



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



MINISTRY OF PUBLIC WORKS  
REPUBLIC OF INDONESIA

**DETAILED DESIGN STUDY  
OF  
NORTH JAVA CORRIDOR FLYOVER PROJECT  
IN THE REPUBLIC OF INDONESIA**

**FINAL REPORT  
DETAILED UNIT PRICE ANALYSIS  
(MERAK FLYOVER)**

**DECEMBER 2006**



**KATAHIRA & ENGINEERS INTERNATIONAL**

<b>SD</b>
<b>CR(5)</b>
<b>06-090</b>

**THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
UNIT COST ANALYSIS AND BILL OF QUANTITIES  
MERAK FLYOVER**

**TABLE OF CONTENTS**

	Page
1 Bill of Quantities	1
2 Labour Rates	5
3 Construction Materials Basic Prices	6
4 Construction Equipment Rental Rates	9
5 Division - 1 : General	1-1 -- 1-15
6 Division - 2 : Drainage	2-1 -- 2-35
7 Division - 3 : Earthworks	3-1 -- 3-18
8 Division - 4 : Pavement Widening and Shoulders	4-1 -- 4-1
9 Division - 5 : Granular Pavement	5-1 -- 5-2
10 Division - 6 : Asphalt Pavement	6-1 -- 6-5
11 Division - 7 : Structures	7-1 -- 7-55
12 Division - 8 : Miscellaneous	8-1 -- 8-15
13 Division - 9 : Facilities	9-1 -- 9-20
14 Relocation & Protection of Existing Utilities	Add-1 -- Add-8

**THE NORTH JAVA CORRIDOR FLY OVER  
SIX FLY OVER CONSTRUCTION PROJECT basic- Detailed Engineering Design  
SUMMARY BILL OF QUANTITY**

Package No. : 1  
 Package Name : MERAK FLY OVER  
 Province : BANTEN  
 Contractor :

DIVISION NO.	DESCRIPTION	TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT) RUPIAH
		FOREIGN	LOCAL	
		RUPIAH	RUPIAH	
1	GENERAL	-	2,734,197,255.19	2,734,197,255.19
2	DRAINAGE	1,688,666,732.96	2,870,298,705.70	4,558,965,438.66
3	EARTHWORKS	4,095,337,390.20	4,962,096,750.75	9,057,434,140.95
4	PAVEMENT WIDENING AND SHOULDERS	-	19,731,429.31	19,731,429.31
5	GRANULAR PAVEMENT	-	1,979,881,470.14	1,979,881,470.14
6	ASPHALT PAVEMENT	-	5,050,049,205.70	5,050,049,205.70
7	STRUCTURES	18,299,984,952.19	24,376,153,031.82	42,676,137,984.01
8	MISCELLANEOUS	546,329,228.51	753,401,391.01	1,299,730,619.52
9	FACILITIES	-	1,262,571,555.73	1,262,571,555.73
<b>DIRECT COST</b>		<b>24,630,318,303.86</b>	<b>44,008,380,795.35</b>	<b>68,638,699,099.21</b>
<b>VAT ( 10 % )</b>				<b>6,863,869,909.92</b>
<b>TOTAL CONSTRUCTION COST</b>				<b>75,502,569,009.13</b>
<b>PORTION PERCENTAGE</b>		<b>35.88</b>	<b>64.12</b>	<b>100.00</b>

**THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
BILL OF QUANTITIES**

Package No. : 1  
 Package Name : MERAK FLY OVER  
 Province : BANTEN  
 Contractor :

MERAK FO

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST ( VAT EXCLUDED )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS	
				FOREIGN	LOCAL	FOREIGN	LOCAL			
				RUPIAH	RUPIAH	RUPIAH	RUPIAH	RUPIAH		
a	b	c	d	e	f	g = d x e	h = d x f	k		
<b>DIVISION 1 - GENERAL</b>										
1.2	Mobilization and Demobilization	LS	1.00	-	1,901,871,092.48	-	1,901,871,092.48	-	1,901,871,092.48	
1.2.(1)b	Engineer Facilities	LS	1.00	-	181,885,000.00	-	181,885,000.00	-	181,885,000.00	
1.8	Maintenance and Protection of Traffic	LS	1.00	-	650,441,162.71	-	650,441,162.71	-	650,441,162.71	
<b>SUB TOTAL FOR DIVISION 1</b>							<b>2,734,197,255.19</b>		<b>2,734,197,255.19</b>	
<b>DIV. 2 - DRAINAGE</b>										
2.1.(1)	Common Excavation for drainage ditches and waterways	Cu.M	150.00	-	26,941.10	-	4,041,165.00	-	4,041,165.00	
2.2.(1)	Mortared Stonework for drainage channel	Cu.M	10.58	-	461,875.61	-	4,886,182.08	-	4,886,182.08	
2.3.(1)	Reinforced Concrete Pipe Culvert Dia 400 mm, Type A	Ln.M	-	152,440.00	442,009.38	-	-	-	-	
2.3.(2)	Reinforced Concrete Pipe Culvert Dia 400 mm, Type B	Ln.M	-	152,440.00	1,521,924.64	-	-	-	-	
2.3.(3)	Reinforced Concrete Pipe Culvert Dia 600 mm, Type A	Ln.M	-	269,600.00	593,849.32	-	-	-	-	
2.3.(4)	Reinforced Concrete Pipe Culvert Dia 600 mm, Type B	Ln.M	39.70	-	1,915,857,326.52	10,703,120.00	85,736,904.84	-	86,590,224.84	
2.3.(5)	Reinforced Concrete Pipe Culvert Dia 800 mm, Type A	Ln.M	631.70	428,960.00	948,647.32	270,974,032.00	599,260,512.04	870,234,544.04	-	
2.3.(6)	Reinforced Concrete Pipe Culvert Dia 800 mm, Type B	Ln.M	401.10	428,960.00	2,408,543.53	172,055,856.00	966,066,809.88	1,138,122,665.88	-	
2.3.(7)	Reinforced Concrete Pipe Culvert Dia 1000 mm, Type A	Ln.M	-	697,760.00	1,107,509.61	-	-	-	-	
2.3.(8)	Reinforced Concrete Pipe Culvert Dia.1000 mm, Type B	Ln.M	-	697,760.00	2,887,230.26	-	-	-	-	
2.3.(9)a	Manhole Type I	Each	60.00	-	2,477,246.49	-	148,634,789.40	148,634,789.40	-	
2.3.(9)b	Manhole Type II	Each	-	-	2,427,347.71	-	-	-	-	
2.3.(9)c	Manhole Type III	Each	17.00	-	4,588,573.76	-	78,005,753.92	78,005,753.92	-	
2.3.(9)d	Manhole Type IV	Each	-	-	4,335,692.16	-	-	-	-	
2.3.(9)e	Manhole Type V	Each	6.00	-	4,016,230.75	-	24,097,384.50	24,097,384.50	-	
2.3.(9)f	Manhole Type VI	Each	9.00	-	4,257,954.90	-	38,321,594.10	38,321,594.10	-	
2.3.(9)g	Manhole Type VII	Each	21.00	-	1,493,343.93	-	31,360,222.53	31,360,222.53	-	
2.3.(9)h	Manhole Type VIII	Each	1.00	-	5,351,753.74	-	5,351,753.74	5,351,753.74	-	
2.3.(9)i	Manhole Type IX	Each	33.00	-	5,149,104.41	-	169,920,445.53	169,920,445.53	-	
2.3.(9)j	Manhole Type X	Each	3.00	-	6,662,929.91	-	19,988,789.73	19,988,789.73	-	
2.3.(10)	Catch Basin Type I	Each	18.00	-	669,685.12	-	12,054,332.16	12,054,332.16	-	
2.3.(12)a	U - Ditch, DS - 1	Ln.M	201.60	436,086.80	179,708.20	87,915,988.88	36,223,173.12	124,144,272.00	-	
2.3.(12)b	U - Ditch, DS - 2	Ln.M	-	651,380.14	218,241.01	-	-	-	-	
2.3.(12)c	U - Ditch, DS - 3	Ln.M	-	670,875.06	297,926.55	-	-	-	-	
2.3.(12)d	U - Ditch, DS - 3 A	Ln.M	-	507,277.55	281,566.80	-	-	-	-	
2.3.(12)e	U - Ditch, DS - 4	Ln.M	1,148.50	731,222.95	252,379.45	839,809,558.08	289,857,798.33	1,129,667,356.41	-	
2.3.(12)f	U - Ditch, DS - 4 A	Ln.M	60.00	541,820.30	241,440.92	32,509,218.00	14,486,455.20	46,995,673.20	-	
2.3.(12)g	U - Ditch, DS - 5	Ln.M	260.00	335,567.50	161,654.74	87,247,550.00	42,030,180.40	129,277,730.40	-	
2.3.(13)	Drain Pipe Dia 150 mm	Ln.M	-	-	167,556.55	-	-	-	-	
2.3.(14)	Drain Pipe Dia 200 mm	Ln.M	232.34	-	273,171.18	-	63,468,591.96	63,468,591.96	-	
2.3.(15)	Drain Pipe Dia 250 mm	Ln.M	213.30	-	410,350.53	-	87,527,768.05	87,527,768.05	-	
2.3.(16)	Deck Drain Type I	Each	-	-	875,745.24	-	-	-	-	
2.3.(17)	Deck Drain Type II	Each	37.00	-	2,437,745.24	-	90,196,573.88	90,196,573.88	-	
2.3.(18)	Steel Gutter Drain Screen	Ln.M	28.00	6,694,725.00	708,440.77	187,452,300.00	19,836,573.56	207,288,873.56	-	
2.3.(19)	Outer Ditch for Viaduct	Ln.M	105.00	-	463,266.15	-	48,642,945.75	48,642,945.75	-	
<b>SUB TOTAL FOR DIVISION 2</b>							<b>1,688,666,732.96</b>	<b>2,870,298,705.70</b>	<b>4,558,965,438.66</b>	

THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
BILL OF QUANTITIES

MERAK FO

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS
				FOREIGN	LOCAL	FOREIGN	LOCAL		
				RUPIAH	RUPIAH	RUPIAH	RUPIAH	RUPIAH	
a	b	c	d	e	f	g = d x e	h = d x f	k	
<b>DIV. 3 - EARTHWORKS</b>									
3.1 (1)	Clearing and Grubbing	Sq.M	4,147.44	-	3,103.79	-	12,872,789.01	12,872,789.01	
3.1 (2)	Selected Tree Removal Diameter ≥ 200 mm ≤ 300 mm	Each	3.00	-	165,120.35	-	495,361.05	495,361.05	
3.1 (3)	Selected Tree Removal Diameter > 300 mm	Each	2.00	-	295,360.63	-	590,721.26	590,721.26	
3.2 (1)	Common Excavation	Cu. M	4,723.86	-	17,615.72	-	83,214,265.54	83,214,265.54	
3.2 (2)	Excavation of Existing Pavement	Cu. M	666.41	-	58,082.87	-	38,706,889.23	38,706,889.23	
3.2 (3)	Structure Excavation to a depth not exceeding 2 m	Cu. M	759.35	-	28,767.11	-	21,844,304.98	21,844,304.98	
3.2 (4)	Structure Excavation to a depth greater than 2 m but not exceeding 4 m	Cu. M	72.66	-	34,074.56	-	2,475,857.53	2,475,857.53	
3.2 (5)	Structure Excavation to a depth greater than 4 m	Cu. M	-	-	45,124.68	-	-	-	
3.2 (7)	Rock Excavation	Cu. M	-	-	93,800.21	-	-	-	
3.3 (1)	Borrow materials and common backfill	Cu. M	12,872.32	-	124,581.61	-	1,603,654,848.36	1,603,654,848.36	
3.3 (2)	Structural Backfill	Cu. M	-	-	161,734.77	-	-	-	
3.3 (3)	Permeable Backfill	Cu. M	9.31	-	178,731.62	-	1,664,527.58	1,664,527.58	
SS 3.3	Soil Cement Improvement	Cu. M	3,957.17	-	530,080.20	-	2,097,618,525.19	2,097,618,525.19	
3.3 (4)	Lighweight Embankment	Cu. M	-	-	427,646.27	-	-	-	
3.3 (6)	Intermediate Concrete Slab	Sq.M	-	-	161,269.54	-	-	-	
3.4 (1)	Soil Cement Preparation	Sq. M	9,774.00	-	5,268.91	-	51,498,326.34	51,498,326.34	
SS 3.5 (1)	Mechanical Stabilized Earthwall	Sq. M	3,339.11	1,226,475.00	313,694.28	4,095,337,390.20	1,047,460,334.68	5,142,797,724.88	
SS 3.5 (2)	Retaining Wall for Lighweight Embankment	Sq. M	-	-	1,225,587.64	-	-	-	
<b>SUB TOTAL FOR DIVISION 3</b>							<b>4,962,096,750.75</b>	<b>9,057,434,140.95</b>	

MERAK FO

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS
				FOREIGN	LOCAL	FOREIGN	LOCAL		
				RUPIAH	RUPIAH	RUPIAH	RUPIAH	RUPIAH	
a	b	c	d	e	f	g = d x e	h = d x f	k	
<b>DIVISION 4 PAVEMENT WIDENING AND SHOULDERS</b>									
4.2 (2)	Aggregate Sub Base Class B	Cu. M	99.60	-	198,106.72	-	19,731,429.31	19,731,429.31	
<b>SUB TOTAL FOR DIVISION 4</b>							<b>19,731,429.31</b>	<b>19,731,429.31</b>	
<b>DIVISION 5 GRANULAR PAVEMENT</b>									
5.1 (1)	Aggregate Sub Base Class A	Cu. M	3,909.60	-	227,160.89	-	888,108,215.54	888,108,215.54	
5.1 (2)	Aggregate Sub Base Class B	Cu. M	5,334.00	-	204,681.90	-	1,091,773,254.60	1,091,773,254.60	
<b>SUB TOTAL FOR DIVISION 5</b>							<b>1,979,881,470.14</b>	<b>1,979,881,470.14</b>	
<b>DIVISION 6 ASPHALT PAVEMENT</b>									
6.1 (1)	Prime Coat	Litre	10,496.68	-	8,211.13	-	86,189,604.05	86,189,604.05	
6.1 (2)	Tack Coat	Litre	18,385.85	-	9,165.98	-	168,524,333.38	168,524,333.38	
6.3 (1)	Asphalt Concrete Wearing Course (AC-WC)	Ton	2,254.84	-	802,610.87	-	1,809,759,094.11	1,809,759,094.11	
6.3 (2)	Asphalt Concrete Binder Course (AC-BC)	Ton	1,734.90	-	773,486.60	-	1,341,921,902.34	1,341,921,902.34	
6.3 (3)	Asphalt Concrete Base (AC-Base)	Ton	2,345.55	-	700,754.31	-	1,643,654,271.82	1,643,654,271.82	
<b>SUB TOTAL FOR DIVISION 6</b>							<b>5,050,049,205.70</b>	<b>5,050,049,205.70</b>	

**THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
BILL OF QUANTITIES**

MERAK FO

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS
				FOREIGN	LOCAL	FOREIGN	LOCAL	RUPIAH	
				RUPIAH	RUPIAH	RUPIAH	RUPIAH	RUPIAH	
a	b	c	d	e	f	g = d x e	h = d x f	k	
<b>DIVISION 7 STRUCTURES</b>									
7.1.(1)a	Structure Concrete, Class A - (Fc = 35 Mpa) for Post Tension Girder	Cu m	1,057.99	200,000.00	1,670,349.37	211,598,000.00	1,767,212,929.97	1,978,810,929.97	
7.1.(1)b	Structure Concrete, Class A - (Fc = 35 Mpa) for Steel Girder	Cu m	560.12	200,000.00	2,601,440.37	112,024,000.00	1,457,118,780.04	1,569,142,780.04	
7.1.(2)a	Structure Concrete, Class B - (Fc = 30 Mpa) for Pier Head	Cu m	151.58	200,000.00	1,142,256.74	30,316,000.00	173,143,276.65	203,459,276.65	
7.1.(2)b	Structure Concrete, Class B - (Fc = 30 Mpa) for Coullumn	Cu m	254.10	-	1,044,936.11	-	265,518,265.55	265,518,265.55	
7.1.(2)c	Structure Concrete, Class B - (Fc = 30 Mpa) for Composite Coullumn	Cu m	72.47	4,726,901.81	1,766,232.58	342,549,120.37	129,444,702.61	471,993,822.98	
7.1.(2)d	Structure Concrete, Class B - (Fc = 30 Mpa) for Abutment	Cu m	151.36	-	904,205.18	-	136,860,496.04	136,860,496.04	
7.1.(3)a	Structure Concrete, Class B-1 (Fc = 28 Mpa) for Barrier, Median	Cu m	-	-	863,259.91	-	-	-	
7.1.(3)b	Structure Concrete, Class B-1 (Fc = 28 Mpa) for Parapet, Wall	Cu m	1,067.36	-	816,349.60	-	871,338,909.06	871,338,909.06	
7.1.(5)	Structure Concrete, Class C (Fc=24 Mpa) for Footing, Approach Slab, Retaining Wall	Cu m	394.91	-	796,678.06	-	314,616,132.67	314,616,132.67	
7.1.(6)	Structure Concrete, Class D (fc= 20Mpa)	Cu m	-	-	636,848.30	-	-	-	
7.1.(8)	Lean Concrete, Class E (fc= 17 Mpa)	Cu m	30.22	-	521,323.22	-	15,754,387.71	15,754,387.71	
SS 7.1.(9)	Waterproofing on Deck	SqM	3,216.49	-	39,915.51	-	128,387,838.76	128,387,838.76	
SS 7.1.(10)	Structure Casing for Bored Pile (Inner Ribbed Surface t = 13 mm)	Kg	33,629.40	13,500.00	1,694.30	453,996,900.00	56,978,292.42	510,975,192.42	
SS 7.1.(11)	Structure Casing for Bored Pile (Erected)	Kg	33,629.40	-	442.37	-	14,876,637.68	2,568,637.68	
7.2.(9)	PC Strand Size 12.7 mm	Kg	22,997.00	39,012.52	20,413.06	897,170,922.44	469,439,140.82	1,366,610,063.26	
7.2.(9)a	PC Strand Size 21.8 mm	Kg	4,072.52	44,535.21	58,796.10	181,370,533.43	239,448,293.17	420,818,826.60	
7.3.(3)	PC Bar	Kg	26,813.22	25,808.02	18,583.05	691,996,118.02	498,271,407.92	1,190,267,525.94	
7.3.(4)	Reinforcing Steel Bars Grade 40	Kg	550,830.32	-	10,388.68	-	5,722,399,928.78	5,722,399,928.78	
7.5.(1)	Furnish and Delivery of Steel Girder	Ton	338.41	18,741,413.00	2,343,434.00	6,342,281,573.33	793,041,499.94	7,135,323,073.27	
7.5.(1)a	Furnish and Delivery of Steel Coping and Portal	Ton	114.49	19,875,330.00	2,456,628.00	2,275,526,531.70	281,281,894.25	2,556,808,425.95	
7.5.(3)	Erection of Steel Girder	Ton	338.41	-	1,534,937.67	-	519,438,256.90	519,438,256.90	
7.5.(4)	Erection of Steel Coping and Portal	Ton	114.49	-	355,135.97	-	40,659,517.21	40,659,517.21	
7.6.(22)	Cast in Place Concrete Bored Pile, Dia 1500 mm	Ln. M	128.00	2,768,180.00	4,333,458.80	354,327,040.00	554,682,726.40	909,009,766.40	
7.6.(23)	Cast in Place Concrete Bored Pile, Dia 1800 mm	Ln. M	248.00	-	9,381,688.58	-	2,326,658,767.84	2,326,658,767.84	
7.6.(26)	Cast in Place Concrete Bored Pile, Dia 2500 mm	Ln. M	461.00	9,184,518.90	13,187,954.50	4,234,063,212.90	6,079,647,024.50	10,313,710,237.40	
7.6.(27)	Pile Integrity Test	Each	33.00	-	1,369,260.27	-	45,185,588.91	45,185,588.91	
SS7.6.(28)	Pile Dynamic Analysis (PDA) , Dia 1500 mm	Each	1.00	-	21,598,664.22	-	21,598,664.22	21,598,664.22	
SS7.6.(29)a	Pile Dynamic Analysis (PDA) , Dia 1800 mm	Each	1.00	-	24,348,664.22	-	24,348,664.22	24,348,664.22	
SS7.6.(29)b	Pile Dynamic Analysis (PDA) , Dia 2500 mm	Each	1.00	-	27,098,664.22	-	27,098,664.22	27,098,664.22	
7.9.(1)	Stone masonry	Cu. M	103.69	-	555,551.68	-	57,605,153.70	57,605,153.70	
7.9.(2)	Blinding Stone	Cu. M	-	-	232,373.49	-	-	-	
7.11.(2)	Expansion Joint ( Type A )	Ln. M	55.34	-	1,932,987.44	-	106,971,524.93	106,971,524.93	
SS7.11.(4)	Restrainer Type - A	Set	4.00	43,512,000.00	4,539,317.63	174,048,000.00	18,157,270.52	192,205,270.52	
SS7.11.(5)	Restrainer Type - B	Set	4.00	33,339,750.00	3,522,092.63	133,359,000.00	14,088,370.52	147,447,370.52	
SS7.11.(6)	Stopper for Steel Girder	Set	4.00	90,112,500.00	9,199,367.63	360,450,000.00	36,797,470.52	397,247,470.52	
7.12.(2)	Elastomeric Bearing Pad, Type - A1	Set	6.00	7,368,000.00	854,503.19	44,208,000.00	5,127,019.14	49,335,019.14	
7.12.(2)a	Elastomeric Bearing Pad, Type - A2	Set	2.00	9,247,500.00	1,043,553.19	18,495,000.00	2,087,106.38	20,582,106.38	
7.12.(2)b	Elastomeric Bearing Pad, Type - A3	Set	-	18,774,600.00	2,029,537.74	-	-	-	
7.12.(2)c	Elastomeric Bearing Pad, Type - A4	Set	-	14,568,000.00	1,608,877.74	-	-	-	
7.12.(7)a	Bridge Bearing for Steel Girder, Type - B1	Set	2.00	70,462,500.00	7,231,346.49	140,925,000.00	14,462,692.98	155,387,692.98	
7.12.(7)b	Bridge Bearing for Steel Girder, Type - B1	Set	4.00	52,140,000.00	5,399,096.49	208,560,000.00	23,056,385.96	230,156,385.96	
7.12.(7)c	Bridge Bearing for Steel Girder, Type - C1	Set	2.00	128,915,000.00	13,176,586.49	259,830,000.00	26,353,192.98	286,183,192.98	
7.12.(7)d	Bridge Bearing for Steel Girder, Type - C2	Set	1.00	184,147,500.00	18,599,846.49	184,147,500.00	18,599,846.49	202,747,346.49	
7.12.(7)e	Bridge Bearing for Steel Girder, Type - C3	Set	2.00	311,160,000.00	31,323,098.49	622,320,000.00	62,646,192.98	684,966,192.98	
7.12.(7)f	Bridge Bearing for Steel Girder, Type - C4	Set	1.00	26,422,500.00	2,849,346.49	26,422,500.00	2,849,346.49	29,271,846.49	
7.13	Steel Bridge Railings	Ln. M	2,063.52	-	461,455.25	-	952,223,060.39	952,223,060.39	
7.14	Bridge Name Plate	Each	2.00	-	1,300,884.71	-	2,601,769.42	2,601,769.42	
7.15.(1)	Demolition of Existing Structure Masonry	Cu m	111.84	-	82,851.03	-	10,384,552.05	10,384,552.05	
7.15.(2)	Demolition of Existing Structure Concrete	Cu m	115.48	-	134,116.18	-	15,487,736.47	15,487,736.47	
7.15.(10)	Demolition of Existing Rigid Pavement	Sq.M	-	-	40,160.76	-	-	-	
7.15.(11)	Demolition of Existing Hedge or Fence	Ln.M	273.28	-	30,916.80	-	8,448,943.10	8,448,943.10	
7.15.(12)	Demolition of Existing Concrete Side Walk	SqM	697.14	-	27,974.93	-	19,502,442.70	19,502,442.70	
7.15.(13)	Demolition of Existing Concrete Curb	Ln.M	354.54	-	16,111.63	-	5,712,265.64	5,712,265.64	
7.16.(2)	Rigid Pavement ( t = 270 mm )	SqM	-	-	252,578.72	-	-	-	
7.17.(1)	Lean Concrete for Rigid Pavement( t = 100 mm )	SqM	-	-	44,550.10	-	-	-	
<b>SUB TOTAL FOR DIVISION 7</b>							<b>18,299,984,952.19</b>	<b>24,376,153,031.82</b>	<b>42,676,137,984.01</b>

MERAK FO

**THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
- BILL OF QUANTITIES**

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS
				FOREIGN	LOCAL	FOREIGN	LOCAL	RUPIAH	
				RUPIAH	RUPIAH	RUPIAH	RUPIAH		
a	b	c	d	e	f	g = d x e	h = d x f	k	
	<b>DIVISION 8 - MISCELLANEOUS</b>								
8.1.(1)	Solid Sodding	Sq. M	2,314.57	-	12,240.84	-	28,332,268.80	28,332,268.80	
8.3.(1)	Vehicle Guardrail Type A	Ln M	-	-	415,049.31	-	-	-	
8.3.(13)	BRC Fence	Ln M	-	-	153,502.34	-	-	-	
8.3.(15)	Guard Fence over Railway	Ln.M	-	-	747,558.30	-	-	-	
8.4.(1)	Regulatory and Warning Sign, Type A	Each	44.00	-	615,246.42	-	27,070,842.48	27,070,842.48	
8.4.(2)	Regulatory and Warning Sign, Type B	Each	11.00	-	1,106,399.25	-	12,170,391.75	12,170,391.75	
8.5.(17)	Overhead Sign, Type A	Each	5.00	-	20,869,308.70	-	104,346,543.50	104,346,543.50	
8.5.(19)	Overhead Sign, Type C	Each	-	-	73,499,051.20	-	-	-	
8.6.(6)	Reflective Thermoplastic Pavement Marking	Sq. M	916.20	-	138,829.38	-	127,195,477.96	127,195,477.96	
8.8.(1)	Precast Concrete Curb, Type A	Ln M	2,170.74	44,487.23	49,038.60	96,570,209.65	106,450,050.56	203,020,260.21	
8.8.(2)	Precast Concrete Curb, Type B	Ln M	2,454.56	183,234.07	103,258.28	449,759,018.86	253,453,643.76	703,212,662.62	
8.9.(3)	Concrete Median, Type A	Ln M	-	-	226,099.17	-	-	-	
8.9.(4)	Concrete Median, Type B	Ln M	-	-	704,747.48	-	-	-	
8.9.(5)	Concrete Sidewalk	Sq.M	1,090.36	-	86,560.56	-	94,382,172.20	94,382,172.20	
	<b>SUB TOTAL FOR DIVISION 8</b>					<b>546,329,228.51</b>	<b>753,401,391.01</b>	<b>1,299,730,619.52</b>	

MERAK FO

NO. PAY ITEMS	DESCRIPTION	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		TOTAL COST (EXCLUDED VAT)	REMARKS
				FOREIGN	LOCAL	FOREIGN	LOCAL	RUPIAH	
				RUPIAH	RUPIAH	RUPIAH	RUPIAH		
a	b	c	d	e	f	g = d x e	h = d x f	k	
	<b>DIVISION 9 - FACILITIES</b>								
9.1.(1)	Street Lighting Pole, Type A ( 11 m )	Each	79.00	-	9,488,763.02	-	749,612,278.58	749,612,278.58	
9.1.(10)	Street Lighting Ceiling, Type A - Sont 150 watt	Each	17.00	-	2,435,067.81	-	41,396,152.77	41,396,152.77	
9.1.(10a)	Street Lighting Ceiling, Type B - Sont 250 watt	Each	6.00	-	2,600,067.81	-	15,600,406.86	15,600,406.86	
9.1.(12a)	Panel Type LP-PJU FO	Each	1.00	-	6,587,690.18	-	6,587,690.18	6,587,690.18	
9.1.(12b)	Panel Type LP-PJU 1	Each	1.00	-	6,202,690.18	-	6,202,690.18	6,202,690.18	
9.1.(12c)	Panel Type LP-PJU 2	Each	1.00	-	2,162,940.18	-	2,162,940.18	2,162,940.18	
9.1.(12d)	Panel Type LP-PJU 3	Each	1.00	-	2,197,133.49	-	2,197,133.49	2,197,133.49	
9.1.(12e)	Panel Type LP-PJU 4	Each	1.00	-	5,160,440.18	-	5,160,440.18	5,160,440.18	
9.1.(12f)	Panel Type LP-PJU 5	Each	1.00	-	2,547,940.18	-	2,547,940.18	2,547,940.18	
9.1.(12g)	Panel Type LP-PJU 6	Each	-	-	2,187,559.35	-	-	-	
9.1.(13)	Traffic Signal Head, Type A	Each	-	-	3,919,252.49	-	-	-	
9.1.(14)	Traffic Signal Head, Type B	Each	-	-	2,769,752.49	-	-	-	
9.1.(17)	Traffic Signal Pole, Type I	Each	-	-	4,270,009.18	-	-	-	
9.1.(18)	Traffic Signal Pole, Type II	Each	-	-	6,294,477.89	-	-	-	
9.1.(23)	Cable Type - 1 ( NYFGBY 2C - 2.5 mm2 )	Ln M	1,495.50	-	15,730.52	-	23,524,992.66	23,524,992.66	
9.1.(25)	Cable Type - 3 ( NYFGBY 4C - 10 mm2 )	Ln M	3,191.00	-	54,106.77	-	172,654,703.07	172,654,703.07	
9.1.(27)	Cable Type - 5 ( NYFGBY 4C - 25 mm2 )	Ln M	1,100.00	-	104,706.77	-	115,177,447.00	115,177,447.00	
9.1.(29)	Cable Type - 7 ( NYFGBY 4C - 50 mm2 )	Ln M	200.00	-	191,706.77	-	36,341,354.00	36,341,354.00	
9.1.(40)	Removal of Ligting Pole to stockpile	Each	16.00	-	5,212,836.65	-	83,405,386.40	83,405,386.40	
9.1.(41)	Removal of Ligting Signal to stockpile	Each	-	-	1,938,168.32	-	-	-	
	<b>SUB TOTAL FOR DIVISION 9</b>					-	<b>1,262,571,555.73</b>	<b>1,262,571,555.73</b>	
	<b>DIRECT COST</b>					<b>24,630,318,303.86</b>	<b>44,008,380,795.35</b>	<b>68,638,699,099.21</b>	
	<b>VAT ( 10 % )</b>					<b>2,463,031,830.39</b>	<b>4,400,838,079.54</b>	<b>6,863,869,909.92</b>	
	<b>CONSTRUCTION COST</b>					<b>27,093,350,134.25</b>	<b>48,409,218,874.89</b>	<b>75,502,569,009.13</b>	
	<b>PORTION PERCENTAGE</b>					<b>35.88</b>	<b>64.12</b>	<b>100.00</b>	

