%	15.5%				0.00	0.00
Q1521-017	PC Bridge Cantilever Construction Operation Wagon. W≤17m	22.2	84.00	18,800.00	10.0%	10.0%	8.0	0	0	180	10.0%	22.5%	3.5%	day			60.9%	39.1%	15.5%	976	22,200.00	60.9%	39.1%	15.5%				0.00	0.00
Q1521-020	PC Bridge Cantilever Construction Operation Wagon. W≤20m	29.6	117.00	25,400.00	10.0%	10.0%	8.0	0	0	180	10.0%	22.5%	3.5%	day			60.9%	39.1%	15.5%	976	30,000.00	60.9%	39.1%	15.5%				0.00	0.00
Q1521-024	PC Bridge Cantilever Construction Operation Wagon. W≤24m	29.6	125.00	27,600.00	10.0%	10.0%	8.0	0	0	180	10.0%	22.5%	3.5%	day			60.9%	39.1%	15.5%	976	32,600.00	60.9%	39.1%	15.5%				0.00	0.00
Q1531-001	Electric Drill	0.9	0.01	9.14	10.0%	10.0%	7.3	0	100	160	8.0%	56.3%	3.5%	day	2382	26.30	59.9%	40.1%	15.5%	1488	16.50	59.9%	40.1%	15.5%				0.00	0.00
Q1531-002	Hammer Drill	1.1	0.01	26.10	10.0%	10.0%	7.3	0	100	160	8.0%	56.3%	3.5%	day	2382	75.20	59.9%	40.1%	15.5%	1488	47.00	59.9%	40.1%	15.5%				0.00	0.00
Q1541-001	Steel Formwork 10m2	0.0	317.00	25.50	10.0%	10.0%	3.3	0	0	180	5.0%	26.3%	2.5%	day			70.8%	29.2%	16.4%	2181	67.30	70.8%	29.2%	16.4%				0.00	0.00
Q1551-001	Erection Girder t	0.0	1.00	170.00	10.0%	10.0%	9.0	0	0	125	10.0%	26.3%	3.5%	day			59.2%	40.8%	15.4%	1314	270.00	59.2%	40.8%	15.4%				0.00	0.00
Q1561-001	Temporary Frame Support (Portal 914x1700)	0.0	13.70	1.73	10.0%	10.0%	3.3	0	0	230	10.0%	26.3%	2.5%	day			70.3%	29.7%	16.4%	1641	3.44	70.3%	29.7%	16.4%				0.00	0.00
Q1561-002	Temporary Frame Support (Portal 1219x1700)	0.0	14.40	1.90	10.0%	10.0%	3.3	0	0	230	10.0%	26.3%	2.5%	day			70.3%	29.7%	16.4%	1641	3.77	70.3%	29.7%	16.4%				0.00	0.00
Q1561-003	Temporary Frame Support (Portal 1219x1829)	0.0	20.70	2.54	10.0%	10.0%	3.3	0	0	230	10.0%	26.3%	2.5%	day			70.3%	29.7%	16.4%	1641	5.04	70.3%	29.7%	16.4%				0.00	0.00
Q1561-011	Temporary Frame Support (bracing 914 x 1219)	0.0	2.90	0.36	10.0%	10.0%	3.3	0	0	230	10.0%	30.0%	2.5%	day			69.7%	30.3%	16.3%	1690	0.74	69.7%	30.3%	16.3%				0.00	0.00
Q1561-012	Temporary Frame Support (bracing 1219 x 1219)	0.0	3.30	0.38	10.0%	10.0%	3.3	0	0	230	10.0%	30.0%	2.5%	day			69.7%	30.3%	16.3%	1690	0.78	69.7%	30.3%	16.3%				0.00	0.00
Q1561-013	Temporary Frame Support (bracing 1829 x 1219)	0.0	4.20	0.43	10.0%	10.0%	3.3	0	0	230	10.0%	30.0%	2.5%	day			69.7%	30.3%	16.3%	1690	0.89	69.7%	30.3%	16.3%				0.00	0.00