**LABOUR  
RATES**



**THE NORTH JAVA CORRIDOR FLYOVER PROJECT  
MERAK FLYOVER**

**COMPUTATION OF LABOUR RATES  
( Rupiah Per Hour )**

Merak - Banten

No.	Code	CATEGORY	Basic Salary / Day (Rp.)	BENEFITS ( DAILY )					TOTAL RATE (Rp. / Hour )	
				Leaves (Rp.)	THR ( Bonus ) (Rp.)	JAMSOSTEK (Rp.)	Health Insurance (Rp.)	Etc (Rp.)		
			( 1 )	(2)=(1)x12/365	(3)=(1)/12	(4)=(1)+(3)*5.74%	(5)=(1)+(3)*6%		(6)=(1)+(2)+(3)+(4)+(5)	(7)=(6)/7
1	(L01)	Superintendent	57,480.00	1,889.75	4,790.00	3,574.30	3,736.20		71,470.25	10,210.04
2	(L02)	Common Labour	36,000.00	1,183.56	3,000.00	2,238.60	2,340.00		44,762.16	6,394.59
3	(L03)	Skilled Labour	41,900.00	1,377.53	3,491.67	2,605.48	2,723.50		52,098.18	7,442.60
4	(L04)	Foremen	47,900.00	1,574.79	3,991.67	2,978.58	3,113.50		59,568.54	8,508.36
5	(L05)	Mason	41,900.00	1,377.53	3,491.67	2,605.48	2,723.50		52,098.18	7,442.60
6	(L06)	Carpenter	41,900.00	1,377.53	3,491.67	2,605.48	2,723.50		52,098.18	7,442.60
7	(L07)	Painter	41,900.00	1,377.53	3,491.67	2,605.48	2,723.50		52,098.18	7,442.60
8	(L08)	Electrician	50,000.00	1,643.84	4,166.67	3,109.17	3,250.00		62,169.67	8,881.38
9	(L09)	Operator Heavy Equipment	53,900.00	1,772.05	4,491.67	3,351.68	3,503.50		67,018.90	9,574.13
10	(L10)	Operator Light Equipment	43,120.00	1,417.64	3,593.33	2,681.35	2,802.80		53,615.12	7,659.30
11	(L11)	Operator Assistant	35,900.00	1,180.27	2,991.67	2,232.38	2,333.50		44,637.82	6,376.83
12	(L12)	Mechanic	35,900.00	1,180.27	2,991.67	2,232.38	2,333.50		44,637.82	6,376.83
13	(L13)	Mechanic Assistant	35,900.00	1,180.27	2,991.67	2,232.38	2,333.50		44,637.82	6,376.83
14	(L14)	Driver	35,900.00	1,180.27	2,991.67	2,232.38	2,333.50		44,637.82	6,376.83

DAILY SALARY IS BASED ON 7 HOURS A DAY

- 1 12 month / Year → Basic Salary x 12 / 365
- 2 1 Month Salary / Year → Basic Salary / 12
- 3 7.74 % ( Accident Benefit 1.74 % + Death Benefits 0.3 % + old Age Benefit 3.7 % = 5.74 % by Employer old age benefits 2.00 % by Employee )
- 4 Basic Salary x 6.0 % ( with Family )

**CONSTRUCTION MATERIAL  
BASIC PRICES**

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**

**LIST OF MATERIAL BASIC RATE**

LOCATION : Banten

No.	CODE	DESCRIPTION	UNIT	UNIT PRICE (Rp.)	FOREIGN PORTION (Rp.)	LOCAL PORTION (Rp.)
1	(M01)	Common embankment material	CuM	77,700.00	-	77,700.00
2	(M02)	Selected embankment material	CuM	108,900.00	-	108,900.00
3	(M03)	Geotextile	SqM	25,000.00	-	25,000.00
4	(M04)	Selected Material	CuM	108,000.00	-	108,000.00
5	(M05)	Sand for embankment	CuM	118,300.00	-	118,300.00
6	(M06)	Sand for concrete	CuM	182,800.00	-	182,800.00
7	(M07)	Boulder / River stone	CuM	169,000.00	-	169,000.00
8	(M08)	Coarse Aggregate	CuM	146,700.00	-	146,700.00
9	(M09)	Fine Aggregate	CuM	155,500.00	-	155,500.00
10	(M10)	Filler	kg	1,000.00	-	1,000.00
11	(M11)	Gravel	CuM	176,600.00	-	176,600.00
12	(M12)	Cement	kg	800.00	-	800.00
13	(M13)	Plain Reinforced Steel	kg	6,087.94	-	6,087.94
14	(M14)	Deformed Reinforced Steel	kg	6,087.94	-	6,087.94
15	(M15)	Fabricated Steel Portal	Ton	22,332,155.00	19,875,330.00	2,456,825.00
16	(M16)	Fabricated Steel Box Girder	Ton	21,084,847.00	18,741,413.00	2,343,434.00
17	(M17)	Bending wire	kg	14,700.00	-	14,700.00
18	(M18)	Gabions wire	kg	16,200.00	-	16,200.00
19	(M19)	Nail	kg	8,900.00	-	8,900.00
20	(M20)	Steel Galvanized pipe Dia 2.0"	LnM	76,000.00	-	76,000.00
21	(M21)	Steel Galvanized pipe Dia 2.5"	LnM	92,600.00	-	92,600.00
22	(M22)	Asphalt Cement	kg	6,200.00	-	6,200.00
23	(M23)	Emulsified Asphalt	kg	6,200.00	-	6,200.00
24	(M24)	Kerosene	litre	2,794.50	-	2,794.50
25	(M25)	Gasoline fuel	litre	4,780.00	-	4,780.00
26	(M26)	Diesel fuel	litre	4,950.00	-	4,950.00
27	(M27)	Lubricant Oil	litre	25,200.00	-	25,200.00
28	(M28)	Scaffolding/Formwork	CuM	1,705,829.50	-	1,705,829.50
29	(M29)	Phenofilm t = 18 mm	SqM	60,763.89	-	60,763.89
30	(M30)	Stereoform t = 22 mm	SqM	184,500.00	-	184,500.00
31	(M31)	Tie bolt, dia. 13 mm	each	9,750.00	-	9,750.00
32	(M32)	Tie bolt, dia. 10 mm	each	9,750.00	-	9,750.00
33	(M33)	Form Oil	kg	22,500.00	-	22,500.00
34	(M34)	Bolt & Nut, dia. 12 mm x 30 mm	each	3,750.00	-	3,750.00
35	(M35)	PC Strand 12 T 12.7 mm	kg	12,619.30	12,537.30	82.00
36	(M36)	PC Strand 1 T 21.8 mm	kg	18,252.00	18,170.00	82.00
37	(M37)	PC Bar Dia 32.0 mm	kg	18,252.00	18,170.00	82.00
38	(M38)	Live Anchor Type 12 K 13	each	924,000.00	896,280.00	27,720.00
39	(M39)	Stopper For Steel	each	90,162,500.00	90,112,500.00	50,000.00
40	(M40)	Live Anchor Type 1K22	each	195,250.00	189,400.00	5,850.00
42	(M42)	Falling Prevention Device Type A	each	43,562,000.00	43,512,000.00	50,000.00
43	(M43)	Falling Prevention Device Type B	each	33,389,750.00	33,339,750.00	50,000.00
44	(M44)	Sheath Dia. 65 mm	LnM	39,600.00	38,400.00	1,200.00
45	(M45)	Sheath Dia. 55 mm	LnM	37,400.00	36,300.00	1,100.00
46	(M46)	Grouting paste, D >= 60 mm	LnM	12,650.00	-	12,650.00
47	(M47)	Grouting paste, D <= 60 mm	LnM	7,590.00	-	7,590.00
48	(M48)	Mechanical Bearing For Steel Girder Type A (Mov.), Dia.485x69.5 mm	set	70,477,500.00	70,462,500.00	15,000.00
49	(M49)	Mechanical Bearing For Steel Girder Type B (Mov.), Dia.400x65.5 mm	set	52,155,000.00	52,140,000.00	15,000.00
50	(M50)	Elastomeric Bearing Pad Type -1 (470x370x95 mm)	set	7,372,000.00	7,368,000.00	4,000.00
51	(M51)	Elastomeric Bearing Pad Type -2 (520x420x95 mm)	set	9,252,500.00	9,247,500.00	5,000.00
52	(M52)	Elastomeric Bearing Pad Type -3 (570x570x133 mm)	set	18,785,400.00	18,774,600.00	10,800.00
53	(M53)	Elastomeric Bearing Pad Type -4 (520x520x123 mm)	set	14,578,800.00	14,568,000.00	10,800.00
54	(M54)	Dead Anchorage for PC Bar	each	175,000.00	-	175,000.00
55	(M55)	Ducting, grouting	ln.m	195,250.00	189,400.00	5,850.00
56	(M56)	Coupler for 12 T 12.7	each	5,500,000.00	5,335,000.00	165,000.00
57	(M57)	RC Pipe, Dia. 1200 mm	LnM	926,280.00	926,280.00	-
58	(M58)	RC Pipe, Dia. 1000 mm	LnM	697,760.00	697,760.00	-
59	(M59)	RC Pipe, Dia. 800 mm	LnM	428,960.00	428,960.00	-
60	(M60)	RC Pipe, Dia. 600 mm	LnM	269,600.00	269,600.00	-
61	(M61)	PVC Dia. 6"	LnM	129,625.00	-	129,625.00
62	(M62)	PVC Dia. 8"	LnM	219,700.00	-	219,700.00
63	(M63)	Bend Dia. 6" / Socket Dia. 6"	each	22,070.00	-	22,070.00
64	(M64)	Bend Dia. 8" / Socket Dia. 8"	each	58,750.00	-	58,750.00
65	(M65)	Glass Beads	kg	14,800.00	-	14,800.00
66	(M66)	Sign Plate (High Intensity Grade)	each	1,578,000.00	-	1,578,000.00

## LIST OF MATERIAL BASIC RATE

LOCATION : Banten

No.	CODE	DESCRIPTION	UNIT	UNIT PRICE (Rp.)	FOREIGN PORTION (Rp.)	LOCAL PORTION (Rp.)
67	(M67)	Guard Rail	LnM	295,500.00	-	295,500.00
68	(M68)	Terminal beam of guard rail	each	562,000.00	-	562,000.00
69	(M69)	Post of Guard Rail	each	673,500.00	-	673,500.00
70	(M70)	Rail Post	each	141,750.00	-	141,750.00
71	(M71)	Guide Sign Plate Type A	each	304,000.00	-	304,000.00
72	(M72)	Guide Sign Plate Type B	each	608,000.00	-	608,000.00
73	(M73)	Paving Block	SqM	63,500.00	-	63,500.00
74	(M74)	Road Paint (Thermoplastic)	kg	18,000.00	-	18,000.00
75	(M75)	Reflector	each	42,000.00	-	42,000.00
76	(M76)	Curing Compound	Kg	14,850.00	-	14,850.00
77	(M77)	MSE WALL and Accessories	Sq.M	1,251,475.00	1,226,475.00	25,000.00
78	(M78)	Steel Gutter Screen	each	6,711,350.00	6,694,725.00	16,625.00
79	(M79)	Marmor for bridge name plate	each	1,000,000.00	-	1,000,000.00
80	(M80)	Epoxy mortar	kg	20,000.00	-	20,000.00
81	(M81)	Formwork & Scaffolding for PC Girder	CuM	679,653.83	-	679,653.83
82	(M82)	Formwork & Scaffolding for PC Slab of Steel Girder	CuM	1,741,666.46	-	1,741,666.46
83	(M83)	Inner Ribbed Steel Pipe dia 2500mm t = 13 mm	Ton	13,708,333.00	13,500,000.00	208,333.00
84	(M84)	Inner Ribbed Steel Pipe dia 1400mm t = 19 mm	Ton	11,085,606.00	11,025,000.00	60,606.00
86	(M86)	PVC Dia. 10"	LnM	309,625.00	-	309,625.00
87	(M87)	Bend Dia. 10" / Socket Dia. 10"	each	93,750.00	-	93,750.00
88	(M88)	Solid Sodding (Rumput Manila, Zoysia Matrela, Tandur)	SqM	7,900.00	-	7,900.00
89	(M89)	Tee for Drain Pipe 6"	each	65,910.00	-	65,910.00
90	(M90)	Tee for Drain Pipe 8"	each	95,000.00	-	95,000.00
91	(M91)	Tee for Drain Pipe 10"	each	125,000.00	-	125,000.00
92	(M92)	Support for Drain Pipe	each	5,000.00	-	5,000.00
93	(M93)	Deformed Reinforced Bar D 51 SD 345	kg	6,950.00	6,900.00	50.00
94	(M94)	Thinner	litre	25,800.00	-	25,800.00
95	(M95)	Splicing for D51	Set	321,250.00	320,250.00	1,000.00
96	(M96)	Lighting pole ( 11 m )and accessories	Each	5,410,500.00	-	5,410,500.00
97	(M97)	Lighting pole ( 13 m )and accessories	Each	6,410,500.00	-	6,410,500.00
98	(M98)	Lamp Son 250 w and accessories for PJJU	Each	1,400,000.00	-	1,400,000.00
99	(M99)	Foundation Type I for street lighting	Each	1,080,000.00	-	1,080,000.00
100	(M100)	Foundation Type II for panel	Each	750,000.00	-	750,000.00
101	(M101)	Anchor and Bolt ( Dia 22 )	Each	45,000.00	-	45,000.00
102	(M102)	PVC Pipe dia 1"	LnM	5,250.00	-	5,250.00
103	(M103)	PVC Conduit dia 2.5"	LnM	25,562.50	-	25,562.50
104	(M104)	Cable NYY 4 x 4 mm2	LnM	8,640.00	-	8,640.00
105	(M105)	Lamps and accessories Sont 150 w for ceiling	Each	1,800,000.00	-	1,800,000.00
106	(M106)	Indicator Lamp	Each	20,000.00	-	20,000.00
107	(M107)	MCB 16 A , 3 PC	Each	348,000.00	-	348,000.00
108	(M108)	MCB 10 A , 3 PC	Each	381,600.00	-	381,600.00
109	(M109)	Panel Box Type A ( 100 x 80 x 30 cm )	Each	250,000.00	-	250,000.00
110	(M110)	Cable G BCC 16 mm2	LnM	45,000.00	-	45,000.00
111	(M111)	Traffic Signal Head Type A ( 3 phase )	Each	3,145,000.00	-	3,145,000.00
112	(M112)	Traffic Signal Head Type B ( 2 phase )	Each	2,100,000.00	-	2,100,000.00
113	(M113)	Traffic Contol Signal and Accessories	Each	23,000,000.00	-	23,000,000.00
114	(M114)	Traffic Signal Pole Type I	Each	3,607,500.00	-	3,607,500.00
115	(M115)	Traffic Signal Pole Type II	Each	5,411,250.00	-	5,411,250.00
116	(M116)	Cable Type NYFGBY 2C X 2.5 mm	Ln.M	4,800.00	-	4,800.00
117	(M117)	Cable Type NYFGBY 4C X 10 mm	Ln.M	49,000.00	-	49,000.00
118	(M118)	Cable Type NYFGBY 4C X 25 mm	Ln.M	95,000.00	-	95,000.00
119	(M119)	Cable Type NYFGBY 4C X 50 mm	Ln.M	165,000.00	-	165,000.00
200	(M200)	KWH Meter	Each	900,000.00	-	900,000.00
201	(M201)	BRC Panel	Unit	154,075.00	-	154,075.00
202	(M202)	BRC Pole	Unit	64,500.00	-	64,500.00
203	(M203)	Beam ( 4 m )	each	639,100.00	-	639,100.00
204	(M204)	Post / Column ( 1.8 M )	each	337,700.00	-	337,700.00
205	(M205)	Blocking Piece	each	64,900.00	-	64,900.00
206	(M206)	Terminal End	each	346,500.00	-	346,500.00
207	(M207)	Deck Drain Type A	each	780,000.00	-	780,000.00
208	(M208)	Deck Drain Type B	each	2,200,000.00	-	2,200,000.00
209	(M209)	Admixture for Concrete Class A PC Girder	kg	10,050.00	10,000.00	50.00
210	(M210)	Frame & Accessories for Over sign Type A	unit	5,184,000.00	-	5,184,000.00
211	(M211)	H beam 300x300x10x15 for Over Head Sign	Ln.M	1,222,000.00	-	1,222,000.00
212	(M212)	H beam 350x350x12x19 for Over Head Sign	Ln.M	1,644,000.00	-	1,644,000.00
213	(M213)	Frame & Accessories for Over sign Type B	Unit	6,750,000.00	-	6,750,000.00
214	(M214)	Frame & Accessories for Over sign Type C	Unit	40,492,928.57	-	40,492,928.57
215	(M215)	H beam 300x300x10x15 for Over Head Sign	Ln.M	1,222,000.00	-	1,222,000.00
216	(M216)	Expantion Joint Asphaltic Type A	Ln.M	1,750,000.00	-	1,750,000.00
217	(M217)	Waterproofing material	Kg	18,000.00	-	18,000.00
218	(M218)	Amphere Metre	each	75,000.00	-	75,000.00
219	(M219)	Voit Metre	each	75,000.00	-	75,000.00

## LIST OF MATERIAL BASIC RATE

LOCATION : Banten

No.	CODE	DESCRIPTION	UNIT	UNIT PRICE (Rp.)	FOREIGN PORTION (Rp.)	LOCAL PORTION (Rp.)
220	(M220)	Time Switch	set	250,000.00	-	250,000.00
221	(M221)	MCB 3 P. 50 A	each	350,000.00	-	350,000.00
222	(M222)	LBS 125 A	each	375,000.00	-	375,000.00
223	(M223)	Contactora (Timer)	each	200,000.00	-	200,000.00
224	(M224)	Grounding for Panel	Ls	125,000.00	-	125,000.00
225	(M225)	Foundation Type III for Panel	each	550,000.00	-	550,000.00
226	(M226)	Panel Box Type B ( 70 x 60 x 30 cm )	each	202,500.00	-	202,500.00
227	(M227)	Mechanical Bearing For Steel Girder Type C (Fix.), Dia 580x77.0 mm	set	129,930,000.00	129,915,000.00	15,000.00
228	(M228)	Mechanical Bearing For Steel Girder Type D (Fix.), Dia 730x90.0 mm	set	184,162,500.00	184,147,500.00	15,000.00
229	(M229)	Mechanical Bearing For Steel Girder Type E (Fix.), Dia.935x112.0 mm	set	311,175,000.00	311,160,000.00	15,000.00
230	(M230)	Mechanical Bearing For Steel Girder Type F (Fix.), Dia.270x47.0 mm	set	26,437,500.00	26,422,500.00	15,000.00
231	(M231)	EPS Form Block	CuM	380,722.00	-	380,722.00
232	(M232)	Wiremass	Sq.M	31,240.00	-	31,240.00
233	(M233)	Fixed Anchor Dia 55 mm and Acc	each	199,440.00	-	199,440.00
234	(M234)	RC Pipe, Dia. 400 mm	LnM	152,440.00	152,440.00	-
235	(M235)	Lamps and accessories Sont 250 w for ceiling	Each	1,950,000.00	-	1,950,000.00
236	(M236)	Corrugated Steel Pipe	LnM	660,000.00	-	660,000.00
237	(M237)	Additive for Soil Improvement	kg	12,000.00	-	12,000.00
238	(M238)	Fabricated Iron Steel Bridge Iron for steel bridge railing	Ls	407,500.00	-	407,500.00
239	(M239)	Anchor Dia 25 x 200 mm for steel bridge railing	each	25,000.00	-	25,000.00
240	(M240)	Bolt for steel bridge railing	each	5,500.00	-	5,500.00
241	(M241)	Joint Sealant for concrete pavement	Ln.M	3,500.00	-	3,500.00
242	(M242)	Pipa dia 4 1/2 " for guard fence over railway	Ln.M	176,125.00	-	176,125.00
243	(M243)	Wire Net for guard fence over railway	Sq.M	7,500.00	-	7,500.00
244	(M244)	Wire for guard fence over railway	Ln.M	1,100.00	-	1,100.00
245	(M245)	H Coulumn for retaining wall for leightweight embankment	kg	13,000.00	-	13,000.00
<b>SPECIAL WORKS</b>						
(L01) Spw		Cable Installation < 7 Strand	each	42,314.58	-	42,314.58
(L02) Spw		Cable Installation 8 - 12 Strand	each	72,539.28	-	72,539.28
(L03) Spw		Stressing 12K13	Point	522,500.00	-	522,500.00
(L04) Spw		Stressing 1K22	Point	330,000.00	-	330,000.00

**CONSTRUCTION EQUIPMENT  
RENTAL RATES**

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**LIST OF EQUIPMENT RENTAL COST A HOUR**

No.	DESCRIPTION	CODE	HP	CAPACITY		EQUIPMENT PRICE	EQUIP. RENTAL COST/HOUR (Exlude VAT)	EQUIPMENT PRICE		REMARKS
								FOREIGN (Rp)	LOCAL (Rp)	
1	ASPHALT MIXING PLANT	(E01)	120.0	30.0	T/Hour	3,150,000,000.00	2,078,656.80	-	2,078,656.80	New equipment
2	ASPHALT FINISHER	(E02)	53.9	30.0	Ton	1,042,687,500.00	256,044.89	-	256,044.89	New Equipment
3	ASPHALT SPRAYER	(E03)	3.5	800.0	Liter	60,000,000.00	34,710.78	-	34,710.78	New equipment
4	BULLDOZER 100-150 HP	(E04)	110.0	-	-	756,000,000.00	269,306.13	-	269,306.13	New equipment
5	COMPRESSOR 4000-6500 LM	(E05)	80.0	-	-	71,000,000.00	123,276.35	-	123,276.35	New Equipment
6	CONCRETE MIXER 0.3-0.6 M3	(E06)	15.0	500.0	Liter	72,000,000.00	59,718.77	-	59,718.77	New equipment
7	CONCRETE VIBRATOR	(E07)	10.0	0.0	0.00	5,940,000.00	30,612.66	-	30,612.66	New equipment
8	CONCRETE PUMP	(E08)	140.0	30.0	M3	936,000,000.00	334,062.30	-	334,062.30	New equipment
9	CONCRETE CUTTER	(E09)	35.0	200.0	Meter	21,700,000.00	69,634.48	-	69,634.48	New equipment
10	BATCHING PLANT	(E10)	21.0	50.0	M3	3,036,000,000.00	695,662.10	-	695,662.10	New equipment
11	MIXER TRUCK (AT)	(E11)	22.0	6.0	M3	618,000,000.00	146,827.23	-	146,827.23	New equipment
12	EXCAVATOR 80-140 HP	(E12)	150.0	0.9	M3	909,920,000.00	340,755.29	-	340,755.29	New equipment
13	GENERATOR SET 125 KVA	(E13)	159.0	125.0	KVA	193,200,000.00	243,426.95	-	243,426.95	New equipment
14	GENERATOR SET, 25 KVA	(E14)	31.0	25.0	kVA	82,726,250.00	71,407.15	-	71,407.15	New equipment
15	MOTOR GRADER >100 HP	(E15)	116.0	-	-	987,000,000.00	315,993.64	-	315,993.64	New equipment
16	WHEEL LOADER 1.0-1.6 M3	(E16)	105.0	1.5	M3	796,180,000.00	270,655.03	-	270,655.03	New equipment
17	TANDEM ROLLER 6-8 T.	(E17)	75.0	8.0	Ton	607,500,000.00	204,397.17	-	204,397.17	New equipment
18	TIRE ROLLER 8-10 T.	(E18)	60.0	10.0	Ton	800,000,000.00	220,893.42	-	220,893.42	New equipment
19	VIBRATORY ROLLER 5-8 T.	(E19)	121.0	8.0	Ton	517,000,000.00	240,283.08	-	240,283.08	New equipment
20	STONE CRUSHER	(E20)	95.0	30.0	T/hour	1,446,000,000.00	371,873.12	-	371,873.12	New equipment
21	WATER PUMP 70-100 mm	(E21)	6.0	-	-	2,800,000.00	23,937.18	-	23,937.18	New equipment
22	WATER TANKER 3000-4500 L.	(E22)	120.0	3,800.0	Liter	298,200,000.00	226,906.38	-	226,906.38	New equipment
23	TAMPER	(E23)	4.1	0.1	Ton	10,860,000.00	24,023.26	-	24,023.26	New equipment
24	JACK HAMMER	(E24)	3.0	-	-	3,420,000.00	21,008.79	-	21,008.79	New equipment
25	PRESTRESSED JACK	(E25)	50.0	250.0	Amp	51,720,000.00	84,670.78	-	84,670.78	New equipment
26	GROUTING PUMP WITH MIXER	(E26)	3.7	200.0	Meter	37,620,000.00	29,141.88	-	29,141.88	New equipment
27	SAW MACHINE	(E27)	3.0	200.0	Meter	9,300,000.00	25,116.32	-	25,116.32	New equipment
28	WELDING MACHINE	(E28)	15.0	200.0	Amp	12,700,000.00	35,353.07	-	35,353.07	New equipment
29	HYDRAULIC TRUCK CRANE 35 T	(E29)	125.0	35.0	Ton	4,841,000,000.00	992,845.23	-	992,845.23	New equipment
30	ROUGH TERRAIN CRANE 90 TON	(E30)	200.0	100.0	Ton	7,990,000,000.00	1,621,680.23	-	1,621,680.23	New equipment
31	FLAT BED TRUCK WITH CRANE 5 T	(E31)	203.0	5.0	Ton	266,400,000.00	288,808.64	-	288,808.64	New equipment
32	TRAILLER TRUCK 20 T	(E32)	320.0	20.0	Ton	846,000,000.00	520,181.72	-	520,181.72	New equipment
33	LINE MARKER TRUCK	(E33)	150.0	14.0	M3	308,400,000.00	263,161.62	-	263,161.62	New equipment
34	SAND PUMP	(E34)	15.0	150.0	mm	31,320,000.00	53,944.63	-	53,944.63	New equipment
35	BORE PILE MACHINE DIA 1500	(E35)	110.0	1.5	M	3,264,000,000.00	703,206.46	-	703,206.46	New equipment
36	BORE PILE MACHINE DIA 2500	(E36)	110.0	2.5	M	4,470,000,000.00	911,852.31	-	911,852.31	New equipment
37	DUMP TRUCK 6 T	(E37)	100.0	6.0	Ton	273,600,000.00	198,128.75	-	198,128.75	New equipment
38	DUMP TRUCK 10 T	(E38)	125.0	10.0	Ton	410,008,000.00	261,450.05	-	261,450.05	New equipment
39	TRUCK CRANE 16 TON	(E39)	170.0	16.0	Ton	984,000,000.00	375,981.62	-	375,981.62	New equipment
40	TRUCK CRANE 50 TON	(E40)	340.0	50.0	Ton	2,937,600,000.00	904,452.14	-	904,452.14	New equipment
41	TRUCK CRANE 100 TON	(E41)	345.0	100.0	Ton	5,280,000,000.00	1,315,305.09	-	1,315,305.09	New equipment
42	TRUCK CRANE 30 TON	(E42)	224.0	30.0	Ton	2,114,820,000.00	632,127.84	-	632,127.84	New equipment
43	BENTONITE MIXER	(E43)	2.2	0.2	M3	32,640,000.00	30,259.36	-	30,259.36	New equipment
44	SLUSH TANK	(E44)	5.0	10.0	M3	31,620,000.00	33,005.01	-	33,005.01	New equipment
45	PORTABLE LIGHTING TOWERS	(E45)	5.0	0.0	0.00	108,100,000.00	96,375.13	-	96,375.13	New equipment
46	CRAWLER CRANE 50 T	(E46)	140.0	50.0	Ton	2,940,000,000.00	680,767.35	-	680,767.35	New equipment
47	CRAWLER CRANE 100 T	(E47)	160.0	100.0	Ton	6,757,500,000.00	1,363,629.71	-	1,363,629.71	New equipment
48	CRAWLER CRANE 150 T	(E48)	170.0	150.0	Ton	9,825,000,000.00	1,905,532.18	-	1,905,532.18	New equipment
49	CRAWLER CRANE 300 T	(E49)	190.0	200.0	Ton	25,275,000,000.00	4,600,892.77	-	4,600,892.77	New equipment
50	JET GROUT MACHINE	(E50)	112.0	62.5	M3	2,043,750,000.00	494,336.27	-	494,336.27	New equipment
51	TRUCK TRAILER 40 T	(E51)	390.0	40.0	M4	1,350,000,000.00	685,812.00	-	685,812.00	New equipment

**DETAILED  
UNIT PRICE  
ANALYSIS**



**DIVISION 1.**  
**GENERAL**

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER**

PROJECT  
PACKAGE CONTRACT No.  
PACKAGE NAME : **MERAK FO**  
PROV. / KAB /CITY  
NO. PAY ITEM : 1.2  
DESCRIPTION OF WORK : Mobilization and Demobilization  
UNIT OF MEASUREMENT : Ls

No.	DESCRIPTION	TOTAL PRICE		REMARKS
		FOREIGN (Rp.)	LOCAL (Rp.)	
A.	Land Rent for Barrack, Workshop Base Camp and Laboratory	-	227,000,000.00	Table 1.2.1
B.	EQUIPMENT Mobilization of Heavy Equipment	-	571,175,000.00	Table 1.2.2
C.	CONTRACTOR FACILITIES	-	231,900,000.00	Table 1.2.3 to Table 1.2.4
D.	LABORATORY FACILITIES	-	53,240,321.40	Table 1.2.6 to Table 1.2.10
E	EQUIPMENT Demobilization of Heavy Equipment	-	571,175,000.00	Table 1.2.11
F	OTHERS MOBILIZATION	-	247,380,771.08	Table 1.2.12
	<b>TOTAL COST OF MOBILIZATION AND DEMOLIZATION</b>	-	<b>1,901,871,092.48</b>	

PROJECT  
 PACKAGE CONTRACT No.  
 PACKAGE NAME : **MERAK FO**  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Land Rent , Base Camp , Office , Workshop and Laboratory  
 UNIT OF MEASUREMENT : LS

Table 1.2-1

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
1.	Contractor Office	SqM	200.00	-	200,000.00	-	40,000,000.00
2.	Land ( Rental )	SqM	2,000.00	-	35,000.00	-	70,000,000.00
3.	Workshop	SqM	400.00	-	180,000.00	-	72,000,000.00
4.	Laboratory	SqM	200.00	-	225,000.00	-	45,000,000.00
<b>D. TOTAL PRICE</b>						-	227,000,000.00

PROJECT  
PACKAGE CONTRACT No.  
PACKAGE NAME : MERAK FO  
PROV. / KAB /CITY  
NO. PAY ITEM  
DESCRIPTION OF WORK : MOBILIZATION OF HEAVY EQUIPMENT  
UNIT OF MEASUREMENT : LS

Table 1.2-2

No.	KIND OF EQUIPMENT	EQUIP. CODE	UNIT	QUANTITY	UNIT PRICE		TOTAL PRICE	
					FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>B. EQUIPMENT</b>								
1	ASPHALT MIXING PLANT	(E01)	Unit	-	-	-	-	-
2	ASPHALT FINISHER	(E02)	Unit	1.00	-	1,500,000.00	-	1,500,000.00
3	ASPHALT SPRAYER	(E03)	Unit	1.00	-	150,000.00	-	150,000.00
4	BULLDOZER 100-150 HP	(E04)	Unit	1.00	-	1,200,000.00	-	1,200,000.00
5	COMPRESSOR 4000-6500 L/M	(E05)	Unit	1.00	-	150,000.00	-	150,000.00
6	CONCRETE MIXER 0.3-0.6 M3	(E06)	Unit	2.00	-	150,000.00	-	300,000.00
7	CONCRETE VIBRATOR	(E07)	Unit	4.00	-	75,000.00	-	300,000.00
8	CONCRETE PUMP	(E08)	Unit	1.00	-	75,000.00	-	75,000.00
9	CONCRETE CUTTER	(E09)	Unit	1.00	-	50,000.00	-	50,000.00
10	BATCHING PLANT	(E10)	Unit	-	-	-	-	-
11	MIXER TRUCK (AT)	(E11)	Unit	8.00	-	250,000.00	-	2,000,000.00
12	EXCAVATOR 80-140 HP	(E12)	Unit	2.00	-	1,500,000.00	-	3,000,000.00
13	GENERATOR SET 125 KVA	(E13)	Unit	1.00	-	150,000.00	-	150,000.00
14	GENERATOR SET, 25 KVA	(E14)	Unit	1.00	-	150,000.00	-	150,000.00
15	MOTOR GRADER >100 HP	(E15)	Unit	1.00	-	1,500,000.00	-	1,500,000.00
16	WHEEL LOADER 1.0-1.6 M3	(E16)	Unit	2.00	-	1,500,000.00	-	3,000,000.00
17	TANDEM ROLLER 6-8 T.	(E17)	Unit	1.00	-	500,000.00	-	500,000.00
18	TIRE ROLLER 8-10 T.	(E18)	Unit	1.00	-	500,000.00	-	500,000.00
19	VIBRATORY ROLLER 5-8 T.	(E19)	Unit	1.00	-	750,000.00	-	750,000.00
20	STONE CRUSHER	(E20)	Unit	-	-	-	-	-
21	WATER PUMP 70-100 mm	(E21)	Unit	2.00	-	75,000.00	-	150,000.00
22	WATER TANKER 3000-4500 L.	(E22)	Unit	1.00	-	150,000.00	-	150,000.00
23	TAMPER	(E23)	Unit	4.00	-	50,000.00	-	200,000.00
24	JACK HAMMER	(E24)	Unit	1.00	-	500,000.00	-	500,000.00
25	PRESTRESSED JACK	(E25)	Unit	1.00	-	500,000.00	-	500,000.00
26	GROUTING PUMP WITH MIXER	(E26)	Unit	1.00	-	500,000.00	-	500,000.00
27	SAW MACHINE	(E27)	Unit	1.00	-	750,000.00	-	750,000.00
28	WELDING MACHINE	(E28)	Unit	1.00	-	150,000.00	-	150,000.00
29	CRAWLER CRANE 35 Ton	(E29)	Unit	-	-	-	-	-
30	ROUGH TERRAIN CRANE 90 TON	(E30)	Unit	-	-	-	-	-
31	FLAT BED TRUCK WITH CRANE 5 T	(E31)	Unit	1.00	-	250,000.00	-	250,000.00
32	TRAILLER TRUCK 20 T	(E32)	Unit	-	-	-	-	-
33	LINE MARKER TRUCK	(E33)	Unit	1.00	-	250,000.00	-	250,000.00
36	BORE PILE MACHINE DIA 2500	(E36)	Unit	1.00	-	75,000,000.00	-	75,000,000.00
37	DUMP TRUCK 6 T	(E37)	Unit	5.00	-	250,000.00	-	1,250,000.00
38	DUMP TRUCK 10 T	(E38)	Unit	10.00	-	250,000.00	-	2,500,000.00
39	TRUCK CRANE 16 TON	(E39)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
40	TRUCK CRANE 50 TON	(E40)	Unit	-	-	1,000,000.00	-	-
41	TRUCK CRANE 100 TON	(E41)	Unit	-	-	1,000,000.00	-	-
42	TRUCK CRANE 30 TON	(E42)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
43	BENTONITE MIXER	(E43)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
44	SLUSH TANK	(E44)	Unit	1.00	-	500,000.00	-	500,000.00
45	PORTABLE LIGHTING TOWERS	(E45)	Unit	1.00	-	250,000.00	-	250,000.00
46	CRAWLER CRANE 50 T	(E46)	Unit	1.00	-	15,000,000.00	-	15,000,000.00
47	CRAWLER CRANE 100 T	(E47)	Unit	2.00	-	25,000,000.00	-	50,000,000.00
48	CRAWLER CRANE 150 T	(E48)	Unit	-	-	25,000,000.00	-	-
49	CRAWLER CRANE 300 T	(E49)	Unit	-	-	25,000,000.00	-	-
50	JET GROUT MACHINE	(E50)	Unit	-	-	25,000,000.00	-	-
51	BORE PILE MACHINE DIA 2500(FOREIGN C	(E36)	Unit	1.00	-	405,000,000.00	-	405,000,000.00
TOTAL COST FOR MOB. EQUIP.							-	571,175,000.00

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : **Contractor Facilities (Offices )**  
 UNIT OF MEASUREMENT : LS

Table 1.2.3

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
1.	Office Building Maintenance	Month	12.00	-	450,000.00	-	5,400,000.00
2.	Desk, Cabinet, Chairs, etc.	Each	40.00	-	325,000.00	-	13,000,000.00
4.	Computer + Printer	Set	3.00	-	9,500,000.00	-	28,500,000.00
5.	Camera	Each	1.00	-	2,300,000.00	-	2,300,000.00
6.	Handycam	Each	1.00	-	4,500,000.00	-	4,500,000.00
7.	Facsimile	Each	12.00	-	150,000.00	-	1,800,000.00
8.	Telephone Installation	Each	1.00	-	750,000.00	-	750,000.00
9	Air Conditioned ( Rental )	Each	24.00	-	250,000.00	-	6,000,000.00
10	Photocopy Machine	Each	1.00	-	9,750,000.00	-	9,750,000.00
11	Radio comunication	Each	2.00	-	450,000.00	-	900,000.00
12	Conference table ( 10 persons )	Set	1.00	-	1,950,000.00	-	1,950,000.00
13	Filling cabinet	Each	5.00	-	450,000.00	-	2,250,000.00
14	Open Filling Shelves	Each	3.00	-	325,000.00	-	975,000.00
15	White board 90 x 180 cm2	Each	2.00	-	500,000.00	-	1,000,000.00
16	Kitchenset with Accessories	Set	1.00	-	2,500,000.00	-	2,500,000.00
17	Vehicle Two Wheel drive Station ( Rent	Month	24.00	-	5,500,000.00	-	132,000,000.00
18	Motorcycle 125 cc ( Rental )	Month	60.00	-	500,000.00	-	30,000,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	<b>77,100,000.00</b>

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : **Contractor Facilities (Operational )**  
 UNIT OF MEASUREMENT : LS

Table 1.2.4

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
1	Electricity	Month	12.00	-	1,750,000.00	-	21,000,000.00
2	Water	Month	12.00	-	750,000.00	-	9,000,000.00
3	Other Communication (Post, E-mail, etc)	Month	12.00	-	650,000.00	-	7,800,000.00
4	Telephone Charge (1 lines)	Month	12.00	-	2,500,000.00	-	30,000,000.00
5	Vehicle ( Operate and Maintain )	Month	24.00	-	2,500,000.00	-	60,000,000.00
6	Motorcycle ( Operate and Maintain )	Month	60.00	-	450,000.00	-	27,000,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	<b>154,800,000.00</b>

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Mobilization for Laboratory Facilities  
 UNIT OF MEASUREMENT : LS

Table 1.2.6

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b>LABORATORIES</b>						
<b>1</b>	<b>SOIL TESTING</b>						
	1.1. Compaction Test :						
-	Standard Proctor Mould	Unit	1.00	-	120,000.00	-	120,000.00
-	Standard Proctor Hammer	Unit	1.00	-	105,000.00	-	105,000.00
-	Modified Compaction Mould	Unit	1.00	-	165,000.00	-	165,000.00
-	Modified Compaction Hammer	Unit	1.00	-	135,000.00	-	135,000.00
-	Straight Edge	Unit	1.00	-	10,500.00	-	10,500.00
-	Sample Ejector	Unit	1.00	-	375,000.00	-	375,000.00
-	Mixing Spoon	Unit	1.00	-	15,000.00	-	15,000.00
-	Mixing Trowel	Unit	1.00	-	10,500.00	-	10,500.00
-	Spatula	Unit	1.00	-	10,500.00	-	10,500.00
-	Mixing Pan	Unit	1.00	-	105,000.00	-	105,000.00
-	Aluminium Pan 25 cm Dia.	Unit	1.00	-	22,500.00	-	22,500.00
-	Wash Bottle	Unit	1.00	-	7,500.00	-	7,500.00
-	Moisture Cans	Unit	20.00	-	5,700.00	-	114,000.00
	1.2. <b>Laboratory CBR :</b>						
-	Mechanical Loading Press 6000 Lbs Capacity	Unit	1.00	-	180,000.00	-	180,000.00
	Proving Ring						-
-	CBR Moulds	Unit	2.00	-	180,000.00	-	360,000.00
-	Spacer Dish	Unit	1.00	-	90,000.00	-	90,000.00
-	Swell Plate Surcharge Plate	Unit	2.00	-	52,500.00	-	105,000.00
-	Tripod Attachment	Unit	2.00	-	27,000.00	-	54,000.00
-	Swell Dial Indicator	Unit	2.00	-	150,000.00	-	300,000.00
-	Surcharge Weight	Unit	2.00	-	45,000.00	-	90,000.00
-	Slotted Surcharge weight	Unit	2.00	-	60,000.00	-	120,000.00
-	Steel Cutting Edge	Unit	1.00	-	28,500.00	-	28,500.00
	1.3. <b>Specific Gravity :</b>						
-	Picnometer Bottles of 100 cc Capacity	Unit	1.00	-	37,500.00	-	37,500.00
-	Porcelain Mortar and Pestle	Unit	1.00	-	22,500.00	-	22,500.00
-	Hot Plate, 1000 watts, 220 Volts/50 cycle	Unit	1.00	-	525,000.00	-	525,000.00
-							
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	3,108,000.00

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Mobilization for Laboratory Facilities  
 UNIT OF MEASUREMENT : LS

Table 1.2.7

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>1.4.</b>	<b>Atterberg Limits :</b>						
-	Standard Liquid Limit Device	Unit	1.00	-	450,000.00	-	450,000.00
-	ASTM Grooving Tool	Unit	1.00	-	45,000.00	-	45,000.00
-	Evaporating Dish	Unit	2.00	-	15,000.00	-	30,000.00
-	Flexible Spatula	Unit	2.00	-	15,000.00	-	30,000.00
-	100 cm Dgraduate Cylinder	Unit	2.00	-	22,500.00	-	45,000.00
-	Cassagrande Grooving Tool	Unit	1.00	-	15,000.00	-	15,000.00
-	Plastic Limit Glass Plate	Unit	1.00	-	22,500.00	-	22,500.00
<b>1.5.</b>	<b>Grain Size Analysis :</b>						
-	Hydrometer Jars	Unit	2.00	-	105,000.00	-	210,000.00
-	Mechanical Stirrer, Electric Powered 220 V/50 Cycle	Unit	1.00	-	45,000.00	-	45,000.00
-	Dispersion Cups with Baffles	Unit	1.00	-	75,000.00	-	75,000.00
-	Hydrometer, Scale 0 - 60 gr	set	1.00	-	45,000.00	-	45,000.00
-	Set Brass Sieves, 8 Inches Dia. 75 mm, 50 , 38, 25,	set	1.00	-	665,221.40	-	665,221.40
-	9.5, No. 4, 10, 30, 60, 100 Including cover and Pan						
-	No. 200 Brass Sieves	Unit	2.00	-	75,000.00	-	150,000.00
-	Wet Washing Sieves	Unit	1.00	-	75,000.00	-	75,000.00
-	50 ml Graduated Cylinder	Unit	1.00	-	22,500.00	-	22,500.00
-	Sieve Brushes for Fine Sieves	Unit	2.00	-	7,500.00	-	15,000.00
-	Sieve Brushes for Coarse Sieves	Unit	2.00	-	10,500.00	-	21,000.00
-	Sieve Shaker	Set	1.00	-	800,000.00	-	800,000.00
<b>1.6.</b>	<b><u>Field Density Test, Sand Cone Method :</u></b>						
-	Sand Cone	Set	1.00	-	90,000.00	-	90,000.00
-	Replacement Jug	Unit	1.00	-	27,000.00	-	27,000.00
-	Field Density Plate	Unit	1.00	-	67,500.00	-	67,500.00
-	Spoon	Unit	1.00	-	10,500.00	-	10,500.00
-	Steel Chisel, 1 inch	Unit	1.00	-	7,500.00	-	7,500.00
-	Rubber Mallet	Unit	1.00	-	7,500.00	-	7,500.00
-	Sand Scoop	Zak	1.00	-	18,000.00	-	18,000.00
-	Gallon Field Cans	Unit	6.00	-	6,600.00	-	39,600.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	3,028,821.40



PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Mobilization for Laboratory Facilities  
 UNIT OF MEASUREMENT : LS

Table 1.2.8

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
	<b>1.7. Moisture Content :</b>						
-	Speedy Moisture Tester 26 Grams Capacity	Unit	1.00	-	2,000,000.00	-	2,000,000.00
-	Cans Speedy Reagent	Unit	6.00	-	45,000.00	-	270,000.00
2	<b>BITUMINOUS TESTING</b>						
	2.1. Marshall Asphalt Test :						
-	Stability Compression machine Complete with 6000 Proving Ring, 220 Volts/50 Cycles	Set	1.00	-	1,800,000.00	-	1,800,000.00
-	Stability Compaction Moulds	Set	4.00	-	105,000.00	-	420,000.00
-	Stability Compaction Hammer	Set	1.00	-	360,000.00	-	360,000.00
-	Mould Holder	Set	1.00	-	45,000.00	-	45,000.00
-	Stability Mould	Set	1.00	-	300,000.00	-	300,000.00
-	Dial Flow Indicator	Set	1.00	-	400,000.00	-	400,000.00
-	Pedestal	Unit	1.00	-	240,000.00	-	240,000.00
-	Water Bath 220 V/50 Cycle	Set	1.00	-	900,000.00	-	900,000.00
-	Sample Extractor	Set	1.00	-	45,000.00	-	45,000.00
-	Stainless Steel Mixing Bowls	Unit	2.00	-	22,500.00	-	45,000.00
2.2.	Extraction Test Centrifuge Method :						
-	Centrifuge Extractor 1500 grams Capacity 220 V / 5	Set	1.00	-	1,500,000.00	-	1,500,000.00
-	Boxes Filter Paper Rings (100 box)	Box	10.00	-	200,000.00	-	2,000,000.00
-	Extractor Bowl	Unit	1.00	-	-	-	-
-	Bowl Cover	Unit	1.00	-	-	-	-
-	Bowl Nut	Unit	1.00	-	-	-	-
	} included						
2.3.	Extraction Test, Reflux Method :						
-	Reflux Extractor Set 1000 grams Capacity	Set	1.00	-	900,000.00	-	900,000.00
-	Boxes Filter Paper (50/Box)	Box	1.00	-	300,000.00	-	300,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	11,525,000.00

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Mobilization for Laboratory Facilities  
 UNIT OF MEASUREMENT : LS

Table 1.2.9

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
2.4.	<b>Specific Gravity of Coarse Aggregates :</b>						
-	Density Basket	Unit	1.00	-	75,000.00	-	75,000.00
-	Sample Splitter 1"	Set	1.00	-	270,000.00	-	270,000.00
-	Sample Splitter 1/2"	Set	1.00	-	270,000.00	-	270,000.00
2.5.	<b>Specific Gravity of Fine Aggregates :</b>						
-	Cone	Unit	1.00	-	75,000.00	-	75,000.00
-	Tamper	Unit	1.00	-	22,500.00	-	22,500.00
-	Picnoimeter	Unit	1.00	-	45,000.00	-	45,000.00
-	Thermometer (Glass), 0 - 150 deg. C	Unit	3.00	-	15,000.00	-	45,000.00
-	Desiccator	Unit	1.00	-	400,000.00	-	400,000.00
2.6.	<b>Mix Air Voids Content, (Accurate Method) :</b>						
-	Set of Cork Borers	Set	1.00	-	225,000.00	-	225,000.00
-	Conical Flash with Stoppers (Rubber)	Unit	2.00	-	75,000.00	-	150,000.00
-	Vaccum Pump (+ Special Oil)	Unit	1.00	-	1,200,000.00	-	1,200,000.00
-	Rubbing Tubing	Unit	1.00	-	45,000.00	-	45,000.00
-	Warm air Fan	Unit	1.00	-	60,000.00	-	60,000.00
2.7.	<b>Core Drilling :</b>						
-	Core Drill Machine, 7 HP, 4 Cycle	Set	1.00	-	3,000,000.00	-	3,000,000.00
-	9" Extension Shaft	Unit	1.00	-	-	-	-
-	18" Strap Wrench	Unit	1.00	-	-	-	-
-	Diamond Bit 4" Diameter (Resettable)	Unit	2.00	-	1,200,000.00	-	2,400,000.00
-	Expanding Adaptor ( included )	Unit	1.00	-	-	-	-
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	<b>8,282,500.00</b>

PROJECT  
 PACKAGE CONTRACT No.  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : **Mobilization for Laboratory Facilities**  
 UNIT OF MEASUREMENT : LS

Table 1.2.10

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>2.8.</b>	<b>Metal Thermometer</b>						
-	0 - 100 deg. C Metal Thermometer	Unit	1.00	-	75,000.00	-	75,000.00
-	0 - 250 deg. C Metal Thermometer	Unit	1.00	-	105,000.00	-	105,000.00
2.9.	Accessories and Tools :						-
-	Heavy Duty Banlace Complete with Set of weight Set and Counterweight	Set	1.00	-	1,900,000.00	-	1,900,000.00
-	Triple Beam Scale Complete with Set of weight	Set	1.00	-	700,000.00	-	700,000.00
-	Generator, 10 KVA	Set	1.00	-	7,000,000.00	-	7,000,000.00
-	Double Wall Oven, 1600 W 240 Volts/50 Cycle	Set	2.00	-	3,400,000.00	-	6,800,000.00
-	Plastic Funnels	Unit	3.00	-	4,500.00	-	13,500.00
-	Sodium Hexametaphosphate	Lb	1.00	-	22,500.00	-	22,500.00
-	Pairs Asbestos Gloves	Unit	2.00	-	45,000.00	-	90,000.00
-	laboratory Tongs	Unit	2.00	-	15,000.00	-	30,000.00
3	<b>CONCRETE TESTING</b>						
-	Slump Cone	Unit	1.00	-	300,000.00	-	300,000.00
-	Cube Moulds	Unit	12.00	-	105,000.00	-	1,260,000.00
-	Cube Crushing Machine (Provisional)	Unit	1.00	-	9,000,000.00	-	9,000,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	<b>27,296,000.00</b>

PROJECT  
PACKAGE CONTRACT No.  
PACKAGE NAME : MERAK FO  
PROV. / KAB /CITY  
NO. PAY ITEM  
DESCRIPTION OF WORK : DEMOBILIZATION OF HEAVY EQUIPMENT  
UNIT OF MEASUREMENT : LS

Table 1.2.11

No.	KIND OF EQUIPMENT	EQUIP. CODE	UNIT	QUANTITY	UNIT PRICE		TOTAL PRICE	
					FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>B. EQUIPMENT</b>								
1	ASPHALT MIXING PLANT	(E01)	Unit	-	-	-	-	-
2	ASPHALT FINISHER	(E02)	Unit	1.00	-	1,500,000.00	-	1,500,000.00
3	ASPHALT SPRAYER	(E03)	Unit	1.00	-	150,000.00	-	150,000.00
4	BULLDOZER 100-150 HP	(E04)	Unit	1.00	-	1,200,000.00	-	1,200,000.00
5	COMPRESSOR 4000-6500 LHM	(E05)	Unit	1.00	-	150,000.00	-	150,000.00
6	CONCRETE MIXER 0.3-0.6 M3	(E06)	Unit	2.00	-	150,000.00	-	300,000.00
7	CONCRETE VIBRATOR	(E07)	Unit	4.00	-	75,000.00	-	300,000.00
8	CONCRETE PUMP	(E08)	Unit	1.00	-	75,000.00	-	75,000.00
9	CONCRETE CUTTER	(E09)	Unit	1.00	-	50,000.00	-	50,000.00
10	BATCHING PLANT	(E10)	Unit	-	-	-	-	-
11	MIXER TRUCK (AT)	(E11)	Unit	8.00	-	250,000.00	-	2,000,000.00
12	EXCAVATOR 80-140 HP	(E12)	Unit	2.00	-	1,500,000.00	-	3,000,000.00
13	GENERATOR SET 125 KVA	(E13)	Unit	1.00	-	150,000.00	-	150,000.00
14	GENERATOR SET, 25 KVA	(E14)	Unit	1.00	-	150,000.00	-	150,000.00
15	MOTOR GRADER >100 HP	(E15)	Unit	1.00	-	1,500,000.00	-	1,500,000.00
16	WHEEL LOADER 1.0-1.6 M3	(E16)	Unit	2.00	-	1,500,000.00	-	3,000,000.00
17	TANDEM ROLLER 6-8 T.	(E17)	Unit	1.00	-	500,000.00	-	500,000.00
18	TIRE ROLLER 8-10 T.	(E18)	Unit	1.00	-	500,000.00	-	500,000.00
19	VIBRATORY ROLLER 5-8 T.	(E19)	Unit	1.00	-	750,000.00	-	750,000.00
20	STONE CRUSHER	(E20)	Unit	-	-	-	-	-
21	WATER PUMP 70-100 mm	(E21)	Unit	2.00	-	75,000.00	-	150,000.00
22	WATER TANKER 3000-4500 L.	(E22)	Unit	1.00	-	150,000.00	-	150,000.00
23	TAMPER	(E23)	Unit	4.00	-	50,000.00	-	200,000.00
24	JACK HAMMER	(E24)	Unit	1.00	-	500,000.00	-	500,000.00
25	PRESTRESSED JACK	(E25)	Unit	1.00	-	500,000.00	-	500,000.00
26	GROUTING PUMP WITH MIXER	(E26)	Unit	1.00	-	500,000.00	-	500,000.00
27	SAW MACHINE	(E27)	Unit	1.00	-	750,000.00	-	750,000.00
28	WELDING MACHINE	(E28)	Unit	1.00	-	150,000.00	-	150,000.00
29	CRAWLER CRANE 35 Ton	(E29)	Unit	-	-	-	-	-
30	ROUGH TERRAIN CRANE 90 TON	(E30)	Unit	-	-	-	-	-
31	FLAT BED TRUCK WITH CRANE 5 T	(E31)	Unit	1.00	-	250,000.00	-	250,000.00
32	TRAILER TRUCK 20 T	(E32)	Unit	-	-	-	-	-
33	LINE MARKER TRUCK	(E33)	Unit	1.00	-	250,000.00	-	250,000.00
36	BORE PILE MACHINE DIA 2500	(E36)	Unit	1.00	-	75,000,000.00	-	75,000,000.00
37	DUMP TRUCK 6 T	(E37)	Unit	5.00	-	250,000.00	-	1,250,000.00
38	DUMP TRUCK 10 T	(E38)	Unit	10.00	-	250,000.00	-	2,500,000.00
39	TRUCK CRANE 16 TON	(E39)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
40	TRUCK CRANE 50 TON	(E40)	Unit	-	-	1,000,000.00	-	-
41	TRUCK CRANE 100 TON	(E41)	Unit	-	-	1,000,000.00	-	-
42	TRUCK CRANE 30 TON	(E42)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
43	BENTONITE MIXER	(E43)	Unit	1.00	-	1,000,000.00	-	1,000,000.00
44	SLUSH TANK	(E44)	Unit	1.00	-	500,000.00	-	500,000.00
45	PORTABLE LIGHTING TOWERS	(E45)	Unit	1.00	-	250,000.00	-	250,000.00
46	CRAWLER CRANE 50 T	(E46)	Unit	1.00	-	15,000,000.00	-	15,000,000.00
47	CRAWLER CRANE 100 T	(E47)	Unit	2.00	-	25,000,000.00	-	50,000,000.00
48	CRAWLER CRANE 150 T	(E48)	Unit	-	-	25,000,000.00	-	-
49	CRAWLER CRANE 300 T	(E49)	Unit	-	-	25,000,000.00	-	-
50	JET GROUT MACHINE	(E50)	Unit	-	-	25,000,000.00	-	-
51	BORE PILE MACHINE DIA 2500(FOREIGN C	(E36)	Unit	1.00	-	405,000,000.00	-	405,000,000.00
TOTAL COST FOR MOB. EQUIP.							-	571,175,000.00

PROJECT  
 PACKAGE CONTRACT No.  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : **OTHER MOBILITATION**  
 UNIT OF MEASUREMENT : LS

Table 1.2.12

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
1	Maintenance of Detour	LS	1.00	-	161,340,771.08	-	161,340,771.08
2	As Build Drawing	LS	1.00	-	4,500,000.00	-	4,500,000.00
3	Geo - Technical Survey	LS	1.00	-	81,540,000.00	-	81,540,000.00
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	247,380,771.08

**UNIT COST OF TEMPORARY ROAD PER SQUARE METER**

Package No. : I  
 Package Name : Merak Fly Over  
 Province : Banten

PRICE OF TEMPORARY ROAD PER SQUARE METER

AREA = 1,218.25 Sq.M

Table 1.2.12.1

No.	No. PAY ITEMS	Description	UNIT	ESTIMATE QUANTITY	UNIT COST ( EXCLUDED VAT )		TOTAL COST ( EXCLUDED VAT )		Remarks
					FOREIGN	LOCAL	FOREIGN	LOCAL	
					RUPIAH	RUPIAH	RUPIAH	RUPIAH	
1	5.1.1	Aggregate Sub Base Class A	Cu. M	-	-	227,160.89	-	-	
2	5.1.2	Aggregate Sub Base Class B	Cu. M	243.65	-	204,681.90	-	49,870,826.81	
3	6.1.1	Prime Coat	Litre	1,096.43	-	8,211.13	-	9,002,902.99	
4	6.1.2	Tack Coat	Litre	-	-	9,165.98	-	-	
5	6.3.5	Asphalt Concrete Wearing Course (AC-WC)	Ton	-	-	802,610.87	-	-	
6	6.3.6	Asphalt Concrete Binder Course (AC-BC)	Ton	-	-	773,486.60	-	-	
7	6.3.7	Asphalt Concrete Base (AC-Base)	Ton	140.10	-	700,754.31	-	98,174,964.06	
8	-	Preparation Works	Ls	1.00	-	4,292,077.22	-	4,292,077.22	
		Direct Cost					-	161,340,771.08	
		VAT 0 %					-	-	
		Construction Cost					-	161,340,771.08	
		<b>PRICE OF TEMPORARY ROAD PER SQUARE METER</b>					-	<b>132,436.29</b>	

PROJECT  
 PACKAGE CONTRACT No.  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM :  
 DESCRIPTION OF WORK : Mobilization for Geotechnical Survey  
 UNIT OF MEASUREMENT : LS

Table 1.2.13

NO.	DESCRIPTION	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
1	Mobilization/Demobilization of Equipment	Rig	1.00	-	3,750,000.00	-	3,750,000.00
2	Setting Rig	Sites	5.00	-	720,000.00	-	3,600,000.00
3	Drilling	Ln.M	200.00	-	270,000.00	-	54,000,000.00
4	Sampling :						
	- Disturbed	Each	20.00	-	45,000.00	-	900,000.00
	- Undisturbed	Each	5.00	-	270,000.00	-	1,350,000.00
5	Standard Penetration Test	Each	65.00	-	36,000.00	-	2,340,000.00
6	Laboratory Test :						
	- Water Content	Sample	25.00	-	18,000.00	-	450,000.00
	- Specific Gravity	Sample	25.00	-	27,000.00	-	675,000.00
	- Sieve Analysis	Sample	25.00	-	36,000.00	-	900,000.00
	- Unit Weight	Sample	25.00	-	18,000.00	-	450,000.00
	- Consistency	Sample	25.00	-	54,000.00	-	1,350,000.00
7	Consolidation Test	Sample	5.00	-	540,000.00	-	2,700,000.00
8	Direct Shear Test	Sample	5.00	-	180,000.00	-	900,000.00
9	Unconfined Compression Test	Sample	5.00	-	135,000.00	-	675,000.00
10	Geo - Technical Survey Report	Ls	1.00	-	7,500,000.00	-	7,500,000.00
D.	TOTAL PRICE					-	81,540,000.00

PROJECT :  
 PACKAGE CONTRACT No. :  
 PACKAGE NAME : MERAK FO  
 PROV. / KAB /CITY :  
 NO. PAY ITEM : 1.8  
 DESCRIPTION OF WORK : Maintenance of Traffic Flow  
 UNIT OF MEASUREMENT : LS

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	5,040.00		6,394.59	-	32,228,733.60
2.	Skilled Labour (L03)	Hour	756.00		7,442.60	-	5,626,605.60
3.	Foreman (L04)	Hour	2,520.00		8,508.36	-	21,441,067.20
4.	Driver (L14)	Hour	2,520.00		6,376.83	-	16,069,611.60
5.	Flagman (L02)	Hour	25,920.00		6,394.59	-	165,747,772.80
<b>SUB TOTAL FOR LABOUR</b>						-	241,113,790.80
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Site Fence (Zinc plate with timber pole)	LnM	750.00		125,000.00	-	93,750,000.00
2.	Traffic Cone	each	50.00		245,000.00	-	12,250,000.00
3.	Traffic Sign	each	41.00		100,000.00	-	4,100,000.00
4.	Lamp inc. Fitting	each	20.00		10,000.00	-	200,000.00
5.	Cable 2 x 2.5 mm	LM	2,000.00		4,800.00	-	9,600,000.00
6.	Flushing Light	each	2.00		850,000.00	-	1,700,000.00
7.	Big Banner	each	2.00		750,000.00	-	1,500,000.00
8.	Christmast Lamp with Controller Outdoor 2.5V3	Set	10.00		108,700.00	-	1,087,000.00
9.	Radio Communication Two Direction	each	2.00		450,000.00	-	900,000.00
10.	Safety Net	Sq. M	1,200.00		12,500.00	-	15,000,000.00
11.	Reflective Jacket	each	15.00		150,000.00	-	2,250,000.00
12.	Hand light	each	8.00		85,000.00	-	680,000.00
13.	Moveable Barrier	each	120.00		95,000.00	-	11,400,000.00
14.	Information blocchure	sheet	1,000.00		500.00	-	500,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	154,917,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 t (E31)	hour	458.00	-	288,808.64	-	132,274,357.12
2.	Rental car Pick-up 1500 CC - 1 unit	month	12.00		5,250,000.00	-	63,000,000.00
3.	Tools	Ls	1.00		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	195,279,357.12
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	591,310,147.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	59,131,014.79
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	650,441,162.71



**DIVISION 2.  
DRAINAGE**

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-21 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUNTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.1(1)		
DESCRIPTION OF WORK	:	Common Excavation for drainage ditches & waterway		
UNIT OF MEASUREMENT	:	Cu. M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.1190		6,394.59	-	760.92	
2.	Foreman (L04)	hour	0.0297		8,508.36	-	253.11	
<b>SUB TOTAL FOR LABOUR</b>						-	1,014.03	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00	
2.	Dump Truck 6 T (E37)	hour	0.0623	-	198,128.75	-	12,340.88	
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	23,477.88	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	24,491.91
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D			2,449.19	
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	26,941.10

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

LI-22 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.2.(1)		
DESCRIPTION OF WORK	:	Mortared Stonework for drainage channel		
UNIT OF MEASUREMENT	:	Cu. M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.4980		6,394.59	-	28,762.81
2.	Masonry (L03)	hour	1.1245		7,442.60	-	8,369.19
3.	Foreman (L04)	hour	0.5622		8,508.36	-	4,783.82
<b>SUB TOTAL FOR LABOUR</b>						-	41,915.82
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Boulder stone split (M07)	M3	1.1000	-	169,000.00	-	185,900.00
2.	Cement (PC) (M12)	Kg	121.0000	-	800.00	-	96,800.00
3.	Sand (M05)	M3	0.5131	-	118,300.00	-	60,694.28
<b>SUB TOTAL FOR MATERIALS</b>						-	343,394.28
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Conc. Mixer (E06)	hour	0.5622	-	59,718.77	-	33,576.82
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	34,576.82
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	419,886.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	41,988.69
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	461,875.61

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-231 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (1)		
DESCRIPTION OF WORK	:	RCP Culvert Ø 400 mm Type A		
UNIT OF MEASUREMENT	:	Ln.M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	38,756.56
<b>B. <u>MATERIALS</u></b>							
1	RCP Culvert Ø 400 mm (M234)	Ln.M	1.0000	152,440.00	-	152,440.00	-
2	Concrete K-300 ( Class-C) (EI715)	Cu.M	0.2992	-	724,252.78	-	216,667.46
3	Concrete K-125 ( Class-E) (EI718)	Cu.M	0.1410	-	473,930.20	-	66,824.16
4	Boulder / River stone (M07)	Cu.M	0.2115	-	169,000.00	-	35,743.50
<b>SUB TOTAL FOR MATERIALS</b>						152,440.00	319,235.12
<b>C. <u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.0586	-	198,128.75	-	11,603.93
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	29,976.85
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					152,440.00	387,968.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	54,040.85
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					152,440.00	442,009.38

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-232 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE	:			WORKING	:
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:
NO OF PAYMENT ITEM	:	2.3 (2)			
DESCRIPTION OF WORK	:	RCP Culvert Ø 400 mm Type B			
UNIT OF MEASUREMENT	:	Ln.M			

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	9.8000		6,394.59	-	62,666.98
2.	Skill Labour (L03)	hour	2.8000		7,442.60	-	20,839.28
3.	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL FOR LABOUR</b>						-	95,417.96
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 400 mm (M234)	Ln.M	1.0000	152,440.00	-	152,440.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	0.8967	-	724,252.78	-	649,463.33
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.1410	-	473,930.20	-	66,824.16
4	Boulder / River stone (M07)	Cu.M	0.2115	-	169,000.00	-	35,743.50
5.	Reinf. Steel - Grade 40 (E1734)	Kg	51.9516	-	9,444.25	-	490,644.03
<b>SUB TOTAL FOR MATERIALS</b>						152,440.00	1,242,675.02
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.0668	-	198,128.75	-	13,243.77
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	31,616.69
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					152,440.00	1,369,709.67
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	152,214.97
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					152,440.00	1,521,924.64

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-233 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (3)	WORKING
DESCRIPTION OF WORK	:	RCP Culvert Ø 600 mm Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	38,756.56
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 600 mm (M60)	Ln.M	1.0000	269,600.00	-	269,600.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	0.4487	-	724,252.78	-	325,001.19
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.1640	-	473,930.20	-	77,724.55
4	Boulder / River stone (M07)	Cu.M	0.2460	-	169,000.00	-	41,574.00
<b>SUB TOTAL FOR MATERIALS</b>						269,600.00	444,299.74
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.0703	-	198,128.75	-	13,924.71
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	32,297.63
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					269,600.00	515,353.93
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	78,495.39
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					269,600.00	593,849.32

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-234 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (4)	WORKING
DESCRIPTION OF WORK	:	RCP Culvert Ø 600 mm Type B	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	9.8000		6,394.59	-	62,666.98
2.	Skill Labour (L03)	hour	2.8000		7,442.60	-	20,839.28
3.	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL FOR LABOUR</b>						-	95,417.96
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 600 mm (M60)	Ln.M	1.0000	269,600.00	-	269,600.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	1.2113	-	724,252.78	-	877,318.43
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.1640	-	473,930.20	-	77,724.55
4	Boulder / River stone (M07)	Cu.M	0.2460	-	169,000.00	-	41,574.00
5.	Reinf. Steel - Grade 40 (E1734)	Kg	62.5004	-	9,444.25	-	590,269.18
<b>SUB TOTAL FOR MATERIALS</b>						269,600.00	1,586,886.16
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.0802	-	198,128.75	-	15,892.52
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	34,265.44
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					269,600.00	1,716,569.56
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	198,616.96
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					269,600.00	1,915,186.52

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-232 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (5)	WORKING
DESCRIPTION OF WORK	:	RCP Culvert Ø 800 mm Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.3750		6,394.59	-	27,976.33
2.	Skill Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	0.8750		8,508.36	-	7,444.82
<b>SUB TOTAL FOR LABOUR</b>						-	48,445.70
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 800 mm (M59)	Ln.M	1.0000	428,960.00	-	428,960.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	0.8087	-	724,252.78	-	585,694.53
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.1888	-	473,930.20	-	89,478.02
4	Boulder / River stone (M07)	Cu.M	0.2832	-	169,000.00	-	47,860.80
<b>SUB TOTAL FOR MATERIALS</b>						428,960.00	723,033.35
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3	Excavator (E12)	hour	0.0669	-	340,755.29	-	22,808.25
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	51,931.24
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					428,960.00	823,410.29
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	125,237.03
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					428,960.00	948,647.32



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-236 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:				ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:				WORKING
PACKAGE NAME	:				TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:				% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (6)			
DESCRIPTION OF WORK	:	RCP Culvert Ø 800 mm Type B			
UNIT OF MEASUREMENT	:	Ln.M			

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	12.2500		6,394.59	-	78,333.73
2.	Skill Labour (L03)	hour	3.5000		7,442.60	-	26,049.10
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	119,272.46
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 800 mm (M59)	Ln.M	1.0000	428,960.00	-	428,960.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	1.5760	-	724,252.78	-	1,141,403.34
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.1888	-	473,930.20	-	89,478.02
4	Boulder / River stone (M07)	Cu.M	0.2832	-	169,000.00	-	47,860.80
5.	Reinf. Steel - Grade 40 (E1734)	Kg	73.8747	-	9,444.25	-	697,691.09
<b>SUB TOTAL FOR MATERIALS</b>						428,960.00	1,976,433.25
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1203	-	198,128.75	-	23,838.78
3.	Excavator (E12)	hour	0.0669	-	340,755.29	-	22,808.25
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	54,882.95
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					428,960.00	2,150,588.66
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	257,954.87
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					428,960.00	2,408,543.53

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-233 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (7)		
DESCRIPTION OF WORK	:	RCP Culvert Ø 1000 mm Type A		
UNIT OF MEASUREMENT	:	Ln.M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.3750		6,394.59	-	27,976.33
2.	Skill Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	0.8750		8,508.36	-	7,444.82
<b>SUB TOTAL FOR LABOUR</b>						-	48,445.70
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	RCP Culvert Ø 1000 mm (M58)	Ln.M	1.0000	697,760.00	-	697,760.00	-
2	Concrete K-300 ( Class-C) (E1715)	Cu.M	0.9379	-	724,252.78	-	679,266.54
3	Concrete K-125 ( Class-E) (E1718)	Cu.M	0.2116	-	473,930.20	-	100,283.63
4	Boulder / River stone (M07)	Cu.M	0.3174	-	78,000.00	-	24,757.20
<b>SUB TOTAL FOR MATERIALS</b>						697,760.00	804,307.37
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.3008	-	198,128.75	-	59,596.95
3.	Excavator (E12)	hour	0.0669	-	340,755.29	-	22,808.25
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	90,641.12
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					697,760.00	943,394.19
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	164,115.42
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					697,760.00	1,107,509.61

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-238 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (8)	WORKING
DESCRIPTION OF WORK	:	RCP Culvert Ø 1000 mm Type B	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	12.2500		6,394.59	-	78,333.73
2.	Skill Labour (L03)	hour	3.5000		7,442.60	-	26,049.10
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	119,272.46
<b>B. <u>MATERIALS</u></b>							
1	RCP Culvert Ø 1000 mm (M58)	Ln.M	1.0000	697,760.00	-	697,760.00	-
2	Concrete K-300 ( Class-C) (EI715)	Cu.M	1.9345	-	724,252.78	-	1,401,034.31
3	Concrete K-125 ( Class-E) (EI718)	Cu.M	0.2116	-	473,930.20	-	100,283.63
4	Boulder / River stone (M07)	Cu.M	0.3174	-	169,000.00	-	53,640.60
5.	Reinf. Steel - Grade 40 (EI734)	Kg	84.3317	-	9,444.25	-	796,449.93
<b>SUB TOTAL FOR MATERIALS</b>						697,760.00	2,351,408.47
<b>C. <u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.3008	-	198,128.75	-	59,596.95
3.	Excavator (E12)	hour	0.0669	-	340,755.29	-	22,808.25
4	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	90,641.12
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					697,760.00	2,561,322.05
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	325,908.21
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					697,760.00	2,887,230.26

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239a Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (9) a	WORKING
DESCRIPTION OF WORK	:	Manhole Type I ( 2 x U-Ditch 600 mm )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66	
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55	
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63	
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (EI715)	CuM	1.2078	-	724,252.78	-	874,730.92	
2	Concrete Class E (EI718)	CuM	0.2638	-	473,930.20	-	125,003.83	
3	Boulder / River Stone (M07)	CuM	0.3956	-	169,000.00	-	66,863.16	
4	Reinf. Steel - Grade 40 (EI734)	Kg	105.2162	-	9,444.25	-	993,687.67	
<b>SUB TOTAL FOR MATERIALS</b>						-	2,060,285.58	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2259	-	288,808.64	-	65,242.92	
3.	Excavator (E12)	hour	0.0892	-	340,755.29	-	30,411.00	
4.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	107,889.84	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	2,252,042.26
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	225,204.23
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	2,477,246.49

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239b Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:	ESTIMATE QUANTITY OF	:
No. OF CONTRACT PACKAGE	:	WORKING	:
PACKAGE NAME	:	TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:	% TO PROJECT COST	:
NO OF PAYMENT ITEM	: 2.3 (9) b		
DESCRIPTION OF WORK	: Manhole Type II ( 2 x U-Ditch 600 mm + RCP dia 400 n		
UNIT OF MEASUREMENT	: Each		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84
<b>B. <u>MATERIALS</u></b>							
1	Concrete Class C (EI715)	CuM	1.1771	-	724,252.78	-	852,529.21
2	Concrete Class E (EI718)	CuM	0.2638	-	473,930.20	-	125,003.83
3	Boulder / River Stone (M07)	CuM	0.3956	-	169,000.00	-	66,863.16
4	Reinf. Steel - Grade 40 (EI734)	Kg	102.7638	-	9,444.25	-	970,526.86
<b>SUB TOTAL FOR MATERIALS</b>						-	2,014,923.06
<b>C. <u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2259	-	288,808.64	-	65,242.92
3.	Excavator (E12)	hour	0.0892	-	340,755.29	-	30,411.00
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	107,889.84
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	2,206,679.74
<b>E. OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	220,667.97
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	2,427,347.71

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239c Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (9) c	WORKING
DESCRIPTION OF WORK	:	Manhole Type III ( 2 x RCP dia 800 mm )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66	
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55	
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63	
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (E1715)	CuM	2.3323	-	724,252.78	-	1,689,154.65	
2	Concrete Class E (E1718)	CuM	0.3278	-	473,930.20	-	155,361.90	
3	Boulder / River Stone (M07)	CuM	0.4917	-	169,000.00	-	83,101.36	
4	Reinf. Steel - Grade 40 (E1734)	Kg	206.2291	-	9,444.25	-	1,947,679.34	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,875,297.25	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.5522	-	288,808.64	-	159,482.68	
3.	Excavator (E12)	hour	0.1190	-	340,755.29	-	40,548.00	
4.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	212,266.60	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	4,171,430.69
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	417,143.07
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	4,588,573.76

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239d Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTIY OF
NO OF PAYMENT ITEM	:	2.3 (9) d	WORKING
DESCRIPTION OF WORK	:	Manhole Type IV ( 2 x RCP dia 800 mm + RCP dia 8	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Concrete Class C (EI715)	CuM	2.2172	-	724,252.78	-	1,605,832.60
2	Concrete Class E (EI718)	CuM	0.3278	-	473,930.20	-	155,361.90
3	Boulder / River Stone (M07)	CuM	0.4917	-	169,000.00	-	83,101.36
4	Reinf. Steel - Grade 40 (EI734)	Kg	190.7096	-	9,444.25	-	1,801,109.03
<b>SUB TOTAL FOR MATERIALS</b>						-	3,645,404.89
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.5522	-	288,808.64	-	159,482.68
3.	Excavator (E12)	hour	0.1190	-	340,755.29	-	40,548.00
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	212,266.60
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	3,941,538.33
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	394,153.83
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	4,335,692.16

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239e Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (9) e	WORKING
DESCRIPTION OF WORK	:	Manhole Type V ( 2 x U-Ditch 600 mm + RCP dia 800 r	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66	
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55	
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63	
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (EI715)	CuM	2.0278	-	724,252.78	-	1,468,611.87	
2	Concrete Class E (EI718)	CuM	0.3140	-	473,930.20	-	148,814.08	
3	Boulder / River Stone (M07)	CuM	0.4710	-	169,000.00	-	79,599.00	
4	Reinf. Steel - Grade 40 (EI734)	Kg	175.5524	-	9,444.25	-	1,657,960.47	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,354,985.42	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.5522	-	288,808.64	-	159,482.68	
3.	Excavator (E12)	hour	0.1190	-	340,755.29	-	40,548.00	
4.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	212,266.60	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,651,118.86
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	365,111.89
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	4,016,230.75



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239e Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (9) e	WORKING
DESCRIPTION OF WORK	:	Manhole Type V ( 2 x U-Ditch 600 mm + RCP dia 800 r	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66	
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55	
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63	
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (EI715)	CuM	2.0278	-	724,252.78	-	1,468,611.87	
2	Concrete Class E (EI718)	CuM	0.3140	-	473,930.20	-	148,814.08	
3	Boulder / River Stone (M07)	CuM	0.4710	-	169,000.00	-	79,599.00	
4	Reinf. Steel - Grade 40 (EI734)	Kg	175.5524	-	9,444.25	-	1,657,960.47	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,354,985.42	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.5522	-	288,808.64	-	159,482.68	
3.	Excavator (E12)	hour	0.1190	-	340,755.29	-	40,548.00	
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	212,266.60	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,651,118.86
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	365,111.89
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	4,016,230.75

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239f Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:	ESTIMATE QUANTITY OF	:
No. OF CONTRACT PACKAGE	:	WORKING	:
PACKAGE NAME	:	TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:	% TO PROJECT COST	:
NO OF PAYMENT ITEM	: 2.3 (9) f		
DESCRIPTION OF WORK	: Manhole Type VI ( U-Ditch 600 mm, RCP dia 800 mm )		
UNIT OF MEASUREMENT	: Each		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Concrete Class C (EI715)	CuM	2.1763	-	724,252.78	-	1,576,163.41
2	Concrete Class E (EI718)	CuM	0.3140	-	473,930.20	-	148,814.08
3	Boulder / River Stone (M07)	CuM	0.4710	-	169,000.00	-	79,599.00
4	Reinf. Steel - Grade 40 (EI734)	Kg	187.4324	-	9,444.25	-	1,770,158.16
<b>SUB TOTAL FOR MATERIALS</b>						-	3,574,734.65
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.5522	-	288,808.64	-	159,482.68
3.	Excavator (E12)	hour	0.1190	-	340,755.29	-	40,548.00
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	212,266.60
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	3,870,868.09
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	387,086.81
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	4,257,954.90

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-239g Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE	:			WORKING	:
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:
NO OF PAYMENT ITEM	:	2.3 (9) g			
DESCRIPTION OF WORK	:	MANHOLE TYPE VII			
UNIT OF MEASUREMENT	:	Each			

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	11.6667		6,394.59	-	74,603.55
2.	Skilled Labour (L03)	hour	2.3333		7,442.60	-	17,366.07
3.	Foreman (L04)	hour	2.3333		8,508.36	-	19,852.84
<b>SUB TOTAL FOR LABOUR</b>						-	111,822.46
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Concrete Class C (E1715)	CuM	0.7000	-	724,252.78	-	506,958.06
2	Concrete Class E (E1718)	CuM	0.1210	-	473,930.20	-	57,345.55
3	Boulder / River Stone (M07)	CuM	0.1815	-	169,000.00	-	30,673.50
4	Reinf. Steel - Grade 40 (E1734)	Kg	62.9572	-	9,444.25	-	594,583.24
<b>SUB TOTAL FOR MATERIALS</b>						-	1,189,560.35
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.1171	-	288,808.64	-	33,829.66
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	56,202.58
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,357,585.39
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	135,758.54
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	1,493,343.93

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239h Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (9) h		
DESCRIPTION OF WORK	:	Manhole Type VIII		
UNIT OF MEASUREMENT	:	Each		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66	
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55	
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63	
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (EI715)	CuM	1.9043	-	724,252.78	-	1,379,174.39	
2	Concrete Class E (EI718)	CuM	0.2550	-	473,930.20	-	120,852.20	
3	Boulder / River Stone (M07)	CuM	0.3825	-	169,000.00	-	64,642.50	
4	Reinf. Steel - Grade 40 (EI734)	Kg	328.4068	-	9,444.25	-	3,101,555.69	
<b>SUB TOTAL FOR MATERIALS</b>						-	4,666,224.78	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2510	-	288,808.64	-	72,492.13	
3.	Excavator (E12)	hour	0.0892	-	340,755.29	-	30,411.00	
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	115,139.05	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	4,865,230.67
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	486,523.07
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	5,351,753.74

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239i Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:				
No. OF CONTRACT PACKAGE	:				
PACKAGE NAME	:				
PROVINCE / REGENCY / MUNICIPALITY	:			ESTIMATE QUANTITY OF	
NO OF PAYMENT ITEM	:	2.3 (9) i		WORKING	:
DESCRIPTION OF WORK	:	Manhole Type IX		TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	:	Each		% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Concrete Class C (EI715)	CuM	1.8182	-	724,252.78	-	1,316,851.41
2	Concrete Class E (EI718)	CuM	0.2550	-	473,930.20	-	120,852.20
3	Boulder / River Stone (M07)	CuM	0.3825	-	169,000.00	-	64,642.50
4	Reinf. Steel - Grade 40 (EI734)	Kg	315.4991	-	9,444.25	-	2,979,652.01
<b>SUB TOTAL FOR MATERIALS</b>						-	4,481,998.12
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2510	-	288,808.64	-	72,492.13
3.	Excavator (E12)	hour	0.0892	-	340,755.29	-	30,411.00
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	115,139.05
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	4,681,004.01
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	468,100.40
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	5,149,104.41

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-239j Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:				
No. OF CONTRACT PACKAGE	:				
PACKAGE NAME	:				
PROVINCE / REGENCY / MUNICIPALITY	:			ESTIMATE QUANTITY OF	
NO OF PAYMENT ITEM	:	2.3 (9) j		WORKING	:
DESCRIPTION OF WORK	:	Manhole Type X		TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	:	Each		% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.7500		6,394.59	-	55,952.66
2.	Skilled Labour (L03)	hour	1.7500		7,442.60	-	13,024.55
3.	Foreman (L04)	hour	1.7500		8,508.36	-	14,889.63
<b>SUB TOTAL FOR LABOUR</b>						-	83,866.84
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Concrete Class C (EI715)	CuM	3.8249	-	724,252.78	-	2,770,220.32
2	Concrete Class E (EI718)	CuM	0.4860	-	473,930.20	-	230,330.08
3	Boulder / River Stone (M07)	CuM	0.7290	-	169,000.00	-	123,201.00
4	Reinf. Steel - Grade 40 (EI734)	Kg	290.6095	-	9,444.25	-	2,744,588.72
<b>SUB TOTAL FOR MATERIALS</b>						-	5,868,340.12
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2510	-	288,808.64	-	72,492.13
3.	Excavator (E12)	hour	0.0595	-	340,755.29	-	20,274.00
4.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	105,002.05
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	6,057,209.01
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	605,720.90
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	6,662,929.91

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2310 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:				ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:				WORKING
PACKAGE NAME	:				TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:				% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (10)			
DESCRIPTION OF WORK	:	Catch Basin Type I			
UNIT OF MEASUREMENT	:	Each			

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	5.0000		6,394.59	-	31,972.95	
2.	Skilled Labour (L03)	hour	1.0000		7,442.60	-	7,442.60	
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36	
<b>SUB TOTAL FOR LABOUR</b>						-	47,923.91	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1	Concrete Class C (E1715)	CuM	0.2769	-	724,252.78	-	200,559.82	
2	Concrete Class E (E1718)	CuM	0.0810	-	473,930.20	-	38,388.35	
3	Boulder / River Stone (M07)	CuM	0.1215	-	169,000.00	-	20,533.50	
4	Reinf. Steel - Grade 40 (E1734)	Kg	28.4480	-	9,444.25	-	268,670.13	
<b>SUB TOTAL FOR MATERIALS</b>						-	528,151.80	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92	
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.0359	-	288,808.64	-	10,356.02	
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00	
4.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	32,728.94	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	608,804.65
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	60,880.47
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	669,685.12

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-2312a Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) a	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS - 1 ( 300 mm with cover )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	33,546.74
<b>B. <u>MATERIALS</u></b>							
1.	Concrete Class C (E1715)	CuM	0.3396	724,252.78	-	245,956.24	-
2.	Concrete Class E (E1718)	CuM	0.0700	-	473,930.20	-	33,175.11
3.	Boulder / River Stone (M07)	CuM	0.1050	-	169,000.00	-	17,745.00
4.	Reinf. Steel - Grade 40 (E1734)	kg	20.1319	9,444.25	-	190,130.56	-
<b>SUB TOTAL FOR MATERIALS</b>						436,086.80	50,920.11
<b>C. <u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	39,259.99
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					436,086.80	123,726.84
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	55,981.36
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					436,086.80	179,708.20



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-2312b Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) b	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS - 2 ( 500 mm with cover )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	33,546.74
<b>B. <u>MATERIALS</u></b>							
1.	Concrete Class C (E1715)	CuM	0.5400	724,252.78	-	391,096.50	-
2.	Concrete Class E (E1718)	CuM	0.0900	-	473,930.20	-	42,653.72
3.	Boulder / River Stone (M07)	CuM	0.1350	-	169,000.00	-	22,815.00
4.	Reinf. Steel - Grade 40 (E1734)	kg	28.6189	9,444.25	-	270,283.64	-
<b>SUB TOTAL FOR MATERIALS</b>						661,380.14	65,468.72
<b>C. <u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	39,259.99
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					661,380.14	138,275.45
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	79,965.56
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					661,380.14	218,241.01

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2312c Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) c	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS - 3 ( 600 mm with cover)	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	5.8333		6,394.59	-	37,301.78
2.	Skilled Labour (L03)	hour	1.1667		7,442.60	-	8,683.03
3.	Foreman (L04)	hour	1.1667		8,508.36	-	9,926.42
<b>SUB TOTAL FOR LABOUR</b>						-	55,911.23
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Concrete Class C (E1715)	CuM	0.5700	724,252.78	-	412,824.08	-
2.	Concrete Class E (E1718)	CuM	0.1000	-	473,930.20	-	47,393.02
3.	Boulder / River Stone (M07)	CuM	0.1500	-	169,000.00	-	25,350.00
4.	Reinf. Steel - Grade 40 (E1734)	kg	27.3236	9,444.25	-	258,050.98	-
<b>SUB TOTAL FOR MATERIALS</b>						670,875.06	72,743.02
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2175	-	288,808.64	-	62,826.51
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	81,199.43
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					670,875.06	209,853.68
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	88,072.87
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					670,875.06	297,926.55

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2312d Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) d	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS - 3A ( 600 mm )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	5.8333		6,394.59	-	37,301.78
2.	Skilled Labour (L03)	hour	1.1667		7,442.60	-	8,683.03
3.	Foreman (L04)	hour	1.1667		8,508.36	-	9,926.42
<b>SUB TOTAL FOR LABOUR</b>						-	55,911.23
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Concrete Class C (E1715)	CuM	0.4350	724,252.78	-	315,049.96	-
2.	Concrete Class E (E1718)	CuM	0.1000	-	473,930.20	-	47,393.02
3.	Boulder / River Stone (M07)	CuM	0.1500	-	169,000.00	-	25,350.00
4.	Reinf. Steel - Grade 40 (E1734)	kg	20.3539	9,444.25	-	192,227.59	-
<b>SUB TOTAL FOR MATERIALS</b>						507,277.55	72,743.02
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Flat Bed Truck with Crane 5 Ton (E31)	hour	0.2175	-	288,808.64	-	62,826.51
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	81,199.43
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					507,277.55	209,853.68
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	71,713.12
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					507,277.55	281,566.80

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2312e Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) e	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS-4 ( 800 mm with cover )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	33,546.74
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Concrete Class C (EI715)	CuM	0.6300	724,252.78	-	456,279.25	-
2.	Concrete Class E (EI718)	CuM	0.1100	-	473,930.20	-	52,132.32
3.	Boulder / River Stone (M07)	CuM	0.1650	-	169,000.00	-	27,885.00
4.	Reinf. Steel - Grade 40 (EI734)	kg	29.1123	9,444.25	-	274,943.70	-
<b>SUB TOTAL FOR MATERIALS</b>						731,222.95	80,017.32
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3.	Excavator (E12)	hour	0.0595	-	340,755.29	-	20,274.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	49,396.99
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					731,222.95	162,961.05
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	89,418.40
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					731,222.95	252,379.45

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-2312f Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (12) f	WORKING
DESCRIPTION OF WORK	:	U-Ditch, DS - 4A ( 800 mm )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M.	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	33,546.74
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Concrete Class C (E1715)	CuM	0.4650	724,252.78	-	336,777.54	-
2.	Concrete Class E (E1718)	CuM	0.1200	-	473,930.20	-	56,871.62
3.	Boulder / River Stone (M07)	CuM	0.1800	-	169,000.00	-	30,420.00
4.	Reinf. Steel - Grade 40 (E1734)	kg	21.7109	9,444.25	-	205,042.76	-
<b>SUB TOTAL FOR MATERIALS</b>						541,820.30	87,291.62
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3.	Excavator (E12)	hour	0.0595	-	340,755.29	-	20,274.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	49,396.99
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					541,820.30	170,235.35
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	71,205.57
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					541,820.30	241,440.92

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-2312g Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE	:		WORKING	:
PACKAGE NAME	:		TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT	:
NO OF PAYMENT ITEM	:	2.3 (12) g	COST	:
DESCRIPTION OF WORK	:	U-Ditch, DS - 5 ( 300 mm with cover )		0.00
UNIT OF MEASUREMENT	:	Ln.M.		0.00

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	3.5000		6,394.59	-	22,381.07
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	33,546.74
<b>B. MATERIALS</b>							
1.	Concrete Class C (EI715)	CuM	0.1900	724,252.78	-	137,608.03	-
2.	Concrete Class E (EI718)	CuM	0.0600	-	473,930.20	-	28,435.81
3.	Boulder / River Stone (M07)	CuM	0.0900	-	169,000.00	-	15,210.00
4.	Reinf. Steel - Grade 40 (EI734)	kg	20.9608	9,444.25	-	197,959.47	-
<b>SUB TOTAL FOR MATERIALS</b>						335,567.50	43,645.81
<b>C. EQUIPMENT</b>							
1.	Tamper (E23)	hour	0.3012	-	24,023.26	-	7,235.92
2.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
3.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	39,259.99
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					<b>335,567.50</b>	<b>116,452.54</b>
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					<b>-</b>	<b>45,202.00</b>
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					<b>335,567.50</b>	<b>161,654.54</b>

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

El-2313 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		TOTAL PRICE (Rp.)
NO OF PAYMENT ITEM	:	2.3 (13)	% TO PROJECT COST
DESCRIPTION OF WORK	:	Drain Pipe Dia 15 cm and Ascories	
UNIT OF MEASUREMENT	:	Ln.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.4000		6,394.59	-	53,714.56
2.	Skilled Labour (L03)	hour	2.8000		7,442.60	-	20,839.28
3.	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL FOR LABOUR</b>						-	86,465.54
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	PVC Dia. 6" (M61)	Ln.M	10.0000	-	129,625.00	-	1,296,250.00
2.	Bend Dia. 6" / SOCH Dia. 6" (M63)	Each	2.0000	-	22,070.00	-	44,140.00
3.	Tee for Drain Pipe 6" (M89)	Each	1.0000	-	65,910.00	-	65,910.00
4.	Support (M92)	Each	5.0000	-	5,000.00	-	25,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,431,300.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Dump Truck 6 T (E37)	hour	0.0226	-	198,128.75	-	4,475.80
2.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,475.80
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,523,241.34
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	152,324.13
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>					-	1,675,565.47
<b>G.</b>	<b>WORKING UNIT PRICE ( F/10 )</b>					-	167,556.55

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-2314 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			
No. OF CONTRACT PACKAGE	:			
PACKAGE NAME	:			
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTYTY OF	
NO OF PAYMENT ITEM	:	2.3 (14)	WORKING	:
DESCRIPTION OF WORK	:	Drain Pipe Dia 20 cm and Ascesories	TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28	
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64	
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85	
<b>SUB TOTAL FOR LABOUR</b>						-	43,232.77	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	PVC Dia. 8" (M62)	Ln.M	10.0000	-	219,700.00	-	2,197,000.00	
2.	Bend Dia. 8" / SOCH Dia. 8" (M64)	Each	2.0000	-	58,750.00	-	117,500.00	
3.	Tee for Drain Pipe 8" (M90)	Each	1.0000	-	95,000.00	-	95,000.00	
4.	Support (M92)	Each	5.0000	-	5,000.00	-	25,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	2,434,500.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck 6 T (E37)	hour	0.0234	-	198,128.75	-	4,641.57	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,641.57	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	2,483,374.34
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	248,337.43
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>						-	2,731,711.77
<b>G.</b>	<b>WORKING UNIT PRICE ( F/10 )</b>						-	273,171.18



THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2315 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTIY OF
NO OF PAYMENT ITEM	:	2.3 (15)	WORKING
DESCRIPTION OF WORK	:	Drain Pipe Dia 25 cm and Ascseries	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28	
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64	
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85	
<b>SUB TOTAL FOR LABOUR</b>						-	43,232.77	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	PVC Dia. 10" (M86)	Ln.M	10.0000	-	309,625.00	-	3,096,250.00	
2.	Bend Dia. 10" / SOCH Dia. 10" (M87)	Each	2.0000	-	93,750.00	-	187,500.00	
3.	Tee for Drain Pipe 10" (M91)	Each	3.0000	-	125,000.00	-	375,000.00	
4.	Support (M92)	Each	5.0000	-	5,000.00	-	25,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,683,750.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck 6 T (E37)	hour	0.0125	-	198,128.75	-	2,476.61	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	3,476.61	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,730,459.38
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	373,045.94
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>						-	4,103,505.32
<b>G.</b>	<b>WORKING UNIT PRICE ( F/10 )</b>						-	410,350.53

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-2316 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	2.3 (16)	WORKING
DESCRIPTION OF WORK	:	Deck Drain Type I	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43	
2.	Skilled Labour (L03)	hour	0.3500		7,442.60	-	2,604.91	
3.	Foreman (L04)	hour	0.3500		8,508.36	-	2,977.93	
<b>SUB TOTAL FOR LABOUR</b>						-	14,535.27	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Deck drain (M207)	each	1.0000	-	780,000.00	-	780,000.00	
2.								
3.								
4.								
<b>SUB TOTAL FOR MATERIALS</b>						-	780,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck 6 T (E37)	hour	0.0030	-	198,128.75	-	596.77	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,596.77	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	796,132.04
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>						-	79,613.20
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>						-	875,745.24

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-2317 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTIY OF
NO OF PAYMENT ITEM	:	2.3 (17)	WORKING
DESCRIPTION OF WORK	:	Deck Drain Type II	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43	
2.	Skilled Labour (L03)	hour	0.3500		7,442.60	-	2,604.91	
3.	Foreman (L04)	hour	0.3500		8,508.36	-	2,977.93	
<b>SUB TOTAL FOR LABOUR</b>						-	14,535.27	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Deck drain (M208)	each	1.0000	-	2,200,000.00	-	2,200,000.00	
2.								
3.								
4.								
<b>SUB TOTAL FOR MATERIALS</b>						-	2,200,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck 6 T (E37)	hour	0.0030	-	198,128.75	-	596.77	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,596.77	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	2,216,132.04
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	221,613.20
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>						-	2,437,745.24

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-2318 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		
No. OF CONTRACT PACKAGE	:	
PACKAGE NAME	:	
PROVINCE / REGENCY / MUNICIPALITY	:	
NO OF PAYMENT ITEM	:	2.3 (18)
DESCRIPTION OF WORK	:	Steel Gutter
UNIT OF MEASUREMENT	:	Ln.m
		ESTIMATE QUANTITY OF WORKING :
		TOTAL PRICE (Rp.) :
		% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43
2.	Skilled Labour (L03)	hour	0.3500		7,442.60	-	2,604.91
3.	Foreman (L04)	hour	0.3500		8,508.36	-	2,977.93
<b>SUB TOTAL FOR LABOUR</b>						-	14,535.27
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Steel Gutter Screen (M78)	each	1.0000	6,694,725.00	16,625.00	6,694,725.00	16,625.00
<b>SUB TOTAL FOR MATERIALS</b>						6,694,725.00	16,625.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with crane 5 Ton (E31)	hour	0.0113	-	288,808.64	-	3,273.16
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,273.16
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					6,694,725.00	35,433.43
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	673,015.84
<b>F.</b>	<b>TOTAL UNIT PRICE ( D + E )</b>					6,694,725.00	708,449.27

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-2319 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	2.3 (19)	:
DESCRIPTION OF WORK	:	Outer Ditch for Viaduct	:
UNIT OF MEASUREMENT	:	Ln.M.	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.0000		6,394.59	-	25,578.36
2.	Skilled Labour (L03)	hour	2.0000		7,442.60	-	14,885.20
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36
<b>SUB TOTAL FOR LABOUR</b>						-	<b>48,971.92</b>
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Concrete Class B (EI2312e)	CuM	1.0034	-	608,776.02	-	610,845.86
2.	Reinf. Steel - Grade 40 (EI734)	Kg	115.3910	-	9,444.25	-	1,089,781.45
3.	Formwork / scaffolding	LS	1.0000	-	679,653.83	-	679,653.83
<b>SUB TOTAL FOR MATERIALS</b>						-	<b>2,380,281.14</b>
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	<b>5,000.00</b>
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	<b>2,434,253.06</b>
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	<b>243,425.31</b>
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	<b>2,677,678.37</b>
<b>G.</b>	<b>WORKING UNIT PRICE ( F ) / 5.78</b>					-	<b>463,266.15</b>

**DIVISION 3.  
EARTHWORKS**

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-311 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	3.1(1)		
DESCRIPTION OF WORK	:	Clearing and Grubbing		
UNIT OF MEASUREMENT	:	Sq.m		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.0301		6,394.59	-	192.61	
2.	Foreman (L04)	hour	0.0050		8,508.36	-	42.71	
<b>SUB TOTAL FOR LABOUR</b>						-	235.32	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Motor Grader (E15)	hour	0.0050	-	315,993.64	-	1,586.31	
2.	Tools	LS	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,586.31	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	2,821.63
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D						-	282.16
<b>F.</b>	WORKING UNIT PRICE ( D + E )						-	3,103.79

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-312 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUNTIY OF	
No. OF CONTRACT PACKAGE	:			WORKING	:
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:
NO OF PAYMENT ITEM	:	3.1(2)			
DESCRIPTION OF WORK	:	Selected Tree Removal Diameter < 30 cm			
UNIT OF MEASUREMENT	:	Each			

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	Hour	6.8158		6,394.59	-	43,584.47	
2.	Skilled Labour (L03)	Hour	1.1360		7,442.60	-	8,454.59	
3.	Foreman (L04)	Hour	1.1360		8,508.36	-	9,665.26	
<b>SUB TOTAL FOR LABOUR</b>							61,704.32	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.								
<b>SUB TOTAL FOR MATERIALS</b>							-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Saw Machine (E27)	hour	1.1360	-	25,116.32	-	28,531.45	
2.	Flat bed truck crane 5 t (E31)	hour	0.1900	-	288,808.64	-	54,873.64	
3.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	88,405.09	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	150,109.41
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	15,010.94
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	165,120.35



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-313 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :  
 No. OF CONTRACT PACKAGE :  
 PACKAGE NAME :  
 PROVINCE / REGENCY / MUNICIPALITY :  
 NO OF PAYMENT ITEM : 3.1(3)  
 DESCRIPTION OF WORK : Selected Tree Removal Diameter > 30 cm  
 UNIT OF MEASUREMENT : Each

ESTIMATE QUANTITY OF WORKING :  
 TOTAL PRICE (Rp.) :  
 % TO PROJECT COST :

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	Hour	11.3597		6,394.59	-	72,640.78	
2.	Skilled Labour (L03)	Hour	1.8933		7,442.60	-	14,090.98	
3.	Foreman (L04)	Hour	1.8933		8,508.36	-	16,108.77	
<b>SUB TOTAL FOR LABOUR</b>								102,840.53
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.								
<b>SUB TOTAL FOR MATERIALS</b>								-
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Saw Machine (E27)	hour	1.8933	-	25,116.32	-	47,552.41	
2.	Flat bed truck crane 5 t (E31)	hour	0.3917	-	288,808.64	-	113,116.72	
3.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>							-	165,669.13
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	268,509.66
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	26,850.97
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	295,360.63

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-321 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUNTITY OF		
No. OF CONTRACT PACKAGE	:			WORKING	:	
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:	
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:	
NO OF PAYMENT ITEM	:	3.2(1)				
DESCRIPTION OF WORK	:	Common Excavation				
UNIT OF MEASUREMENT	:	Cu. M				

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.0595		6,394.59	-	380.46
2.	Foreman (L04)	hour	0.0297		8,508.36	-	253.11
<b>SUB TOTAL FOR LABOUR</b>						-	633.57
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Excavator (E12)	hour	0.0297	-	340,755.29	-	10,137.00
2.	Dump Truck 6 T (E37)	hour	0.0214	-	198,128.75	-	4,243.72
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	15,380.72
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	16,014.29
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	1,601.43
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	17,615.72

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-322 Analysis

**UNIT PRICE ANALYSIS**

PROJECT

No. OF CONTRACT PACKAGE

PACKAGE NAME

PROVINCE / REGENCY / MUNICIPALITY

NO OF PAYMENT ITEM

DESCRIPTION OF WORK

UNIT OF MEASUREMENT

: 3.2(2)

: Excavation of Existing Pavement

: Cu.M

ESTIMATE QUANTITY OF

WORKING

TOTAL PRICE (Rp.)

% TO PROJECT COST

:

:

:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common labour (L02)	hour	1.0000		6,394.59	-	6,394.59	
2.	Foreman (L04)	hour	0.1000		8,508.36	-	850.84	
<b>SUB TOTAL FOR LABOUR</b>						-	7,245.43	
<b>B.</b>	<b><u>BAHAN</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>PERALATAN</u></b>							
1.	Compressor (E05)	hour	0.1000	-	123,276.35	-	12,327.64	
2.	Jack Hammer (E24)	hour	0.1000	-	21,008.79	-	2,100.88	
3.	Wheel Loader (E19)	hour	0.1000	-	240,283.08	-	24,028.31	
4.	Dump Truck 6 T (E37)	hour	0.0308	-	198,128.75	-	6,100.35	
5.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	45,557.18	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	52,802.61
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	5,280.26
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	58,082.87

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-323 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUNTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	3.2(3)		
DESCRIPTION OF WORK	:	Structure Excavation to a depth not exceeding 2 m		
UNIT OF MEASUREMENT	:	M3		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.2231		6,394.59	-	1,426.73	
2.	Foreman (L04)	hour	0.0558		8,508.36	-	474.59	
<b>SUB TOTAL FOR LABOUR</b>						-	1,901.32	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Excavator (E12)	hour	0.0558	-	340,755.29	-	19,006.88	
2.	Dump Truck 6 T (E37)	hour	0.0214	-	198,128.75	-	4,243.72	
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	24,250.60	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	26,151.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	2,615.19	
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	28,767.11

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-324 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :  
 No. OF CONTRACT PACKAGE :  
 PACKAGE NAME :  
 PROVINCE / REGENCY / MUNICIPALITY :  
 NO OF PAYMENT ITEM : 3.2(4)  
 DESCRIPTION OF WORK : Struc. Exc. to a depth greater than 2 m but not exceed  
 UNIT OF MEASUREMENT : M3

ESTIMATE QUNTITY OF WORKING :  
 TOTAL PRICE (Rp.) :  
 % TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.2746		6,394.59	-	1,755.97
2.	Foreman (L04)	hour	0.0687		8,508.36	-	584.10
<b>SUB TOTAL FOR LABOUR</b>						-	2,340.07
<b>B. <u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C. <u>EQUIPMENT</u></b>							
1.	Excavator (E12)	hour	0.0687	-	340,755.29	-	23,393.08
2.	Dump Truck 6 T (E37)	hour	0.0214	-	198,128.75	-	4,243.72
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	28,636.80
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	30,976.87
<b>E. OVERHEAD &amp; PROFIT</b>			10.00 % x D			-	3,097.69
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	34,074.56

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-325 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTITY OF
NO OF PAYMENT ITEM	:	3.2(5)	WORKING
DESCRIPTION OF WORK	:	Structure Excavation to a depth greater than 4 m	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	M3	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.3818		6,394.59	-	2,441.46	
2.	Foreman (L04)	hour	0.0955		8,508.36	-	812.12	
<b>SUB TOTAL FOR LABOUR</b>						-	3,253.58	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Excavator (E12)	hour	0.0955	-	340,755.29	-	32,525.14	
2.	Dump Truck 6 T (E37)	hour	0.0214	-	198,128.75	-	4,243.72	
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	37,768.86	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	41,022.44
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	4,102.24
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	45,124.68

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-327 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			
No. OF CONTRACT PACKAGE	:			
PACKAGE NAME	:			
PROVINCE / REGENCY / MUNICIPALITY	:			ESTIMATE QUNTIY OF
NO OF PAYMENT ITEM	:	3.2 (7)		WORKING
DESCRIPTION OF WORK	:	Rock Excavation		TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Cu. M		% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	1.3333		6,394.59	-	8,526.12	
2.	Foreman (L04)	hour	0.1667		8,508.36	-	1,418.06	
<b>SUB TOTAL FOR LABOUR</b>								9,944.18
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>								-
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.1667	-	123,276.35	-	20,546.06	
2.	Jack Hammer (E24)	hour	0.1667	-	21,008.79	-	3,501.47	
3.	Wheel Loader (E19)	hour	0.1667	-	270,655.03	-	45,109.17	
4.	Dump Truck (E37)	hour	0.0261	-	198,128.75	-	5,172.04	
5.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>								75,328.74
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	85,272.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	8,527.29
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	93,800.21

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-331 Analysis

**UNIT PRICE ANALYSIS**

PROJECT

No. OF CONTRACT PACKAGE

PACKAGE NAME

PROVINCE / REGENCY / MUNICIPALITY

NO OF PAYMENT ITEM : 3.3 (1)

DESCRIPTION OF WORK : Embankment with Material from Borrow

UNIT OF MEASUREMENT : Cu. M

ESTIMATE QUANTITY OF

WORKING :

TOTAL PRICE (Rp.) :

% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Labour (L02)	hour	0.0446		6,394.59	-	285.35	
2.	Foremen (L04)	hour	0.0223		8,508.36	-	189.83	
<b>SUB TOTAL FOR LABOUR</b>						-	475.18	
<b>B. MATERIAL</b>								
1.	Common embankment materia (M01)	M3	1.2000	-	77,700.00	-	93,240.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	93,240.00	
<b>C. EQUIPMENT</b>								
1.	Excavator (E12)	hour	0.0223	-	340,755.29	-	7,602.75	
2.	Dump Truck (E37)	hour	0.0211	-	198,128.75	-	4,177.41	
3.	Motor Grader (E15)	hour	0.0076	-	315,993.64	-	2,397.10	
4.	Vibro Roller (E19)	hour	0.0161	-	240,283.08	-	3,859.97	
5.	Water Tanker (E22)	hour	0.0022	-	226,906.38	-	503.60	
6.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	19,540.83	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	113,256.01
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	11,325.60
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	124,581.61



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

El-332 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	3.3(2)	WORKING
DESCRIPTION OF WORK	:	Structural Backfill	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Cu. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. <u>LABOUR</u></b>								
1.	Common Labour (L02)	hour	0.0357		6,394.59	-	228.28	
2.	Foreman (L04)	hour	0.0178		8,508.36	-	151.87	
<b>SUB TOTAL FOR LABOUR</b>						-	380.15	
<b>B. <u>MATERIALS</u></b>								
1.	Selected Material (M04)	M3	1.2000	-	108,000.00	-	129,600.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	129,600.00	
<b>C. <u>EQUIPMENT</u></b>								
1.	Whell Loader (E16)	hour	0.0178	-	270,655.03	-	4,830.97	
2.	Dump Truck 6 T (E37)	hour	0.0321	-	198,128.75	-	6,365.58	
3.	Motor Grader (E15)	hour	0.0061	-	315,993.64	-	1,938.83	
4.	Vibro Roller (E19)	hour	0.0100	-	240,283.08	-	2,412.48	
5.	Water Tanker (E22)	hour	0.0022	-	226,906.38	-	503.60	
6.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	17,051.46	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	147,031.61
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	14,703.16
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	161,734.77

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-333 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	3.3(3)	WORKING
DESCRIPTION OF WORK	:	Permeable Backfill	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Cu. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	0.0714		6,394.59	-	456.55
2.	Foreman (L04)	hour	0.0178		8,508.36	-	151.87
<b>SUB TOTAL FOR LABOUR</b>						-	608.42
<b>B. MATERIALS</b>							
1.	Sand for Embankment (M05)	M3	1.2000	-	118,300.00	-	141,960.00
<b>SUB TOTAL FOR MATERIALS</b>						-	141,960.00
<b>C. EQUIPMENT</b>							
1.	Wheel Loader (E16)	hour	0.0178	-	270,655.03	-	4,830.97
2.	Dump Truck (E37)	hour	0.0321	-	198,128.75	-	6,365.58
3.	Tamper (E23)	hour	0.3213	-	24,023.26	-	7,718.32
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	19,914.87
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	162,483.29
<b>E. OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	16,248.33
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	178,731.62

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-33 Analysis

PROJECT :			ESTIMATE QUNTY OF
No. OF CONTRACT PACKAGE :			WORKING :
PACKAGE NAME :			TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY :			% TO PROJECT COST :
NO OF PAYMENT ITEM :	SS3.3		
DESCRIPTION OF WORK :	Soil Improvement		
UNIT OF MEASUREMENT :	Cu. M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	471.5625		6,394.59	-	3,015,448.85	
2.	Skilled Labour (L03)	hour	94.3125		7,442.60	-	701,930.21	
3.	Foreman (L04)	hour	47.1563		8,508.36	-	401,222.35	
<b>SUB TOTAL OF LABOUR</b>						-	4,118,601.41	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Cement (M12)	Kg	66,234.3750	-	800.00	-	52,987,500.00	
2.	Additive (M237)	Kg	4,415.6250		12,000.00	-	52,987,500.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	105,975,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Jet Grout Machine (E50)	hour	47.1563	-	494,336.27	-	23,311,044.73	
2.	Dump Truck (E38)	hour	3.6575	-	261,450.05	-	956,258.97	
3.	Water tank Truck (E22)	hour	52.5003	-	226,906.38	-	11,912,652.40	
4.	Crane cap 100 Ton (E47)	hour	47.1563	-	1,363,629.71	-	64,303,663.51	
5.	Tools	Ls	1.0000		2,207,812.50	-	2,207,812.50	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	102,691,432.11	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	212,785,033.52
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	21,278,503.35
<b>F.</b>	<b>UNIT PRICE ( D+E )</b>						-	234,063,536.87
<b>G.</b>	<b>WORKING UNIT PRICE ( F/Vsi )</b>						-	530,080.20

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

El-334 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	3.3.(4)		
DESCRIPTION OF WORK	:	Lighweight Embankment		
UNIT OF MEASUREMENT	:	Cu.M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43	
2.	Skilled Labour (L03)	hour	0.3500		7,442.60	-	2,604.91	
3.	Foreman (L04)	hour	0.1750		8,508.36	-	1,488.96	
<b>SUB TOTAL FOR LABOUR</b>						-	13,046.30	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Foam Polystrene 6000x1030x (M231)	M3	3.8934	-	380,722.00	-	1,482,303.03	
<b>SUB TOTAL FOR MATERIALS</b>						-	1,482,303.03	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat bed truck crane 5 t (E31)	hour	0.0460	-	288,808.64	-	13,285.20	
2.	Tools	Ls.	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	18,285.20	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	1,513,634.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	151,363.45
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	1,664,997.98
<b>G.</b>	<b>WORKING UNIT PRICE ( F/M231 )</b>						-	427,646.27

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-335 Analysis

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY  
NO OF PAYMENT ITEM : 3.3.5  
DESCRIPTION OF WORK : Intermediate Concrete Slab and Accessories  
UNIT OF MEASUREMENT : Sq. M

ESTIMATE QUNTITY OF WORKING  
TOTAL PRICE (Rp.) :  
% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	28.0000		6,394.59	-	179,048.52	
2.	Skilled Labour (L03)	hour	14.0000		7,442.60	-	104,196.40	
3.	Foremen (L04)	hour	7.0000		8,508.36	-	59,558.52	
<b>SUB TOTAL FOR LABOUR</b>						-	342,803.44	
<b>B. MATERIAL</b>								
1	Curing Compound (M76)	Kg	20.0000	-	14,850.00	-	297,000.00	
2	Concrete Class C (EI-715)	M3	15.0000	-	724,252.78	-	10,863,791.70	
3	Wiremass (M232)	M3	100.0000	-	31,240.00	-	3,124,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	14,284,791.70	
<b>C. EQUIPMENT</b>								
1	Con. Vibrator (E07)	hour	1.0542	-	30,612.66	-	32,272.38	
2	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	33,272.38	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	14,660,867.52
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	1,466,086.75
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	16,126,954.27
<b>G.</b>	<b>WORKING UNIT PRICE F / 100</b>						-	161,269.54

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-341 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTY OF
NO OF PAYMENT ITEM	:	3.4(1)	WORKING
DESCRIPTION OF WORK	:	Sub Grade Preparation	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Sq. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.0241		6,394.59	-	154.09
2.	Foreman (L04)	hour	0.0040		8,508.36	-	34.17
<b>SUB TOTAL FOR LABOUR</b>						-	188.26
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Motor Grader (E15)	hour	0.0050	-	315,993.64	-	1,586.31
2.	Vibro Roller (E19)	hour	0.0040	-	240,283.08	-	964.99
3.	Water Tanker (E22)	hour	0.0002	-	226,906.38	-	50.36
4.	Appliance assister	Ls	1.0000		2,000.00	-	2,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,601.66
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	4,789.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	478.99
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	5,268.91

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

El-351 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	SS 3.5 (1)	ESTIMATE QUNTITY OF WORKING :
DESCRIPTION OF WORK	:	Mechanical Stabilized Earthwall	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Sq.M	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.8000		6,394.59	-	24,299.44
2.	Skilled Labour (L03)	hour	1.2667		7,442.60	-	9,427.29
3.	Foreman (L04)	hour	0.6333		8,508.36	-	5,388.63
<b>SUB TOTAL FOR LABOUR</b>						-	39,115.36
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	MSE WALL and Accessories (M77)	Sq.M	2.2500	1,226,475.00	25,000.00	2,759,568.75	56,250.00
<b>SUB TOTAL FOR MATERIALS</b>						2,759,568.75	56,250.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	hour	0.6333	-	288,808.64	-	182,912.14
2.	Tools	Ls.	1.0000		112,500.00	-	112,500.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	295,412.14
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					2,759,568.75	390,777.50
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	315,034.63
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					2,759,568.75	705,812.13
<b>G.</b>	<b>WORKING UNIT PRICE ( F/2.25 )</b>					1,226,475.00	313,694.28

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

El-352 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	SS 3.5 (2)		
DESCRIPTION OF WORK	:	Retaining Wall for Lighweight Embankment		
UNIT OF MEASUREMENT	:	Sq.M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	42.0000		6,394.59	-	268,572.78	
2.	Skilled Labour (L03)	hour	14.0000		7,442.60	-	104,196.40	
3.	Foreman (L04)	hour	7.0000		8,508.36	-	59,558.52	
<b>SUB TOTAL FOR LABOUR</b>						-	432,327.70	
<b>B. MATERIALS</b>								
1	Boulder / River Stone (M07)	M3	0.0810	-	169,000.00	-	13,689.00	
2	Concrete Class E (EI-718)	M3	0.1215	-	473,930.20	-	57,582.52	
3	Concrete Class C (EI-715)	M3	3.5375	-	724,252.78	-	2,562,044.21	
4	Reinf. Steel - Grade 40 (EI734)	Kg	265.3125	-	9,444.25	-	2,505,677.58	
5	H Couolumn (M245)	Kg	406.8000	-	13,000.00	-	5,288,400.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	10,427,393.31	
<b>C. EQUIPMENT</b>								
1.	Flat bed truck crane 5 t (E31)	hour	0.8000	-	289,980.98	-	231,984.78	
2	Tools	Ls.	1.0000		50,000.00	-	50,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	281,984.78	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	11,141,705.79
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	1,114,170.58
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	12,255,876.37
<b>G.</b>	<b>WORKING UNIT PRICE ( F/10 )</b>						-	1,225,587.64



**DIVISION 4.  
PAVEMENT WIDENING AND  
SHOULDERS**

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa EI-422

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUNTYTY OF WORKING :
No. OF CONTRACT PACKAGE :	TOTAL PRICE (Rp.) :
PACKAGE NAME :	% TO PROJECT COST :
PROVINCE / REGENCY / MUNICIPALITY :	
NO OF PAYMENT ITEM : 4.2.(2)	
DESCRIPTION OF WORK : Aggr. Base Class B, CBR Min 30%	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.1428		6,394.59	-	913.11	
2.	Foreman (L04)	hour	0.0357		8,508.36	-	303.73	
<b>SUB TOTAL FOR LABOUR</b>								1,216.84
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Coarse Aggregate (M08)	M3	0.3600	-	146,700.00	-	52,812.00	
2.	Fine Aggregate (M09)	M3	0.2400	-	155,500.00	-	37,320.00	
3.	Selected Material (M04)	M3	0.6000	-	108,000.00	-	64,800.00	
<b>SUB TOTAL FOR MATERIALS</b>							-	154,932.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1	Wheel Loader (E16)	hour	0.0357	-	270,655.03	-	9,661.94	
2	Dump Truck 6 T (E37)	hour	0.0343	-	198,128.75	-	6,789.95	
3	Motor Grader (E15)	hour	0.0088	-	315,993.64	-	2,776.05	
4	Vibratory Roller (E19)	hour	0.0134	-	240,283.08	-	3,216.64	
5	Water Tanker (E22)	hour	0.0022	-	226,906.38	-	503.60	
6	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>							-	23,948.18
<b>D.</b>	<b>TOTAL AMOUNT OF LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	180,097.02
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D				18,009.70	
<b>F.</b>	<b>UNIT PRICE OF WORKING ( D + E )</b>						-	198,106.72

**DIVISION 5.  
GRANULAR PAVEMENT**

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-511 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:				
No. OF CONTRACT PACKAGE	:				
PACKAGE NAME	:				
PROVINCE / REGENCY / MUNICIPALITY	:				
NO OF PAYMENT ITEM	:	5.1 (1)		ESTIMATE QUNTIY OF WORKING	:
DESCRIPTION OF WORK	:	Agg.Class A for Base, CBR Min 80%		TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	:	Cu. M		% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common labour (L02)	hour	0.2499		6,394.59	-	1,597.93
2.	Foreman (L04)	hour	0.0357		8,508.36	-	303.73
<b>SUB TOTAL FOR LABOUR</b>						-	1,901.66
<b>B. <u>MATERIALS</u></b>							
1.	Coarse Aggregate (M08)	M3	0.6600	-	146,700.00	-	96,822.00
2.	Fine Aggregate (M09)	M3	0.5400	-	155,500.00	-	83,970.00
<b>SUB TOTAL FOR MATERIALS</b>						-	180,792.00
<b>C. <u>EQUIPMENT</u></b>							
1.	Wheel Loader (E16)	hour	0.0357	-	270,655.03	-	9,661.94
2.	Dump Truck 6 T (E37)	hour	0.0278	-	198,128.75	-	5,516.84
3.	Motor Grader (E15)	hour	0.0117	-	315,993.64	-	3,701.40
4.	Vibratory Roller (E19)	hour	0.0134	-	240,283.08	-	3,216.64
5.	Water Tanker (E22)	hour	0.0032	-	226,906.38	-	719.42
6.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	23,816.24
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	206,509.90
<b>E. OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	20,650.99
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	227,160.89

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa EI-512

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	5.1.(2)	WORKING
DESCRIPTION OF WORK	:	Aggr. Base Class B, CBR Min 35%	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Cu. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.2499		6,394.59	-	1,597.93
2.	Foreman (L04)	hour	0.0357		8,508.36	-	303.73
<b>SUB TOTAL FOR LABOUR</b>						-	1,901.66
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Coarse Aggregate (M08)	M <sup>3</sup>	0.4200	-	146,700.00	-	61,614.00
2.	Fine Aggregate (M09)	M <sup>3</sup>	0.2400	-	155,500.00	-	37,320.00
3.	Selected Material (M04)	M <sup>2</sup>	0.5400	-	108,000.00	-	58,320.00
<b>SUB TOTAL FOR MATERIALS</b>						-	157,254.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1	Wheel Loader (E16)	hour	0.0357	-	270,655.03	-	9,661.94
2	Dump Truck 6 T (E37)	hour	0.0493	-	198,128.75	-	9,760.56
3	Motor Grader (E15)	hour	0.0088	-	315,993.64	-	2,776.05
4	Vibratory Roller (E19)	hour	0.0134	-	240,283.08	-	3,216.64
5	Water Tanker (E22)	hour	0.0022	-	226,906.38	-	503.60
6	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	26,918.79
<b>D.</b>	<b>TOTAL AMOUNT OF LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	186,074.45
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.0 % x D		-	18,607.45
<b>F.</b>	<b>UNIT PRICE OF WORKING ( D + E )</b>					-	204,681.90

**DIVISION 6.  
ASPHALT PAVEMENT**

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-611Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			
No. OF CONTRACT PACKAGE	:		ESTIMATE QUANTITY OF	
PACKAGE NAME	:		WORKING	:
PROVINCE / REGENCY / MUNICIPALITY	:		TOTAL PRICE (Rp.)	:
NO OF PAYMENT ITEM	:	6.1 (1)	% TO PROJECT COST	:
DESCRIPTION OF WORK	:	Prime Coat		
UNIT OF MEASUREMENT	:	Litre		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.0226		6,394.59	-	144.46	
2.	Foreman (L04)	hour	0.0045		8,508.36	-	38.44	
<b>SUB TOTAL FOR LABOUR</b>						-	182.90	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Asphalt (M22)	Kg	0.6417	-	6,200.00	-	3,978.33	
2.	Kerosene (M24)	litre	0.4889	-	2,794.50	-	1,366.20	
<b>SUB TOTAL FOR MATERIALS</b>						-	5,344.53	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Asp. Sprayer (E03)	hpur	0.0045	-	34,710.78	-	156.83	
2.	Compressor (E05)	hour	0.0031	-	123,276.35	-	385.24	
3.	Dump Truck 6 T (E37)	hour	0.0045	-	198,128.75	-	895.16	
4.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,937.23	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	7,464.66
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	746.47	
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	8,211.13

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-612 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPA :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 6.1 (2)	
DESCRIPTION OF WORK : Tack Coat	
UNIT OF MEASUREMENT : Litre	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. <u>LABOUR</u></b>								
1.	Common Labour (L02)	hour	0.0226		6,394.59	-	144.46	
2.	Foreman (L04)	hour	0.0045		8,508.36	-	38.44	
<b>SUB TOTAL FOR LABOUR</b>						-	182.90	
<b>B. <u>MATERIAL</u></b>								
1.	Asphalt (M22)	Kg	0.8880	-	6,200.00	-	5,505.57	
2.	Kerosene (M24)	litre	0.2530	-	2,794.50	-	707.01	
<b>SUB TOTAL FOR MATERIALS</b>						-	6,212.58	
<b>C. <u>EQUIPMENT</u></b>								
1.	Asp. Sprayer (E03)	hour	0.0045	-	34,710.78	-	156.83	
2.	Compressor (E05)	hour	0.0031	-	123,276.35	-	385.24	
3.	Dump Truck 6 T (E37)	hour	0.0045	-	198,128.75	-	895.16	
4.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,937.23	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	8,332.71
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	833.27
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	9,165.98



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-631 Analysis

**UNIT PRICE ANALYSIS**

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY :  
NO OF PAYMENT ITEM : 6.3 (1)  
DESCRIPTION OF WORK : Asphalt Concrete Wearing Course (AC-WC)  
UNIT OF MEASUREMENT : Ton

ESTIMATE QUANTITY OF WORKING :  
TOTAL PRICE (Rp.) :  
% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	0.0078		6,394.59	-	49.99	
2.	Foreman (L04)	hour	0.0010		8,508.36	-	8.31	
<b>SUB TOTAL FOR LABOUR</b>						-	58.30	
<b>B. MATERIALS</b>								
1.	Coarse Aggregate (M08)	M3	0.0087	-	146,700.00	-	1,280.36	
2.	Fine Aggregate (M09)	M3	0.0051	-	155,500.00	-	786.09	
3.	Filler (M10)	Kg	0.5353	-	1,000.00	-	535.26	
4.	Asphalt (M22)	Kg	1.3540	-	6,200.00	-	8,394.58	
<b>SUB TOTAL FOR MATERIALS</b>						-	10,996.29	
<b>C. EQUIPMENT</b>								
1.	Wheel Loader (E16)	hour	0.0004	-	270,655.03	-	108.83	
2.	AMP (E01)	hour	0.0010	-	2,078,656.80	-	2,031.07	
3.	Genset 125 KVA (E13)	hour	0.0010	-	243,426.95	-	237.85	
4.	Dump Truck 10 T (E38)	hour	0.0055	-	261,450.05	-	1,435.71	
5.	Asp. Finisher (E02)	hour	0.0010	-	256,044.89	-	250.18	
6.	Tandem Roller (E17)	hour	0.0032	-	204,397.17	-	656.70	
7.	Tire Roller (E18)	hour	0.0023	-	220,893.42	-	506.93	
8.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,727.27	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	16,781.86
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	1,678.19	
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E ) in SqM</b>						-	18,460.05
<b>G.</b>	<b>WORKING UNIT PRICE in CuM</b>						-	1,846,005.00
<b>H.</b>	<b>WORKING UNIT PRICE in TONNAGE</b>						-	802,610.87

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-632 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	6.3 (2)	WORKING
DESCRIPTION OF WORK	:	Asphalt Concrete - Binder Course (AC-BC)	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ton	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	0.7852		6,394.59	-	5,021.17
2.	Foreman (L04)	hour	0.0982		8,508.36	-	835.12
SUB TOTAL FOR LABOUR						-	5,856.29
<b>B. MATERIAL</b>							
1.	Coarse Aggregate (M08)	M3	0.8558	-	146,700.00	-	125,546.94
2.	Fine Aggregate (M09)	M3	0.5377	-	155,500.00	-	83,609.24
3.	Filler (M10)	Kg	26.8840	-	1,000.00	-	26,884.00
4.	Asphalt (M22)	Kg	146.2734	-	6,200.00	-	906,895.08
SUB TOTAL FOR MATERIALS						-	1,142,935.26
<b>C. EQUIPMENT</b>							
1.	Wheel Loader (E16)	hour	0.0404	-	270,655.03	-	10,932.30
2.	AMP (E01)	hour	0.0982	-	2,078,656.80	-	204,025.59
3.	Genset 125 KVA (E13)	hour	0.0982	-	243,426.95	-	23,892.99
4.	Dump Truck 10 T (E38)	hour	0.5516	-	261,450.05	-	144,220.47
5.	Asphalt Finisher (E02)	hour	0.0815	-	256,044.89	-	20,859.12
6.	Tandem Roller (E17)	hour	0.1721	-	204,397.17	-	35,180.24
7.	Tire Roller (E18)	hour	0.1285	-	220,893.42	-	28,387.91
8.	Tools	Ls	1.0000		1,000.00	-	1,000.00
SUB TOTAL FOR EQUIPMENT						-	468,498.62
D. TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	1,617,290.17
E. OVERHEAD & PROFIT 10.00 % x D						-	161,729.02
F. TOTAL WORKING UNIT PRICE ( D + E ) in Cu.M						-	1,779,019.19
G. WORKING UNIT PRICE ( D + E ) in Ton						-	773,486.60

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-633 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT
NO OF PAYMENT ITEM	:	6.3 (3)	COST
DESCRIPTION OF WORK	:	AC-Base Course	
UNIT OF MEASUREMENT	:	Ton	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	Hour	0.6466		6,394.59	-	4,134.65	
2.	Mandor (L04)	Hour	0.0924		8,508.36	-	785.91	
<b>SUB TOTAL FOR LABOUR</b>						-	4,920.56	
<b>B.</b>	<b><u>MATERIAL</u></b>							
1.	Course Aggregate (M08)	Cu.M	0.9132	-	146,700.00	-	133,962.31	
2.	Fine Aggregate (M09)	Cu.M	0.5026	-	155,500.00	-	78,157.70	
3.	Filler (M10)	Kg	12.0750	-	1,000.00	-	12,075.00	
4.	Asphalt (M22)	Kg	133.7220	-	6,200.00	-	829,076.40	
<b>SUB TOTAL FOR MATERIALS</b>						-	1,053,271.41	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Wheel Loader (E16)	Hour	0.0444	-	270,655.03	-	12,008.23	
2.	AMP (E01)	Hour	0.0924	-	2,078,656.80	-	192,004.44	
3.	Genset 125 KVA (E13)	hour	0.0924	-	243,426.95	-	22,485.22	
4.	Dump Truck (E37)	Hour	0.5175	-	198,128.75	-	102,531.63	
5.	Asphalt Finisher (E02)	Hour	0.0719	-	256,044.89	-	18,403.23	
6.	Tandem Roller (E17)	Hour	0.1786	-	204,397.17	-	36,499.49	
7.	Tire Roller (E18)	Hour	0.1000	-	220,893.42	-	22,089.34	
8.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	407,021.58	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	1,465,213.55
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00	<b>% x D</b>		-	146,521.36
<b>F.</b>	<b>WORKING UNIT PRICE in Cu.M</b>						-	1,611,734.91
<b>H</b>	<b>WORKING UNIT PRICE Ton</b>						-	700,754.31

**DIVISION 7.  
STRUCTURES**

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-711aAnalysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(1)a	
DESCRIPTION OF WORK : Structure Concrete Class A (fc=35 Mpa) for Post Tension Girder	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70
<b>SUB TOTAL FOR LABOUR</b>						-	4,619.03
<b>B. <u>MATERIALS</u></b>							
1	Cement (PC) (M12)	Kg	464.0000	-	800.00	-	371,200.00
2	Concrete sand (M06)	M3	0.4044	-	182,800.00	-	73,924.32
3	Coarse Aggregate (M08)	M3	0.4060	-	146,700.00	-	59,560.20
4	Formwork for PC Girder (M81)	M3	1.0000	-	679,653.83	-	679,653.83
5	Nail (M18)	Kg	1.5000	-	8,900.00	-	13,350.00
6	Admixture (M209)	kg	20.0000	10,000.00	50.00	200,000.00	1,000.00
7	Anchor (EI-7116)	each	0.0123	-	237,333.36	-	2,916.23
8	Corrugated steel pipe dia 900 mm (M236)	Ln.M	0.3214	-	660,000.00	-	212,100.90
<b>SUB TOTAL FOR MATERIALS</b>						200,000.00	1,413,705.48
<b>C. <u>EQUIPMENT</u></b>							
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3466	-	146,827.23	-	50,888.36
3.	Con. Vibrator (E07)	hour	0.0402	-	30,612.66	-	1,229.42
4.	Con, Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16
5.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	81,993.10
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					200,000.00	1,500,317.61
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	170,031.76
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					200,000.00	1,670,349.37

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-711bAnalysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(1)b	
DESCRIPTION OF WORK : Structure Concrete Class A (fc'=35 Mpa) for Steel Girder	
UNIT OF MEASUREMENT : Cu. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70
<b>SUB TOTAL FOR LABOUR</b>						-	4,619.03
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cement (M12)	Kg	464.0000	-	800.00	-	371,200.00
2.	Sand (M06)	M3	0.4044	-	182,800.00	-	73,924.32
3.	Coarse Aggregate (M08)	M3	0.4060	-	146,700.00	-	59,560.20
4.	Formwork for Steel Girder (M82)	M3	1.0000	-	1,741,666.46	-	1,741,666.46
5.	Nail (M19)	Kg	1.5000	-	8,900.00	-	13,350.00
6.	Admixture (M209)	kg	20.0000	10,000.00	50.00	200,000.00	1,000.00
<b>SUB TOTAL FOR MATERIALS</b>						200,000.00	2,260,700.98
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3466	-	146,827.23	-	50,888.36
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28
4.	Con. Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16
5.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	81,443.96
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					200,000.00	2,346,763.97
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	254,676.40
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					200,000.00	2,601,440.37

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

El-712a Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(2)a	
DESCRIPTION OF WORK : Structure Concrete Class B - (fc'=30 Mpa) for Pier Head	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70
<b>SUB TOTAL OF LABOUR</b>						-	4,619.03
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cement (M12)	Kg	417.5907	-	800.00	-	334,072.60
2.	Sand (M06)	M3	0.5250	-	182,800.00	-	95,970.73
3.	Coarse Aggregate (M08)	M3	0.4374	-	146,700.00	-	64,161.01
4.	Formwork & Scaffolding (M28)	M3	0.2500	-	1,705,829.50	-	426,457.38
5.	Nail (M19)	Kg	1.5000	-	8,900.00	-	13,350.00
6.	Admixture (M209)	kg	20.0000	10,000.00	50.00	200,000.00	1,000.00
<b>SUB TOTAL FOR MATERIALS</b>						200,000.00	935,011.72
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3409	-	146,827.23	-	50,047.05
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28
4.	Con. Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16
5.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	80,602.65
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					200,000.00	1,020,233.40
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	122,023.34
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					200,000.00	1,142,256.74

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-712b Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(2)b	
DESCRIPTION OF WORK : Structure Concrete Class B - (f'c=30 Mpa) for Coulum	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70
<b>SUB TOTAL OF LABOUR</b>						-	4,619.03
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cement (M12)	Kg	437.5907	-	800.00	-	350,072.60
2.	Sand (M06)	M3	0.5250	-	182,800.00	-	95,970.73
3.	Coarse Aggregate (M08)	M3	0.4374	-	146,700.00	-	64,161.01
4.	Formwork & Scaffolding (M28)	M3	0.2000	-	1,705,829.50	-	341,165.90
5.	Nail (M18)	Kg	1.5000	-	8,900.00	-	13,350.00
<b>SUB TOTAL FOR MATERIALS</b>						-	864,720.24
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3409	-	146,827.23	-	50,047.05
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28
4.	Con. Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16
5.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	80,602.65
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	949,941.92
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	94,994.19
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	1,044,936.11



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-712c Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(2)c	
DESCRIPTION OF WORK : Structure Conc. Class B - (fc'=30 Mpa) for Composite Coulum	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	7.4187		6,394.59	-	47,439.55
2.	Skilled Labour (L03)	hour	2.4729		7,442.60	-	18,404.81
3.	Foreman (L04)	hour	0.6182		8,508.36	-	5,260.08
<b>SUB TOTAL OF LABOUR</b>						-	71,104.44
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cement (M12)	Kg	6,736.1862	-	800.00	-	5,388,948.96
2.	Sand (M06)	M3	8.0818	-	182,800.00	-	1,477,354.61
3.	Coarse Aggregate (M08)	M3	6.7327	-	146,700.00	-	987,682.00
4.	Structure Couulum Casing (Inner Ribbed (SS7110a) Steel Pipe dia 1400mm t=19mm)	Ln.M	10.0000	7,276,500.00	544,302.20	72,765,000.00	5,443,022.00
5.	Structure Couulum Casing (erected) (SS7111a)	Ln.M	10.0000	-	278,869.51	-	2,788,695.10
<b>SUB TOTAL FOR MATERIALS</b>						72,765,000.00	16,085,702.67
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Batching Plant (E10)	hour	0.3421	-	695,662.10	-	237,975.24
2.	Agitator Truck/Mixer truck (E11)	hour	5.2471	-	146,827.23	-	770,414.54
3.	Con. Vibrator (E07)	hour	0.3421	-	30,612.66	-	10,472.12
4.	Con. Pump (E08)	hour	0.6182	-	334,062.30	-	206,525.69
5.	Tools	Ls	1.0000		1,000,000.00	-	1,000,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,225,387.59
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					72,765,000.00	18,382,194.70
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	9,114,719.47
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					72,765,000.00	27,496,914.17
<b>G.</b>	<b>WORKING UNIT PRICE ( D / Q )</b>					4,726,901.81	1,786,232.58

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-712d Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF WORKING :
No. OF CONTRACT PACKAGE :	TOTAL PRICE (Rp.) :
PACKAGE NAME :	% TO PROJECT COST :
PROVINCE / REGENCY / MUNI :	
NO OF PAYMENT ITEM : 7.1.(2)d	
DESCRIPTION OF WORK : Structure Concrete Class B - (fc=30 Mpa) for Abutment	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73	
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60	
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70	
<b>SUB TOTAL OF LABOUR</b>						-	4,619.03	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Cement (M12)	Kg	437.5907	-	800.00	-	350,072.60	
2.	Sand (M06)	M3	0.5250	-	182,800.00	-	95,970.73	
3.	Coarse Aggregate (M08)	M3	0.4374	-	146,700.00	-	64,161.01	
4.	Formwork & Scaffolding (M28)	M3	0.1250	-	1,705,829.50	-	213,228.69	
5.	Nail (M19)	Kg	1.5000	-	8,900.00	-	13,350.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	736,783.03	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16	
2.	Agitator Truck/Mixer truck (E11)	hour	0.3409	-	146,827.23	-	50,047.05	
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28	
4.	Con, Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16	
5.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	80,602.65	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	822,004.71
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	82,200.47
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	904,205.18

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-713a Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(3)a	
DESCRIPTION OF WORK : Structure Concrete Class B-1 (fc'=28 Mpa) for Barrier, Median	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73	
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60	
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70	
<b>SUB TOTAL FOR LABOUR</b>						-	4,619.03	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Cement (M12)	Kg	392.2085	-	800.00	-	313,766.79	
2.	Sand (M06)	M3	0.5367	-	182,800.00	-	98,113.90	
3.	Coarse Aggregate (M08)	M3	0.4471	-	146,700.00	-	65,593.82	
4.	Formwork & Scaffolding (M28)	M3	0.1250	-	1,705,829.50	-	213,228.69	
5.	Nail (M19)	Kg	1.0000	-	8,900.00	-	8,900.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	699,603.20	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16	
2.	Agitator Truck/Mixer truck (E11)	hour	0.3406	-	146,827.23	-	50,003.91	
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28	
4.	Con, Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16	
5.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	80,559.51	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	784,781.74
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	78,478.17
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	863,259.91

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-713b Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNI :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1.(3)b	
DESCRIPTION OF WORK : Structure Concrete Class B-1 (fc'=28 Mpa) for Parapet wall	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	0.4819		6,394.59	-	3,081.73	
2.	Skilled Labour (L03)	hour	0.1606		7,442.60	-	1,195.60	
3.	Foreman (L04)	hour	0.0402		8,508.36	-	341.70	
<b>SUB TOTAL FOR LABOUR</b>						-	4,619.03	
<b>B. MATERIALS</b>								
1.	Cement (M12)	Kg	392.2085	-	800.00	-	313,766.79	
2.	Sand (M06)	M3	0.5367	-	182,800.00	-	98,113.90	
3.	Coarse Aggregate (M08)	M3	0.4471	-	146,700.00	-	65,593.82	
4.	Formwork & Scaffolding (M28)	M3	0.1000	-	1,705,829.50	-	170,582.95	
5.	Nail (M19)	Kg	1.0000	-	8,900.00	-	8,900.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	656,957.46	
<b>C. EQUIPMENT</b>								
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16	
2.	Agitator Truck/Mixer truck (E11)	hour	0.3406	-	146,827.23	-	50,003.91	
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28	
4.	Con. Pump (E08)	hour	0.0402	-	334,062.30	-	13,416.16	
5.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	80,559.51	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	<b>742,136.00</b>
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	<b>74,213.60</b>
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	<b>816,349.60</b>

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-715 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :  
 No. OF CONTRACT PACKAGE :  
 PACKAGE NAME :  
 PROVINCE / REGENCY / MUNI :  
 NO OF PAYMENT ITEM : 7.1 (5)  
 DESCRIPTION OF WORK : Structure Concrete Class C - (fc'=24 Mpa) for Footing, Approach slab and  
 UNIT OF MEASUREMENT : Cu.M

ESTIMATE QUANTITY OF WORKING :  
 TOTAL PRICE (Rp.) :  
 % TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	0.2667		6,394.59	-	1,705.22
2.	Skilled Labour (L03)	hour	0.0889		7,442.60	-	661.56
3.	Foreman (L04)	hour	0.0222		8,508.36	-	189.07
<b>SUB TOTAL OF LABOUR</b>						-	2,555.85
<b>B. MATERIALS</b>							
1.	Cement (M12)	Kg	381.8217	-	800.00	-	305,457.38
2.	Sand (M06)	M3	0.6050	-	182,800.00	-	110,598.75
3.	Coarse Aggregate (M08)	M3	0.4038	-	146,700.00	-	59,230.22
4.	Formwork & Scaffolding (M28)	M3	0.1000	-	1,705,829.50	-	170,582.95
5.	Nail (M19)	Kg	1.0000	-	8,900.00	-	8,900.00
<b>SUB TOTAL FOR MATERIALS</b>						-	654,769.30
<b>C. EQUIPMENT</b>							
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3391	-	146,827.23	-	49,788.19
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28
4.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	66,927.63
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	724,252.78
<b>E. OVERHEAD &amp; PROFIT</b> 10.00 % x D						-	72,425.28
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	796,678.06

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-716 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:	WORKING
PACKAGE NAME	:	TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:	% TO PROJECT COST
NO OF PAYMENT ITEM	: 7.1 (6)	
DESCRIPTION OF WORK	: Structure Concrete Class D - (fc'=20 Mpa)	
UNIT OF MEASUREMENT	: Cu. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.2667		6,394.59	-	1,705.22
2.	Skilled Labour (L03)	hour	0.0889		7,442.60	-	661.56
3.	Foreman (L04)	hour	0.0222		8,508.36	-	189.07
<b>SUB TOTAL OF LABOUR</b>						-	2,555.85
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cement (M12)	Kg	326.0207	-	800.00	-	260,816.55
2.	Sand (M06)	M3	0.4585	-	182,800.00	-	83,807.69
3.	Coarse Aggregate (M08)	M3	0.5183	-	146,700.00	-	76,036.94
4.	Formwork & Scaffolding (M28)	M3	0.0500	-	1,705,829.50	-	85,291.48
5.	Nail (M19)	Kg	0.4000	-	8,900.00	-	3,560.00
<b>SUB TOTAL FOR MATERIALS</b>						-	509,512.66
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Batching Plant (E10)	hour	0.0222	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.3388	-	146,827.23	-	49,745.05
3.	Con. Vibrator (E07)	hour	0.0222	-	30,612.66	-	680.28
4.	Tools	Ls	1.0000	-	1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	66,884.49
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	578,953.00
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	57,895.30
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	636,848.30

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-718 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.1 (8)	
DESCRIPTION OF WORK : Lean Concrete Class E (fc'= 17 Mpa)	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	0.2667		6,394.59	-	1,705.22
2.	Skilled labour (L03)	hour	0.0889		7,442.60	-	661.56
3.	Foreman (L04)	hour	0.0222		8,508.36	-	189.07
<b>SUB TOTAL OF LABOUR</b>						-	2,555.85
<b>B. MATERIALS</b>							
1.	Cement (M12)	Kg	139.6218	-	800.00	-	111,697.41
2.	Sand (M06)	M3	0.7082	-	182,800.00	-	129,450.66
3.	Coarse Aggregate (M08)	M3	0.4108	-	146,700.00	-	60,264.83
5.	Scaffolding (M28)	M3	0.0500	-	1,705,829.50	-	85,291.48
6.	Nail (M19)	Kg	0.4000	-	8,900.00	-	3,560.00
<b>SUB TOTAL FOR MATERIALS</b>						-	390,264.38
<b>C. EQUIPMENT</b>							
1.	Batching Plant (E10)	hour	0.02	-	695,662.10	-	15,459.16
2.	Agitator Truck/Mixer truck (E11)	hour	0.38	-	146,827.23	-	56,386.96
3.	Con. Vibrator (E20)	hour	0.02	-	371,873.12	-	8,263.85
4.	Tools	Ls	1.00		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	81,109.97
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	473,930.20
<b>E. OVERHEAD &amp; PROFIT</b> 10.00 % x D						-	47,393.02
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	521,323.22

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

El-718 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUNTIY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.1.(9)	
DESCRIPTION OF WORK	:	Waterproofing on Deck	
UNIT OF MEASUREMENT	:	Sq.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.2800		6,394.59	-	1,790.49	
2.	Skilled Labour (L03)	hour	0.1400		7,442.60	-	1,041.96	
3.	Foreman (L04)	hour	0.1400		8,508.36	-	1,191.17	
<b>SUB TOTAL OF LABOUR</b>						-	4,023.62	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Waterproofing material (powde (M217)	Kg	1.1200	-	18,000.00	-	20,160.00	
2.	Waterproofing material (liquid) (M217)	Kg	0.5600	-	18,000.00	-	10,080.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	30,240.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck (E37)	hour	0.0001	-	198,128.75	-	23.21	
2.	Tools	Ls	1.0000		2,000.00	-	2,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,023.21	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	36,286.83
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	3,628.68
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	39,915.51



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-SS7110 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	SS7.1 (10)	WORKING
DESCRIPTION OF WORK	:	Structure Bore Pile Casing (Inner Ribbed Steel Pipe dia	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Kg	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	9.6386		6,394.59	-	61,634.60
2.	Skilled Labour (L03)	hour	1.6064		7,442.60	-	11,955.98
3.	Foreman (L04)	hour	0.8032		8,508.36	-	6,834.02
<b>SUB TOTAL OF LABOUR</b>						-	80,424.60
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Inner Ribbed Steel Pipe dia 2500 mm, t = 13 mm (M83)	Ton	4.8000	13,500,000.00	208,333.00	64,800,000.00	999,998.40
<b>SUB TOTAL FOR MATERIALS</b>						64,800,000.00	999,998.40
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 16 ton (E39)	hour	0.8032	-	375,981.62	-	301,993.27
2.	Tools	Ls	1.0000		120,000.00	-	120,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	421,993.27
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					64,800,000.00	1,502,416.27
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	6,630,241.63
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					64,800,000.00	8,132,657.90
<b>G.</b>	<b>WORKING UNIT PRICE ( D/(6*800) )</b>					13,500.00	1,694.30

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-SS7111 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	SS7.1 (11)	WORKING
DESCRIPTION OF WORK	:	Structure Bore Pile Casing dia 2500 mm (Erected)	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Kg	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	49.6988		6,394.59	-	317,803.42
2.	Skilled Labour (L03)	hour	13.2530		7,442.60	-	98,636.87
3.	Foreman (L04)	hour	3.3133		8,508.36	-	28,190.35
<b>SUB TOTAL OF LABOUR</b>						-	444,630.64
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 16 ton (E39)	hour	3.3133	-	375,981.62	-	1,245,722.23
2.	Tools	Ls	1.0000		240,000.00	-	240,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,485,722.23
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )					-	1,930,352.87
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D					-	193,035.29
<b>F.</b>	UNIT PRICE ( D + E )					-	2,123,388.16
<b>G.</b>	WORKING UNIT PRICE ( D/(6*800) )					-	442.37

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-729 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.2.9	WORKING
DESCRIPTION OF WORK	:	PC Strand Size 12.7 MM	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Kg	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	42.0000		6,394.59	-	268,572.78
2.	Skilled Labour (L03)	hour	14.0000		7,442.60	-	104,196.40
3.	Foreman (L04)	hour	7.0000		8,508.36	-	59,558.52
<b>SUB TOTAL OF LABOUR</b>						-	432,327.70
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	PC Strand Size 12.7 MM (M35)	Kg	557.8373	12,537.30	82.00	6,993,773.33	45,742.66
2.	Cable Instalation (L02) Spw	Ln.M	60.0600	-	72,539.28	-	4,356,709.16
3.	Live Anchored 12 K 13 (M38)	Each	2.0000	896,280.00	27,720.00	1,792,560.00	55,440.00
4.	Coupler (M56)	Each	2.0000	5,335,000.00	165,000.00	10,670,000.00	330,000.00
5.	Duct ( sheath ) dia 65 mm (M44)	Ln.M	60.0600	38,400.00	1,200.00	2,306,304.00	72,072.00
6.	Stressing (L03) Spw	Point	4.0000	-	522,500.00	-	2,090,000.00
7.	Grouting (M46)	Ln.M	60.0600	-	12,650.00	-	759,759.00
<b>SUB TOTAL FOR MATERIALS</b>						21,762,637.33	7,709,722.82
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 16 ton (E39)	hour	0.6024	-	375,981.62	-	226,494.95
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	231,494.95
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					21,762,637.33	8,373,545.47
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	3,013,618.28
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					21,762,637.33	11,387,163.75
<b>G.</b>	<b>WORKING UNIT PRICE ( D/(M35) )</b>					39,012.52	20,413.06

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-729a Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.2.(9)a	WORKING
DESCRIPTION OF WORK	:	PC Strand Size 21.8 MM	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Kg	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	2.8800		6,394.59	-	18,416.42
2.	Skilled Labour (L03)	hour	0.4200		7,442.60	-	3,125.89
3.	Foreman (L04)	hour	0.4200		8,508.36	-	3,573.51
<b>SUB TOTAL OF LABOUR</b>						-	25,115.82
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	PC Strand Size 21.8 MM (M36)	Kg	32.2660	18,170.00	82.00	586,273.22	2,645.81
2.	Cable Instalation (L01) Spw	Ln.M	13.0000	-	42,314.58	-	550,089.54
3.	Live Anchored 1 T 22 (M40)	Each	2.0000	189,400.00	5,850.00	378,800.00	11,700.00
4.	Duct ( sheath ) dia 55 mm (M45)	M	13.0000	36,300.00	1,100.00	471,900.00	14,300.00
5.	Stressing (L04) Spw	Point	2.0000	-	330,000.00	-	660,000.00
6.	Grouting (M47)	Ln.M	13.0000	-	7,590.00	-	98,670.00
<b>SUB TOTAL FOR MATERIALS</b>						1,436,973.22	1,337,405.35
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 16 ton (E39)	hour	0.6024	-	375,981.62	-	226,494.95
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	231,494.95
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					1,436,973.22	1,594,016.12
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	303,098.93
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					1,436,973.22	1,897,115.05
<b>G.</b>	<b>WORKING UNIT PRICE ( D/(M36) )</b>					44,535.21	58,796.10

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-733 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 7.3.3	
DESCRIPTION OF WORK : PC Bar	
UNIT OF MEASUREMENT : Kg	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	8.0000		6,394.59	-	51,156.72
2.	Skilled Labour (L03)	hour	1.0000		7,442.60	-	7,442.60
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36
<b>SUB TOTAL OF LABOUR</b>						-	67,107.68
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	PC Bar (M37)	Kg	86.5800	18,170.00	82.00	1,573,158.60	7,099.56
2.	Live Anchored (M40)	Each	1.0000	189,400.00	5,850.00	189,400.00	5,850.00
3.	Dead Anchored (M54)	Each	1.0000	-	175,000.00	-	175,000.00
4.	Duct ( sheath ) dia 55 mm (M45)	M	13.0000	36,300.00	1,100.00	471,900.00	14,300.00
5.	Stressing (L04) Spw	Point	2.0000	-	330,000.00	-	660,000.00
6.	Grouting (M47)	Ln.M	13.0000	-	7,590.00	-	98,670.00
7.							
<b>SUB TOTAL FOR MATERIALS</b>						2,234,458.60	960,919.56
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 16 ton (E39)	hour	0.6024	-	375,981.62	-	226,494.95
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	231,494.95
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					2,234,458.60	1,259,522.19
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	349,398.08
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					2,234,458.60	1,608,920.27
<b>G.</b>	<b>WORKING UNIT PRICE ( D/(M37) )</b>					25,808.02	18,583.05

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SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-734 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.3 (4)	WORKING
DESCRIPTION OF WORK	:	Reinforcement Steel Bars Grade 40	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Kg	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	0.1400		6,394.59	-	895.24
2.	Skilled Labour (L03)	hour	0.0350		7,442.60	-	260.49
3.	Foreman (L04)	hour	0.0350		8,508.36	-	297.79
<b>SUB TOTAL FOR LABOUR</b>						-	1,453.52
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Reinforced Steel Bars Grade 4 (M14)	Kg	1.1000	-	6,087.94	-	6,696.73
2.	Binding wire (M17)	Kg	0.0200	-	14,700.00	-	294.00
<b>SUB TOTAL FOR MATERIALS</b>						-	6,990.73
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	9,444.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	944.43
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	10,388.68

**FABRICATED STEEL BOX GIRDER COST (MERAK)**

Nov. 6. 2006

Items	Unit	Quantity	Unit Cost			Cost			TOTAL	Remarks
			Foreign(1)	Foreigh(2)	Local	Foreign(1)	Foreign(2)	Local		
(A) Direct Cost										(Yen/ton)
(1) Material Cost	ton	432.866	9,724,502			4,209,406,418		0	4,209,406,418	129,660
(2) Fabrication Cost	ton	432.866	1,180,354	2,009,368	0	510,934,971	869,787,167	0	1,380,722,138	42,530
(3) Painting Cost	ton	432.866	2,549,978	797,394	0	1,103,798,850	345,164,625	0	1,448,963,475	44,632
(4) Transportation Cost	ton	432.866	0	0	426,630	0	0	184,673,433	184,673,433	5,688
Sub Total (A)						5,824,140,240	1,214,951,792	184,673,433	7,223,765,465	(Yen/ton)
										<b>222,510</b>
(B) Factory Operation Cost										
(5) Operation Cost - (1)		(2)x38%				194,155,289	330,519,124	0	524,674,413	
(6) Operation Cost - (2)		{(2)+(5)}x28.8%				203,065,995	345,688,212	0	548,754,207	(Yen/ton)
Sub Total (B)						397,221,284	676,207,335	0	1,073,428,619	<b>33,064</b>
TOTAL (A)+(B)						6,221,361,524	1,891,159,127	184,673,433	8,297,194,084	
OVERHEAD & PROFIT ( 10% )								829,719,408	829,719,408	
TOTAL						6,221,361,524	1,891,159,127	1,014,392,842	9,126,913,493	
UNIT PRICE	Rp/ton					14,372,488	4,368,925	2,343,434		(Yen/ton)
						<b>18,741,413</b>	<b>2,343,434</b>		<b>21,084,847</b>	<b>281,131</b>

(NOTE) COST ESTIMATION IS BASED ON STEEL BRIDGES COST ESTIMATION STANDARD OF JAPAN CONSTRUCTION COST INVESTIGATION ASSOCIATION  
MINISTRY OF LAND AND TRANSPORTATION OF JAPAN.

**FABRICATION COST (MERAH)**

Nov. 6. 2006

Items	Unit	Quantity	Unit Cost		Cost		TOTAL	Remarks	
			Foreign	Local	Foreign	Local			
<b>FABRICATION COST</b>									
(1)	(Labour Cost)								
	JPN Supervisor	m.d	142	3,600,000		510,934,971	0	48,000Yenx75Rp/day	
	Foreman	m.d	284		66,310.17	0	18,822,325		
	Fabricator	m.d	7,008.5		58,613.56	0	410,794,793		
	Common Labour	m.d	1,419		43,220.35	0	61,341,079		
	Sub Total (1)					510,934,971	490,958,197	1,001,893,168	
(2)	(Machinery Cost)								
	Track Crane 100t	hour	189		1,315,694.10	0	248,975,603	Outside Factory	
	Trailer Truck 40t	hour	189		686,201.01	0	129,853,368	Outside Factory	
		Sub Total					0	378,828,971	378,828,971 (Other Equipments to be included in Factory Operation)
	Total					510,934,971	869,787,167	1,380,722,138	
								18,409,629 (Yen)	
								(Yen/ton)	
	<b>Unit Cost</b>	<b>(Rp/ton)</b>				<b>1,180,354</b>	<b>2,009,368</b>	<b>3,189,722</b>	<b>42,530</b>
<b>PAINTING COST</b>									
	Blasting	sq.m	3,540.15		37,500	0	132,755,625	132,755,625	
	Tar-Epoxy Painting	sq.m	3,540.15		60,000	0	212,409,000		
	Zn-Al Spray Painting	sq.m	1,911.34	577,500		1,103,798,850	0		
	Total					1,103,798,850	345,164,625	1,448,963,475	
								(Yen/ton)	
	<b>Unit Cost</b>	<b>(Rp/ton)</b>				<b>2,549,978</b>	<b>797,394</b>	<b>3,347,372</b>	<b>44,632</b>
<b>TRANSPORTATION COST (Factory ~ Site)</b>									
	Trailer Truck 50t	trip	18		2,000,000	0	36,000,000		
	Track Crane 100t	hour	113		1,315,694.10	0	148673433.3	3 days x 8hour x 2nos	
	Total					0	184,673,433	184,673,433	
								2,462,312 (Yen/ton)	
	<b>Unit Cost</b>	<b>(Rp/ton)</b>				<b>0</b>	<b>426,630</b>	<b>426,630</b>	<b>5,688</b>





### STEEL BOX GIRDER MATERIAL COST

**Tble-2 (MERAk)**

(Unit: Yen)

Quality of Material	Classification Thickness	Used Thickness	Quantity (ton)	Unit Cost from Table-1	Cost (Yen)	Remarks
SMA 490CW-H	38 < t □ 50			133,875	0	
SMA 490BW	25 < t □ 38			118,475	0	
	6 < t 25			112,975	0	
SMA 490AW	6 < t 50			110,775	0	
SM 490YB	25 < t □ 38	38,36,32,31,30,29,28,27	67.454	104,725	7,064,120	
	t 25	25,24,23,22,21,20,19,18,17	174.927	99,225	17,357,132	
SM 490YA	t 25	16,15,14,13,12 11,10,9	157.333	97,025	15,265,234	
SMA 400BW	25 < t 38	32,33,34,35		111,325	0	
SMA 400AW	6 < t 28	6,9,10,12 13,18,22,24		105,825	0	
SM490B	38 < t 50	39	0.506	108,025	54,661	
	25 < t 38	32,31	0.311	103,625	32,227	
SM490A	t 25	16	0.011	94,825	1,043	
SM 400A	t 38	38,30,24,20,16,14 13,12,11,10,9,6	30.003	86,575	2,597,510	
SS 400		19,18,16,15,13,12 10,9,7,6,4,5,3,2,2,3	2.321	84,155	195,324	
SPA-H				110,775	0	
SMA400AW	H-700x300x13x24			100,363	0	
TCB	BOLT	(pcs)	18,134	122.5	2,221,415	
Miscellaneous	5% of Above				2,239,433	(Yen/ton)
<b>Material Cost</b>			432.866		47,028,099	108,644
<b>Unit Cost (Rp/ton)</b>						<b>8,148,266</b>
<b>Freight(Japan~Jakarta)</b>			432.866	20,000	8,657,320	
						(Yen/ton)
Sub Total					55,685,419	128,644
<b>Transportation Cost(Port~Factory)</b>			(Trip)	(Rp)	(Rp)	
Trailler Truck 20t			22.0	1,500,000	33,000,000	
				(Yen)	(Yen)	
			22.0	20,000	440,000	
						(Yen/ton)
<b>Total</b>			<b>432.866</b>		<b>56,125,419</b>	<b>129,660</b>
						(Rp/ton)
<b>Unit Cost (Rp/ton)</b>						<b>9,724,502</b>

**STEEL BOX GIRDER MATERIAL COST**

Tble-1 (From Index Book Aug. 2006)

(Unit; Yen/ton)

Quality of Material	Classification Thickness	Used Thickness	Base Cost	Standard Extra	Dimension Extra	Special Extra	Sub Total	Ratio of Loss	Total	Scrap Unit Cost	Unit Cost of Steel
SMA 490CW-H	38 < t □ 50	44	75,000	40,500	5,000	2,000	122,500	10%	134,750	12,500	133,875
SMA 490CW	50 < t □ 100	58,56,54,52	75,000	40,500	6,000		121,500	10%	133,650	12,500	132,775
	38 < t □ 50	50,46,42	75,000	37,500	5,000		117,500	10%	129,250	12,500	128,375
SMA 490BW	38 < t □ 50	40	75,000	34,500	3,000		112,500	10%	123,750	12,500	122,875
	25 < t □ 38	38,36,32,31,30,28,27	75,000	31,500	2,000		108,500	10%	119,350	12,500	118,475
	6 < t 25	25,24,23,22,21,20,19,18,17	75,000	28,500	0		103,500	10%	113,850	12,500	112,975
SMA 490AW	6 < t 50	16,15,14,13,12,11,10,9	75,000	25,500	1,000		101,500	10%	111,650	12,500	110,775
SM 520C-H	38 < t □ 50	45	75,000	26,000	4,000	2,000	107,000	10%	117,700	12,500	116,825
SM 490YB	25 < t □ 38	40,38,36,32,31,30,29,28,27,26	75,000	19,000	2,000		96,000	10%	105,600	12,500	104,725
	t 25	25,24,23,22,21,20,19,18,17	75,000	16,000	0		91,000	10%	100,100	12,500	99,225
SM 490YA	t 25	16,15,14,13,12,11,10,9	75,000	13,000	1,000		89,000	10%	97,900	12,500	97,025
SM490A	t 50	16	75,000	12,000	0		87,000	10%	95,700	12,500	94,825
SM 490C	50 < t □ 100	58,56,54	75,000	27,000	6,000		108,000	10%	118,800	12,500	117,925
	38 < t □ 50	42	75,000	24,000	4,000		103,000	10%	113,300	12,500	112,425
SM490C-H	38 < t □ 50	44	75,000	24,000	4,000	2000	105,000	10%	115,500	12,500	114,625
SM490B	38 < t □ 50	40	75,000	21,000	3,000		99,000	10%	108,900	12,500	108,025
	25 < t □ 38	31,30	75,000	18,000	2,000		95,000	10%	104,500	12,500	103,625
SMA 400BW	25 < t 38		75,000	25,000	2,000		102,000	10%	112,200	12,500	111,325
SMA 400AW	6 t 28	24,22,19,16,15,14,13,12,11,10,9,8,6	75,000	21,000	1,000		97,000	10%	106,700	12,500	105,825
	t < 6	3.2	75,000	21,000	3,000		99,000	10%	108,900	12,500	108,025
SM 400A	t 38	24,22,19,16,15,14,13,12,11,10,9,8,6,3,2	75,000	3,500	1,000		79,500	10%	87,450	12,500	86,575
SS 400		19,17,16,15,13,12,11,10,9,8,6,3,2	75,000	1,300	1,000		77,300	10%	85,030	12,500	84,155
SPA-H	1.6 t 16	3.2	75,000	23,500	3,000		101,500	10%	111,650	12,500	110,775
SMA 400AW H	H-700x300x13x24		75,000	21,000			96,000	5%	100,800	12,500	100,363
SS 400	H-700x300x13x24		75,000	1,300			76,300	5%	80,115	12,500	79,678
	TCB M22									(pcs)	122.5

Sep. 4. 2006

**FABRICATED STEEL COPING & PORTAL COST (MERAK)**

Nov. 7. 2006

Items	Unit	Quantity	Unit Cost			Cost			TOTAL	Remarks
			Foreign(1)	Foreigh(2)	Local	Foreign(1)	Foreign(2)	Local		
(A) Direct Cost										(Yen/ton)
(1) Material Cost	ton	144.49	9,724,502			1,405,093,339		0	1,405,093,339	129,660
(2) Fabrication Cost	ton	144.49	1,416,424	2,411,247	0	204,659,162	348,401,012	0	553,060,174	51,036
(3) Painting Cost	ton	144.49	2,549,978	797,394	0	368,446,346	115,215,417	0	483,661,763	44,632
(4) Transportation Cost	ton	144.49	0	0	426,630	0	0	61,643,706	61,643,706	5,688
Sub Total (A)						1,978,198,847	463,616,429	61,643,706	2,503,458,982	<b>(Yen/ton)</b>
										<b>231,016</b>
(B) Factory Operation Cost										
(5) Operation Cost - (1)		(2)x38%				77,770,482	132,392,385	0	210,162,866	
(6) Operation Cost - (2)		{(2)+(5)}x28.8%				81,339,737	138,468,498	0	219,808,236	<b>(Yen/ton)</b>
Sub Total (B)						159,110,219	270,860,883	0	429,971,102	<b>39,677</b>
TOTAL (A)+(B)						2,137,309,066	734,477,312	61,643,706	2,933,430,084	
OVERHEAD & PROFIT ( 10% )								293,343,008	293,343,008	
TOTAL						2,137,309,066	734,477,312	354,986,714	3,226,773,092	
<b>UNIT PRICE</b>	<b>Rp/ton</b>					14,792,090	5,083,240	2,456,825		<b>(Yen/ton)</b>
						<b>19,875,330</b>		<b>2,456,825</b>	<b>22,332,155</b>	<b>297,762</b>

(NOTE) COST ESTIMATION IS BASED ON STEEL BRIDGES COST ESTIMATION STANDARD OF JAPAN CONSTRUCTION COST INVESTIGATION ASSOCIATION  
MINISTRY OF LAND AND TRANSPORTATION OF JAPAN.

**FABRICATION COST (MERAK)**

Nov. 7. 2006

Items	Unit	Quantity	Unit Cost		Cost		TOTAL	Remarks	
			Foreign	Local	Foreign	Local			
<b>FABRICATION COST</b>									
(1)	(Labour Cost)								
	JPN Supervisor	m.d	142	3,600,000		510,934,971	0	48,000Yenx75Rp/day	
	Foreman	m.d	284		66,310.17	0	18,822,325		
	Fabricator	m.d	7,008.5		58,613.56	0	410,794,793		
	Common Labour	m.d	1,419		43,220.35	0	61,341,079		
	Sub Total (1)					510,934,971	490,958,197	1,001,893,168	
(2)	(Machinery Cost)								
	Track Crane 100t	hour	189		1,315,694.10	0	248,975,603	Outside Factory	
	Trailer Truck 40t	hour	189		686,210.01	0	129,855,071	Outside Factory	
		Sub Total					0	378,830,674	(Other Equipments to be included in Factory Operation)
	Total					510,934,971	869,788,870	1,380,723,842	
								(Yen)	
								18,409,651	
								(Yen/ton)	
	Unit Cost for Steel Box	(Rp/ton)				1,180,354	2,009,372	3,189,726	42,530
	<b>Unit Cost for Coping &amp; Portal</b>	<b>(Rp/ton)</b>				<b>1,416,424</b>	<b>2,411,247</b>	<b>3,827,671</b>	<b>51,036</b>
<b>PAINTING COST</b>									
	Blasting	sq.m	3,540.15		37,500	0	132,755,625	132,755,625	
	Tar-Epoxy Painting	sq.m	3,540.15		60,000	0	212,409,000		
	Zn-Al Spray Painting	sq.m	1,911.34	577,500		1,103,798,850	0		
	Total					1,103,798,850	345,164,625	1,448,963,475	(Yen/ton)
	<b>Unit Cost</b>	<b>(Rp/ton)</b>				<b>2,549,978</b>	<b>797,394</b>	<b>3,347,372</b>	<b>44,632</b>
<b>TRANSPORTATION COST (Factory ~ Site)</b>									
	Trailer Truck 50t	trip	18		2,000,000	0	36,000,000		
	Track Crane 100t	hour	113		1,315,694.10	0	148673433.3	3 days x 8hour x 2nos	
	Total					0	184,673,433	2,462,312	
								(Yen/ton)	
	<b>Unit Cost</b>	<b>(Rp/ton)</b>				<b>0</b>	<b>426,630</b>	<b>426,630</b>	<b>5,688</b>

(Note) Steel Box Girder Quantities are used for Unit Cost Estimation of Steel Coping & Portal Fabrication

**MANDAY FOR FABRICATION OF STEEL COPING & PORTAL**

Nov. 7. 2006

	MARAK	BALARAJA	NAGREG	GEBANG	PETERONGAN	TANGGULANGIN
<b>APPLIED TOTAL MAN DAY Y'=Y*2.5 (ASIA INDEX=2.5)</b>						
<b>Y'</b>	<b>7,008.5</b>	<b>2,965.0</b>	<b>3,366.4</b>	<b>6,723.1</b>	<b>2,974.4</b>	<b>3,378.0</b>
<b>TOTAL MAN DAYS <math>Y=\{(Y1+Y2)*K+Y3+Y4\}*(1+\alpha)*(1+\beta)*(1+\gamma)*(1+\delta)+Y5</math></b>						
<b>Y (MAN DAYS)</b>	<b>2,803.4</b>	<b>1,186.0</b>	<b>1,346.6</b>	<b>2,689.3</b>	<b>1,189.7</b>	<b>1,351.2</b>
Y1	1675.4	690.2	769.7	1,531.4	692.8	779.2
Y2	94.4	48.0	66.3	139.3	47.3	62.8
K	1.0	1.0	1.0	1.0	1.0	1.0
Y3	126.2	64.0	74.7	148.2	64.6	71.8
Y4	0	0	0	0	0	0
Y5	0	0	0	0	0	0
$\alpha$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
$\beta$	0.25	0.25	0.25	0.25	0.25	0.25
$\gamma$	0.11	0.11	0.11	0.11	0.11	0.11
$\delta$	0.11	0.11	0.11	0.11	0.11	0.11
<b>MAN DAY FOR BOX GIRDER <math>Y1=A1*a1*K1+A2*a2*K2</math></b>						
<b>Y1</b>	<b>1,675.4</b>	<b>690.2</b>	<b>769.7</b>	<b>1,531.4</b>	<b>692.8</b>	<b>779.2</b>
<b>A1</b>	<b>189</b>	<b>147</b>	<b>176</b>	<b>395</b>	<b>147</b>	<b>162</b>
<b>A2</b>	<b>2,361</b>	<b>1,248</b>	<b>1,426</b>	<b>2,879</b>	<b>1,245</b>	<b>1,433</b>
<b>a1</b>	<b>2.25</b>	<b>2.25</b>	<b>2.25</b>	<b>2.25</b>	<b>2.25</b>	<b>2.25</b>
<b>a2</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>
<b>K1</b>	<b>1.20</b>	<b>0.84</b>	<b>0.84</b>	<b>0.77</b>	<b>0.86</b>	<b>0.85</b>
<b>K2</b>	<b>1.59</b>	<b>1.07</b>	<b>0.98</b>	<b>0.95</b>	<b>1.06</b>	<b>1.06</b>
<b>X1</b>	<b>1.30</b>	<b>0.76</b>	<b>0.77</b>	<b>0.66</b>	<b>0.78</b>	<b>0.77</b>
<b>X2</b>	<b>1.69</b>	<b>1.08</b>	<b>0.98</b>	<b>0.94</b>	<b>1.07</b>	<b>1.07</b>
<b>W1</b>	<b>302,789</b>	<b>138,071</b>	<b>167,015</b>	<b>321,404</b>	<b>142,447</b>	<b>155,054</b>
<b>W2</b>	<b>134,373</b>	<b>45,297</b>	<b>47,189</b>	<b>91,122</b>	<b>44,966</b>	<b>51,511</b>
<b>MAN DAY FOR WELDING <math>Y2=B1*b1/10+B2*b2/10</math></b>						
<b>Y2</b>	<b>94.4</b>	<b>48.0</b>	<b>66.3</b>	<b>139.3</b>	<b>47.3</b>	<b>62.8</b>
<b>B1</b>	<b>67.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.000</b>	<b>0.00</b>
<b>B2</b>	<b>2393.14</b>	<b>1,297.82</b>	<b>1,791.25</b>	<b>3,763.56</b>	<b>1,277.62</b>	<b>1,698.43</b>
<b>b1</b>	<b>0.87</b>	<b>0.87</b>	<b>0.87</b>	<b>0.87</b>	<b>0.87</b>	<b>0.87</b>
<b>b2</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>
<b>FACTOR for SMA570 <math>K=1+Wo*K3</math></b>						
<b>K</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Wo</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>K3</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>
<b>MAN DAY FOR ASSEMBLY IN FACTORY <math>Y3=C*c*K4*(1+\epsilon)</math></b>						
<b>Y3</b>	<b>126.2</b>	<b>64.0</b>	<b>74.7</b>	<b>148.2</b>	<b>64.6</b>	<b>71.8</b>
<b>C</b>	<b>49</b>	<b>53</b>	<b>62</b>	<b>132</b>	<b>52</b>	<b>59</b>
<b>c</b>	<b>3.09</b>	<b>3.09</b>	<b>3.09</b>	<b>3.09</b>	<b>3.09</b>	<b>3.09</b>
$K4=0.82*X+0.18$	<b>1.37</b>	<b>0.64</b>	<b>0.64</b>	<b>0.60</b>	<b>0.66</b>	<b>0.65</b>
$X=W/N/w$	<b>1.45</b>	<b>0.56</b>	<b>0.56</b>	<b>0.51</b>	<b>0.58</b>	<b>0.57</b>
<b>W</b>	<b>437,162</b>	<b>183,368</b>	<b>214,204</b>	<b>412,526</b>	<b>187,413</b>	<b>206,565</b>
<b>N</b>	<b>49</b>	<b>53</b>	<b>62</b>	<b>132</b>	<b>52</b>	<b>59</b>
$\epsilon$	<b>-0.39</b>	<b>-0.39</b>	<b>-0.39</b>	<b>-0.39</b>	<b>-0.39</b>	<b>-0.39</b>
<b>MAN DAY FOR DIAPHRAGM <math>Y4=(C1*c1*K5)+(C2*c2*K5)</math></b>						
<b>Y4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>C1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>c1</b>						
<b>C2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>c2</b>						
<b>K5</b>						
<b>MAN DAY FOR ACCESSORIES Y5</b>						
<b>Y5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

(Note) Steel Box Girder Quantities are used for Mandays Estimation

**STEEL COPING & PORTAL MATERIAL COST**

**Tble-2 (MERAk)**

(Unit: Yen)

Quality of Material	Classification Thickness	Used Thickness	Quantity (ton)	Unit Cost from Table-1	Cost (Yen)	Remarks
SMA 490CW-H	38 < t □ 50			133,875	0	
SMA 490BW	25 < t □ 38			118,475	0	
	6 < t 25			112,975	0	
SMA 490AW	6 < t 50			110,775	0	
SM 490YB	25 < t □ 38	38,36,32,31,30,29,28,27	67.454	104,725	7,064,120	
	t 25	25,24,23,22,21,20,19,18,17	174.927	99,225	17,357,132	
SM 490YA	t 25	16,15,14,13,12	157.333	97,025	15,265,234	
		11,10,9				
SMA 400BW	25 < t 38	32,33,34,35		111,325	0	
SMA 400AW	6 < t 28	6,9,10,12		105,825	0	
		13,18,22,24				
SM490B	38 < t 50	39	0.506	108,025	54,661	
	25 < t 38	32,31	0.311	103,625	32,227	
SM490A	t 25	16	0.011	94,825	1,043	
SM 400A	t 38	38,30,24,20,16,14	30.003	86,575	2,597,510	
		13,12,11,10,9,6				
SS 400		19,18,16,15,13,12	2.321	84,155	195,324	
		10,9,7,6,4,5,3,2,2,3				
SPA-H				110,775	0	
SMA400AW	H-700x300x13x24			100,363	0	
TCB	BOLT	(pcs)	18,134	122.5	2,221,415	
Miscellaneous	5% of Above				2,239,433	(Yen/ton)
<b>Material Cost</b>			432.866		47,028,099	108,644
<b>Unit Cost (Rp/ton)</b>						<b>8,148,266</b>
<b>Freight(Japan~Jakarta)</b>			432.866	20,000	8,657,320	
						(Yen/ton)
Sub Total					55,685,419	128,644
<b>Transportation Cost(Port~Factory)</b>			(Trip)	(Rp)	(Rp)	
Trailer Truck 20t			22.0	1,500,000	33,000,000	
				(Yen)	(Yen)	
			22.0	20,000	440,000	
						(Yen/ton)
<b>Total</b>			<b>432.866</b>		<b>56,125,419</b>	<b>129,660</b>
<b>Unit Cost (Rp/ton)</b>						<b>9,724,502</b>

(Note) Steel Box Girder Quantities are used for Steel Coping & Portal Material Cost Estimation

**STEEL COPING & PORTAL MATERIAL COST**

Tble-1 (From Index Book Aug. 2006)

(Unit; Yen/ton)

Quality of Material	Classification Thickness	Used Thickness	Base Cost	Standard Extra	Dimension Extra	Special Extra	Sub Total	Ratio of Loss	Total	Scrap Unit Cost	Unit Cost of Steel
SMA 490CW-H	38 < t □ 50	44	75,000	40,500	5,000	2,000	122,500	10%	134,750	12,500	133,875
SMA 490CW	50 < t □ 100	58,56,54,52	75,000	40,500	6,000		121,500	10%	133,650	12,500	132,775
	38 < t □ 50	50,46,42	75,000	37,500	5,000		117,500	10%	129,250	12,500	128,375
SMA 490BW	38 < t □ 50	40	75,000	34,500	3,000		112,500	10%	123,750	12,500	122,875
	25 < t □ 38	38,36,32,31,30,28,27	75,000	31,500	2,000		108,500	10%	119,350	12,500	118,475
	6 < t 25	25,24,23,22,21,20,19,18,17	75,000	28,500	0		103,500	10%	113,850	12,500	112,975
SMA 490AW	6 < t 50	16,15,14,13,12,11,10,9	75,000	25,500	1,000		101,500	10%	111,650	12,500	110,775
SM 520C-H	38 < t □ 50	45	75,000	26,000	4,000	2,000	107,000	10%	117,700	12,500	116,825
SM 490YB	25 < t □ 38	40,38,36,32,31,30,29,28,27,26	75,000	19,000	2,000		96,000	10%	105,600	12,500	104,725
	t 25	25,24,23,22,21,20,19,18,17	75,000	16,000	0		91,000	10%	100,100	12,500	99,225
SM 490YA	t 25	16,15,14,13,12,11,10,9	75,000	13,000	1,000		89,000	10%	97,900	12,500	97,025
SM490A	t 50	16	75,000	12,000	0		87,000	10%	95,700	12,500	94,825
SM 490C	50 < t □ 100	58,56,54	75,000	27,000	6,000		108,000	10%	118,800	12,500	117,925
	38 < t □ 50	42	75,000	24,000	4,000		103,000	10%	113,300	12,500	112,425
SM490C-H	38 < t □ 50	44	75,000	24,000	4,000	2000	105,000	10%	115,500	12,500	114,625
SM490B	38 < t □ 50	40	75,000	21,000	3,000		99,000	10%	108,900	12,500	108,025
	25 < t □ 38	31,30	75,000	18,000	2,000		95,000	10%	104,500	12,500	103,625
SMA 400BW	25 < t 38		75,000	25,000	2,000		102,000	10%	112,200	12,500	111,325
SMA 400AW	6 t 28	24,22,19,16,15,14,13,12,11,10,9,8,6	75,000	21,000	1,000		97,000	10%	106,700	12,500	105,825
	t < 6	3.2	75,000	21,000	3,000		99,000	10%	108,900	12,500	108,025
SM 400A	t 38	24,22,19,16,15,14,13,12,11,10,9,8,6,3,2	75,000	3,500	1,000		79,500	10%	87,450	12,500	86,575
SS 400		19,17,16,15,13,12,11,10,9,8,6,3,2	75,000	1,300	1,000		77,300	10%	85,030	12,500	84,155
SPA-H	1.6 t 16	3.2	75,000	23,500	3,000		101,500	10%	111,650	12,500	110,775
SMA 400AW H	H-700x300x13x24		75,000	21,000			96,000	5%	100,800	12,500	100,363
SS 400	H-700x300x13x24		75,000	1,300			76,300	5%	80,115	12,500	79,678
	TCB M22									(pcs)	122.5

Nov. 7. 2006



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-753 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.5 (3)	
DESCRIPTION OF WORK	:	Erection of Steel Girder	
UNIT OF MEASUREMENT	:	Ton	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	81.3253		6,394.5900	-	520,041.96
2.	Skilled Labour (L03)	hour	21.6867		7,442.6000	-	161,405.78
3.	Foreman (L04)	hour	5.4217		8,508.3600	-	46,129.66
4.	Japanese Supervisor	hour	5.4217	0.00	450,000.00	-	2,439,759.04
<b>SUB TOTAL OF LABOUR</b>						-	3,167,336.44
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crawler Crane 100 T (E47)	hour	5.4217	-	1,363,629.71	-	7,393,173.13
2.	Trailer Truck & Bogie (E32)	hour	3.2667	-	520,181.72	-	1,699,260.29
3.	Tools	Ls	1.0000		658,975.00	-	658,975.00
3.	Temporary Support	Ls	1.00		23,862,548.00	-	23,862,548.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	33,613,956.42
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	36,781,292.86
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	3,678,129.29
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	40,459,422.15
<b>G.</b>	<b>WORKING UNIT PRICE ( F/q1 )</b>					-	1,534,937.67

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-SS754 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.5 (4)	WORKING
DESCRIPTION OF WORK	:	Erection of Steel Coping & Portal	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ton	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	162.6506		6,394.59	-	1,040,083.92
2.	Skilled Labour (L03)	hour	43.3735		7,442.60	-	322,811.57
3.	Foreman (L04)	hour	10.8434		8,508.36	-	92,259.33
4.	Japanese Supervisor	hour	10.8434	0.00	450,000.00	-	4,879,518.07
<b>SUB TOTAL OF LABOUR</b>						-	6,334,672.89
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crawler Crane 100 T (E47)	hour	10.8434	-	1,363,629.71	-	14,786,346.25
2.	Trailer Truck & Bogie (E32)	hour	6.9167	-	520,181.72	-	3,597,923.56
3.	Tools	Ls	1.0000		2,074,775.00	-	2,074,775.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	20,459,044.81
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	26,793,717.70
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	2,679,371.77
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	29,473,089.47
<b>G.</b>	<b>WORKING UNIT PRICE ( F/q1 )</b>					-	355,135.97

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-7622 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.6.(22)	WORKING :
DESCRIPTION OF WORK	:	Concrete Bored Pile Dia 1500 mm	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Ln. M	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	253.0120		6,394.59	-	1,617,908.31
2.	Skilled Labour (L03)	hour	63.2530		7,442.60	-	470,766.87
3.	Foreman (L04)	hour	21.0843		8,508.36	-	179,393.13
<b>SUB TOTAL OF LABOUR</b>						-	2,268,068.31
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Structure Concrete Class B (E1712d)	Cu.M	57.2555	-	576,390.83	-	33,001,560.22
2	Deformed Reinforced Steel SD <sub>4</sub> (E1734)	Kg	3,032.0000	-	9,444.25	-	28,634,966.00
3	Deformed Reinforced Steel SD <sub>3</sub> (E1736)	Kg	9,760.0000	7,590.00	2,802.52	74,078,400.00	27,352,595.20
4	Splicing (M95)	set	28.0000	320,250.00	1,000.00	8,967,000.00	28,000.00
<b>SUB TOTAL FOR MATERIALS</b>						83,045,400.00	89,017,121.42
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1	Bore Pile Machine Dia 1500 (E35)	hour	21.0843	-	703,206.46	-	14,826,642.23
2	Concr. Pump (E08)	hour	3.4491	-	334,062.30	-	1,152,223.66
3	Crane cap 16 ton (E39)	hour	1.5000	-	375,981.62	-	563,972.43
4	Excavator (E12)	hour	3.1236	-	340,755.29	-	1,064,385.11
5	Dump Truck 6 T (E37)	hour	8.5462	-	198,128.75	-	1,693,244.90
6	Tools	Ls	1.0000	-	50,000.00	-	50,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	19,350,468.33
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					83,045,400.00	110,635,658.06
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.0 % x D			-	19,368,105.81
<b>F.</b>	<b>UNIT PRICE (D+E)</b>					83,045,400.00	130,003,763.87
<b>G.</b>	<b>WORKING UNIT PRICE ( F/p )</b>					2,768,180.00	4,333,458.80

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-7623 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.6.(23)	WORKING
DESCRIPTION OF WORK	:	Concrete Bored Pile Dia 1800 mm	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	349.3976		6,394.59	-	2,234,254.34	
2.	Skilled Labour (L03)	hour	87.3494		7,442.60	-	650,106.63	
3.	Foreman (L04)	hour	29.1165		8,508.36	-	247,733.37	
<b>SUB TOTAL OF LABOUR</b>						-	3,132,094.34	
<b>B. MATERIALS</b>								
1	Structure Concrete Class B (EI712d)	Cu.M	82.4480	-	576,390.83	-	47,522,246.71	
2	Deformed Reinforced Steel SD <sub>4</sub> (EI734)	Kg	18,263.0000	-	9,444.25	-	172,480,337.75	
<b>SUB TOTAL FOR MATERIALS</b>						-	220,002,584.46	
<b>C. EQUIPMENT</b>								
1	Bore Pile Machine Dia 1800 (E36)	hour	29.1165	-	911,852.31	-	26,549,916.66	
2	Concr. Pump (E08)	hour	4.9667	-	334,062.30	-	1,659,202.07	
3	Crane cap 50 ton (E40)	hour	1.5000	-	904,452.14	-	1,356,678.21	
4	Excavator (E12)	hour	3.5270	-	340,755.29	-	1,201,842.84	
5	Dump Truck 6 T (E37)	hour	9.6499	-	198,128.75	-	1,911,915.38	
6	Tools	Ls	1.0000		50,000.00	-	50,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	32,729,555.16	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	<b>255,864,233.96</b>
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.0 % x D		-	<b>25,586,423.40</b>	
<b>F.</b>	<b>UNIT PRICE (D+E)</b>						-	<b>281,450,657.36</b>
<b>G.</b>	<b>WORKING UNIT PRICE ( F/p )</b>						-	<b>9,381,688.58</b>

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-7626 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.6.(26)	WORKING
DESCRIPTION OF WORK	:	Concrete Bored Pile Dia 2500 mm	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln. M	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	325.3012		6,394.59	-	2,080,167.83
2.	Skilled Labour (L03)	hour	81.3253		7,442.60	-	605,271.69
3.	Foreman (L04)	hour	27.1084		8,508.36	-	230,648.31
<b>SUB TOTAL OF LABOUR</b>						-	2,916,087.83
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Structure Concrete Class B (EI712d)	Cu.M	143.1388	-	576,390.83	-	82,503,900.54
2	Deformed Reinforced Steel SD <sup>4</sup> (EI734)	Kg	10,919.6361	-	9,444.25	-	103,127,773.26
3	Deformed Reinforced Steel SD <sup>3</sup> (EI736)	Kg	28,199.6720	7,590.00	2,802.52	214,035,510.25	79,030,144.69
4	Splicing (M95)	set	106.0000	320,250.00	1,000.00	33,946,500.00	106,000.00
<b>SUB TOTAL FOR MATERIALS</b>						247,982,010.25	264,767,818.49
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1	Bore Pile Machine Dia 2500 (E36)	hour	27.1084	-	911,852.31	-	24,718,887.92
2	Concr. Pump (E08)	hour	8.6228	-	334,062.30	-	2,880,559.15
3	Crane cap 50 ton (E40)	hour	2.0000	-	904,452.14	-	1,808,904.28
4	Excavator (E12)	hour	4.5515	-	340,755.29	-	1,550,961.16
5	Dump Truck 6 T (E37)	hour	12.4530	-	198,128.75	-	2,467,299.71
6	Tools	Ls	1.0000		50,000.00	-	50,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	33,476,612.22
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					247,982,010.25	301,160,518.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	54,914,252.88
<b>F.</b>	<b>UNIT PRICE (D+E)</b>					247,982,010.25	356,074,771.42
<b>G.</b>	<b>WORKING UNIT PRICE ( F/p )</b>					9,184,518.90	13,187,954.50

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

EI-7627 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	7.6 (27)	WORKING
DESCRIPTION OF WORK	:	Pile Integrity Test	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT
			COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	10.0000		6,394.59	-	63,945.90
2.	Skilled Labour (L03)	hour	3.0000		7,442.60	-	22,327.80
3	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36
<b>SUB TOTAL OF LABOUR</b>						-	94,782.06
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Computer Test	hour	1.0000		1,100,000.00	-	1,100,000.00
2.	Tools	Ls	1.0000		50,000.00	-	50,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,150,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,244,782.06
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	124,478.21
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	1,369,260.27

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-SS628 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	SS7.6 (28)	ESTIMATE QUANTITY OF WORKING :
DESCRIPTION OF WORK	:	Pile Dynamic Analysis dia 1500 mm, L = 40 m	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	12.0000		6,394.59	-	76,735.08	
2.	Skilled Labour (L03)	hour	3.0000		7,442.60	-	22,327.80	
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36	
<b>SUB TOTAL OF LABOUR</b>						-	107,571.24	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Hammer Test	LS	1.0000	-	10,000,000.00	-	10,000,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	10,000,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Crane cap 100 ton (E41)	hour	2.4096	-	1,315,305.09	-	3,169,409.86	
2.	Computer test	ls	1.0000	-	5,000,000.00	-	5,000,000.00	
3.	Trailer Truck 40 Ton (E51)	hour	1.8346	-	685,812.00	-	1,258,168.19	
4.	Tools	ls	1.0000		100,000.00	-	100,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	9,527,578.05	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	19,635,149.29
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	1,963,514.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	21,598,664.22

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7629a Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	SS7.6 (29)a	ESTIMATE QUANTITY OF WORKING :
DESCRIPTION OF WORK	:	Pile Dynamic Analysis dia 1800 mm, L = 45 m	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	12.0000		6,394.59	-	76,735.08	
2.	Skilled Labour (L03)	hour	3.0000		7,442.60	-	22,327.80	
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36	
<b>SUB TOTAL OF LABOUR</b>						-	107,571.24	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Hammer Test	LS	1.0000	-	12,500,000.00	-	12,500,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	12,500,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Crane cap 100 ton (E41)	hour	2.4096	-	1,315,305.09	-	3,169,409.86	
2.	Computer test	ls	1.0000	-	5,000,000.00	-	5,000,000.00	
3.	Trailer Truck 40 Ton (E51)	hour	1.8346	-	685,812.00	-	1,258,168.19	
4.	Tools	ls	1.0000		100,000.00	-	100,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	9,527,578.05	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	22,135,149.29
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	2,213,514.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	24,348,664.22



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-SS7629b Analysis

PROJECT	:	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:	WORKING
PACKAGE NAME	:	TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:	% TO PROJECT COST
NO OF PAYMENT ITEM	: SS7.6 (29)b	:
DESCRIPTION OF WORK	: Pile Dynamic Analysis dia 2500 mm, L = 50 m	:
UNIT OF MEASUREMENT	: Each	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	12.0000		6,394.59	-	76,735.08
2.	Skilled Labour (L03)	hour	3.0000		7,442.60	-	22,327.80
3.	Foreman (L04)	hour	1.0000		8,508.36	-	8,508.36
<b>SUB TOTAL OF LABOUR</b>						-	107,571.24
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Hammer Test	LS	1.0000	-	15,000,000.00	-	15,000,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	15,000,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Crane cap 100 ton (E41)	hour	2.4096	-	1,315,305.09	-	3,169,409.86
2.	Computer test	ls	1.0000	-	5,000,000.00	-	5,000,000.00
3.	Trailer Truck 40 Ton (E51)	hour	1.8346	-	685,812.00	-	1,258,168.19
4.	Tools	ls	1.0000	-	100,000.00	-	100,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	9,527,578.05
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	24,635,149.29
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	2,463,514.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	27,098,664.22

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-791 Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY :	% TO PROJECT :
NO OF PAYMENT ITEM : 7.9.(1)	COST :
DESCRIPTION OF WORK : Stone Masonry (Mechanical)	
UNIT OF MEASUREMENT : Cu.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>LABOUR</u></b>							
1.	Common Labour (L01)	hour	5.4618		6,394.59	-	34,926.27
2.	Skilled Labour (L02)	hour	1.3655		7,442.60	-	10,162.59
3.	Foreman (L03)	hour	0.6827		8,508.36	-	5,808.92
<b>SUB TOTAL OF LABOUR</b>						0.00	50,897.78
<b>B. <u>MATERIALS</u></b>							
1.	Boulder/River Stone (M07)	M3	1.1700	0.00	169,000.00	-	197,730.00
2.	Cement (PC) (M12)	Kg	176.0000	0.00	800.00	-	140,800.00
3.	Sand (M06)	M3	0.3961	0.00	182,800.00	-	72,408.50
<b>SUB TOTAL FOR MATERIALS</b>						0.00	410,938.50
<b>C. <u>EQUIPMENT</u></b>							
1.	Conc. Mixer (E06)	hour	0.6827	0.00	59,718.77	-	40,771.85
2.	Water Tanker (E22)	hour	0.0063	0.00	226,906.38	-	1,438.85
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						0.00	43,210.70
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					0.00	505,046.98
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	50,504.70
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					0.00	555,551.68

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-792 Analysis

PROJECT  
 No. OF CONTRACT PACKAGE  
 PACKAGE NAME  
 PROVINCE / REGENCY / MUNICIPALITY  
 NO OF PAYMENT ITEM : 7.9(2)  
 DESCRIPTION OF WORK : Blinding Stone  
 UNIT OF MEASUREMENT : Cu.M

ESTIMATE QUANTITY OF  
 WORKING  
 TOTAL PRICE (Rp.)  
 % TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	jam	2.8000		6,394.59	-	17,904.85
2.	Skilled Labour (L03)	jam	0.4667		7,442.60	-	3,473.21
3.	Foreman (L04)	jam	0.4667		8,508.36	-	3,970.57
<b>JUMLAH HARGA TENAGA</b>						-	25,348.63
<b>B. MATERIAL</b>							
1.	Boulder stone (M07)	M3	1.1000	-	169,000.00	-	185,900.00
<b>JUMLAH HARGA BAHAN</b>						-	185,900.00
<b>C. EQUIPMENT</b>							
1.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>JUMLAH HARGA PERALATAN</b>						-	1,000.00
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	211,248.63
<b>E. OVERHEAD &amp; PROFIT</b>			10.00 % x D			-	21,124.86
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	232,373.49

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7112 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	7.11 (2)	ESTIMATE QUANTITY OF WORKING
DESCRIPTION OF WORK	:	Expansion Joint Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.M	% TO PROJECT

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	2.1538		6,394.59	-	13,772.96
2.	Skilled Labour (L03)	Hour	1.0769		7,442.60	-	8,015.11
3.	Foreman (L04)	Hour	0.5385		8,508.36	-	4,581.42
<b>SUB TOTAL FOR LABOUR</b>						-	26,369.49
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Expansion Joint Type A (M216)	Ln.M	13.0000	-	1,750,000.00	-	22,750,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	22,750,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Cutter Machine (E09)	Hour	0.8500	-	69,634.48	-	59,189.31
2.	Welding Machine (E28)	Hour	0.2500	-	35,353.07	-	8,838.27
3.						-	-
<b>SUB TOTAL FOR EQUIPMENT</b>						-	68,027.58
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	22,844,397.07
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	2,284,439.71
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	1,932,987.44

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-SS7114 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	SS7.11 (4)	ESTIMATE QUANTITY OF WORKING :
DESCRIPTION OF WORK	:	Restrainer Type A	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Set	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.1111		6,394.59	-	19,894.28
2.	Skilled Labour (L03)	hour	0.7778		7,442.60	-	5,788.69
3.	Foreman (L04)	hour	0.7778		8,508.36	-	6,617.61
<b>SUB TOTAL OF LABOUR</b>						-	32,300.58
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Falling Prevention Device Type (M42)	each	1.0000	43,512,000.00	50,000.00	43,512,000.00	50,000.00
<b>SUB TOTAL FOR MATERIALS</b>						43,512,000.00	50,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0105	-	288,808.64	-	3,044.67
2.	Hidroulic Jack (E25)	hour	1.0000	-	84,670.78	-	84,670.78
3.	Tools	LS	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	88,715.45
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					43,512,000.00	171,016.03
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	4,368,301.60
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					43,512,000.00	4,539,317.63

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

EI-SS7115 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	SS7.11 (5)	WORKING
DESCRIPTION OF WORK	:	Restrainer type B	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Set	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.1111		6,394.59	-	19,894.28
2.	Skilled Labour (L03)	hour	0.7778		7,442.60	-	5,788.69
3.	Foreman (L04)	hour	0.7778		8,508.36	-	6,617.61
<b>SUB TOTAL OF LABOUR</b>						-	32,300.58
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Falling Prevention Device Type (M43)	each	1.0000	33,339,750.00	50,000.00	33,339,750.00	50,000.00
<b>SUB TOTAL FOR MATERIALS</b>						33,339,750.00	50,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0105	-	288,808.64	-	3,044.67
2.	Hydraulic Jack (E25)	hour	1.0000	-	84,670.78	-	84,670.78
3.	Tools	LS	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	88,715.45
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					33,339,750.00	171,016.03
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	3,351,076.60
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					33,339,750.00	3,522,092.63

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

EI-SS7116 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTYTY OF
NO OF PAYMENT ITEM	:	SS7.11 (6)	WORKING :
DESCRIPTION OF WORK	:	Stopper for Steel Girder	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Set	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	3.1111		6,394.59	-	19,894.28
2.	Skilled Labour (L03)	hour	0.7778		7,442.60	-	5,788.69
3	Foreman (L04)	hour	0.7778		8,508.36	-	6,617.61
<b>SUB TOTAL OF LABOUR</b>						-	32,300.58
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Falling Prevention Device Type (M39)	each	1.0000	90,112,500.00	50,000.00	90,112,500.00	50,000.00
<b>SUB TOTAL FOR MATERIALS</b>						90,112,500.00	50,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0105	-	288,808.64	-	3,044.67
2.	Hidrouic Jack (E25)	hour	1.0000	-	84,670.78	-	84,670.78
3	Tools	LS	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	88,715.45
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					90,112,500.00	171,016.03
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	9,028,351.60
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					90,112,500.00	9,199,367.63

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7121 Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (2)		
DESCRIPTION OF WORK	:	Elastomeric Bearing Pad Type -1 (470x370x95)		
UNIT OF MEASUREMENT	:	Each		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL OF LABOUR</b>						-	20,118.10
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Elastomeric Bearing Pad Type (M50) (470x370x95) mm	Each	1.0000	7,368,000.00	4,000.00	7,368,000.00	4,000.00
2	Epoxy Mortar on Site (M80)	ls	4.0000	-	20,000.00	-	80,000.00
<b>SUB TOTAL FOR MATERIALS</b>						7,368,000.00	84,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0065	-	288,808.64	-	1,884.80
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,884.80
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					7,368,000.00	107,002.90
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	747,500.29
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					7,368,000.00	854,503.19



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7122a Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (2)a		
DESCRIPTION OF WORK	:	Elastomeric Bearing Pad Type - 2 (520x420x95)		
UNIT OF MEASUREMENT	:	Each		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	1.4000		6,394.59	-	8,952.43
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL OF LABOUR</b>						-	20,118.10
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Elastomeric Bearing Pad Type (520x420x95) mm (M51)	Each	1.0000	9,247,500.00	5,000.00	9,247,500.00	5,000.00
2	Epoxy Mortar on Site (M80)	ls	4.0000	-	20,000.00	-	80,000.00
<b>SUB TOTAL FOR MATERIALS</b>						9,247,500.00	85,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0065	-	288,808.64	-	1,884.80
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,884.80
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					9,247,500.00	108,002.90
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	935,550.29
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					9,247,500.00	1,043,553.19

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

EI-7122b Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (2)b		
DESCRIPTION OF WORK	:	Elastomeric Bearing Pad Type -3 (570x570x133)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	1.7500		6,394.59	-	11,190.53
2.	Skilled Labour (L03)	hour	0.8750		7,442.60	-	6,512.28
3	Foreman (L04)	hour	0.8750		8,508.36	-	7,444.82
<b>SUB TOTAL OF LABOUR</b>						-	25,147.63
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Elastomeric Bearing Pad Type (M52) (570x570x133)	Each	1.0000	18,774,600.00	10,800.00	18,774,600.00	10,800.00
2	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						18,774,600.00	110,800.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0045	-	288,808.64	-	1,304.86
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,304.86
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					18,774,600.00	138,252.49
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	1,891,285.25
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					18,774,600.00	2,029,537.74

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

El-7122c Analysis

PROJECT	:			ESTIMATE QUNTY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (2)c		
DESCRIPTION OF WORK	:	Elastomeric Bearing Pad Type -4 (570x570x133)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	1.7500		6,394.59	-	11,190.53
2.	Skilled Labour (L03)	hour	0.8750		7,442.60	-	6,512.28
3	Foreman (L04)	hour	0.8750		8,508.36	-	7,444.82
<b>SUB TOTAL OF LABOUR</b>						-	25,147.63
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Elastomeric Bearing Pad Type (570x570x133) (M53)	Each	1.0000	14,568,000.00	10,800.00	14,568,000.00	10,800.00
2	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						14,568,000.00	110,800.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0045	-	288,808.64	-	1,304.86
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	2,304.86
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					14,568,000.00	138,252.49
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	1,470,625.25
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					14,568,000.00	1,608,877.74

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7127a Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)a		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - A (Moved)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Mechanical Bearing for Steel C Type - A ( Dia 485 x 69.5 ) (M48)	Each	1.0000	70,462,500.00	15,000.00	70,462,500.00	15,000.00
2	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						70,462,500.00	115,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					70,462,500.00	168,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	7,063,076.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					70,462,500.00	7,231,346.49

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

EI-7127b Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)b		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - B (Moved)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3.	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Mechanical Bearing for Steel G Type - B ( Dia 400 x 65.5 ) (M48)	Each	1.0000	52,140,000.00	15,000.00	52,140,000.00	15,000.00
2.	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						52,140,000.00	115,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3.							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					52,140,000.00	168,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	5,230,826.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					52,140,000.00	5,399,096.49

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7127c Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)c		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - C (Fixed)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Mechanical Bearing for Steel G (M227) Type - C ( Dia 680 x 88.0 )	Each	1.0000	129,915,000.00	15,000.00	129,915,000.00	15,000.00
2	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						129,915,000.00	115,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					129,915,000.00	168,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	13,008,326.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					129,915,000.00	13,176,596.49

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7127d Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)d		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - D (Fixed)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Mechanical Bearing for Steel G (M228) Type - D ( Dia 490 x 69.0 )	Each	1.0000	184,147,500.00	15,000.00	184,147,500.00	15,000.00
2	Epoxy Mortar on Site (M80)	Kg	5.0000	-	20,000.00	-	100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						184,147,500.00	115,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					184,147,500.00	168,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	18,431,576.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					184,147,500.00	18,599,846.49

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7127e Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)e		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - E (Fixed)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Mechanical Bearing for Steel G (M229) Type - E ( Dia 910 x 110.0 )	Each	1.0000	311,160,000.00	15,000.00	311,160,000.00	15,000.00
2	Epoxy Mortar on Site (M80)	Kg	6.0000	-	20,000.00	-	120,000.00
<b>SUB TOTAL FOR MATERIALS</b>						311,160,000.00	135,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					311,160,000.00	188,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	31,134,826.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					311,160,000.00	31,323,096.49



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

**UNIT PRICE ANALYSIS**

EI-7127f Analysis

PROJECT	:			ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:			WORKING
PACKAGE NAME	:			TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST
NO OF PAYMENT ITEM	:	7.12 (7)f		
DESCRIPTION OF WORK	:	Mechanical Bearing For Steel Girder Type - F (Fixed)		
UNIT OF MEASUREMENT	:	Set		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64
3	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Mechanical Bearing for Steel G (M230) Type - F ( Dia 730 x 93.0 )	Each	1.0000	26,422,500.00	15,000.00	26,422,500.00	15,000.00
2	Epoxy Mortar on Site (M80)	Kg	6.0000	-	20,000.00	-	120,000.00
<b>SUB TOTAL FOR MATERIALS</b>						26,422,500.00	135,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92
2.	Tools	ls	1.0000		1,000.00	-	1,000.00
3							
<b>SUB TOTAL FOR EQUIPMENT</b>						-	4,080.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					26,422,500.00	188,269.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	2,661,076.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					26,422,500.00	2,849,346.49

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

**UNIT PRICE ANALYSIS**

Ei-713 Analysis

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTIY OF
NO OF PAYMENT ITEM	:	7.13	WORKING
DESCRIPTION OF WORK	:	Steel Bridge Railing	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Ln.m	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28	
2.	Skilled Labour (L03)	hour	1.4000		7,442.60	-	10,419.64	
3.	Foreman (L04)	hour	1.4000		8,508.36	-	11,911.70	
<b>SUB TOTAL OF LABOUR</b>						-	49,188.62	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Fabricated Iron Steel Bridge Irc (M238)	Ls	1.0000	-	407,500.00	-	407,500.00	
2.	Anchor Dia 25 x 200 mm (M239)	Each	4.0000	-	25,000.00	-	100,000.00	
3.	Bolt (M240)	Each	8.0000	-	5,500.00	-	44,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	551,500.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.0107	-	288,808.64	-	3,080.92	
2.	Tools	ls	1.0000		15,000.00	-	15,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	18,080.92	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	618,769.54
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	61,876.95
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	680,646.49
<b>G.</b>	<b>WORKING UNIT PRICE ( F/1.475)</b>						-	461,455.25

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-714 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	
No. OF CONTRACT PACKAGE	
PACKAGE NAME	
PROVINCE / REGENCY / MUNICIPALITY	ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM : 7.14	WORKING :
DESCRIPTION OF WORK : Bridge Name Plate	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT : Each	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	14.0000		6,394.59	-	89,524.26	
2.	Skilled Labour (L03)	hour	7.0000		7,442.60	-	52,098.20	
3.	Foreman (L04)	hour	7.0000		8,508.36			
<b>SUB TOTAL FOR LABOUR</b>						-	141,622.46	
<b>B.</b>	<b><u>MATERIAL</u></b>							
1.	Marmer (M79)	Each	1.0000	-	1,000,000.00	-	1,000,000.00	
2.	Cement (M12)	kg	20.0000	-	800.00	-	16,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	1,016,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tools	LS	1.0000		25,000.00	-	25,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	25,000.00	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	1,182,622.46
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D						-	118,262.25
<b>F.</b>	WORKING UNIT PRICE ( D + E )						-	1,300,884.71

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-71511 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE		WORKING :
PACKAGE NAME		TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST :
NO OF PAYMENT ITEM	: 7.15 (11)	
DESCRIPTION OF WORK	: Demolition of Existing Hedge or Fence	
UNIT OF MEASUREMENT	: Ln. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common labour (L02)	hour	0.2000		6,394.59	-	1,278.92	
2.	Foreman (L04)	hour	0.0500		8,508.36	-	425.42	
<b>SUB TOTAL FOR LABOUR</b>						-	1,704.34	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.0500	-	123,276.35	-	6,163.82	
2.	Jack Hammer (E24)	hour	0.0500	-	21,008.79	-	1,050.44	
3.	Wheel Loader (E16)	hour	0.0500	-	270,655.03	-	13,532.75	
4.	Dump Truck 6 T (E37)	hour	0.0235	-	198,128.75	-	4,654.83	
5.	Tools	ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	26,401.84	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	28,106.18
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D						-	2,810.62
<b>F.</b>	WORKING UNIT PRICE ( D + E )						-	30,916.80

THE NORTH JAVA CORRIDOR FLYOVER  
 SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
 BILL OF QUANTITY - MERAK FLYOVER  
 (ENGINEER ESTIMATE)

EI-7152 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE		WORKING
PACKAGE NAME		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST
NO OF PAYMENT ITEM	: 7.15 (2)	:
DESCRIPTION OF WORK	: Demolition of Existing Structure Concrete	:
UNIT OF MEASUREMENT	: Cu.M	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common labour (L02)	hour	2.4000		6,394.59	-	15,347.02
2.	Foreman (L04)	hour	0.2000		8,508.36	-	1,701.67
<b>SUB TOTAL FOR LABOUR</b>						-	17,048.69
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Compressor (E05)	hour	0.2000	-	123,276.35	-	24,655.27
2.	Jack Hammer (E24)	hour	0.2000	-	21,008.79	-	4,201.76
3.	Wheel Loader (E16)	hour	0.2000	-	270,655.03	-	54,131.01
4.	Dump Truck 6 T (E37)	hour	0.1054	-	198,128.75	-	20,887.07
5.	Tools	ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	104,875.11
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )					-	121,923.80
<b>E.</b>	OVERHEAD & PROFIT			10.00 % x D		-	12,192.38
<b>F.</b>	WORKING UNIT PRICE ( D + E )					-	134,116.18

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-71510 Analysis

**UNIT PRICE ANALYSIS**

PROJECT			
No. OF CONTRACT PACKAGE			
PACKAGE NAME			
PROVINCE / REGENCY / MUNICIPALITY		ESTIMATE QUANTITY OF	
NO OF PAYMENT ITEM	: 7.15 (10)	WORKING	:
DESCRIPTION OF WORK	: Demolition of existing Rigid Pavement	TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	: Sq.M	% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common labour (L02)	hour	0.6000		6,394.59	-	3,836.75
2.	Foreman (L04)	hour	0.0600		8,508.36	-	510.50
<b>SUB TOTAL FOR LABOUR</b>						-	4,347.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
<b>SUB TOTAL FOR MATERIALS</b>						-	-
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Compressor (E05)	hour	0.0600	-	123,276.35	-	7,396.58
2.	Jack Hammer (E24)	hour	0.0600	-	21,008.79	-	1,260.53
3.	Wheel Loader (E16)	hour	0.0600	-	270,655.03	-	16,239.30
4.	Dump Truck 6 T (E37)	hour	0.0316	-	198,128.75	-	6,266.12
5.	Tools	ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	32,162.53
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	36,509.78
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	3,650.98
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	40,160.76

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-71511 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE		WORKING :
PACKAGE NAME		TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST :
NO OF PAYMENT ITEM	: 7.15 (11)	
DESCRIPTION OF WORK	: Demolition of Existing Hedge or Fence	
UNIT OF MEASUREMENT	: Ln. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common labour (L02)	hour	0.2000		6,394.59	-	1,278.92	
2.	Foreman (L04)	hour	0.0500		8,508.36	-	425.42	
<b>SUB TOTAL FOR LABOUR</b>						-	1,704.34	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.0500	-	123,276.35	-	6,163.82	
2.	Jack Hammer (E24)	hour	0.0500	-	21,008.79	-	1,050.44	
3.	Wheel Loader (E16)	hour	0.0500	-	270,655.03	-	13,532.75	
4.	Dump Truck 6 T (E37)	hour	0.0235	-	198,128.75	-	4,654.83	
5.	Tools	ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	26,401.84	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	28,106.18
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D						-	2,810.62
<b>F.</b>	WORKING UNIT PRICE ( D + E )						-	30,916.80

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-71512 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE		WORKING :
PACKAGE NAME		TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST :
NO OF PAYMENT ITEM	: 7.15 (12)	
DESCRIPTION OF WORK	: Demolition of Concrete Side Walk	
UNIT OF MEASUREMENT	: Sq. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common labour (L02)	hour	0.0800		6,394.59	-	511.57	
2.	Foreman (L04)	hour	0.0400		8,508.36	-	340.33	
<b>SUB TOTAL FOR LABOUR</b>						-	851.90	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.0400	-	123,276.35	-	4,931.05	
2.	Jack Hammer (E24)	hour	0.0400	-	21,008.79	-	840.35	
3.	Wheel Loader (E16)	hour	0.0400	-	270,655.03	-	10,826.20	
4.	Dump Truck 6 T (E37)	hour	0.0352	-	198,128.75	-	6,982.25	
5.	Tools	ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	24,579.85	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	25,431.75
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	2,543.18
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	27,974.93



THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-71513 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE		WORKING :
PACKAGE NAME		TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST :
NO OF PAYMENT ITEM	: 7.15 (13)	
DESCRIPTION OF WORK	: Demolition of Concrete Curb	
UNIT OF MEASUREMENT	: Ln. M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common labour (L02)	hour	0.1600		6,394.59	-	1,023.13	
2.	Foreman (L04)	hour	0.0200		8,508.36	-	170.17	
<b>SUB TOTAL FOR LABOUR</b>						-	1,193.30	
<b>B.</b>	<b><u>MATERIALS</u></b>							
<b>SUB TOTAL FOR MATERIALS</b>						-	-	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.0200	-	123,276.35	-	2,465.53	
2.	Jack Hammer (E24)	hour	0.0200	-	21,008.79	-	420.18	
3.	Wheel Loader (E16)	hour	0.0200	-	270,655.03	-	5,413.10	
4.	Dump Truck 6 T (E37)	hour	0.0235	-	198,128.75	-	4,654.83	
5.	Tools	ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	13,453.64	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	14,646.94
<b>E.</b>	OVERHEAD & PROFIT 10.00 % x D						-	1,464.69
<b>F.</b>	WORKING UNIT PRICE ( D + E )						-	16,111.63

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

EI-7162 Analysis

**UNIT PRICE ANALYSIS**

PROJECT

No. OF CONTRACT PACKAGE

PACKAGE NAME

PROVINCE / REGENCY / MUNICIPALITY

NO OF PAYMENT ITEM

DESCRIPTION OF WORK

UNIT OF MEASUREMENT

: 7.16 (2)

: Concrete Pavement (t=270 mm)

: Sq. M

ESTIMATE QUANTITY OF

WORKING

TOTAL PRICE (Rp.)

% TO PROJECT COST

:

:

:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. LABOUR</b>								
1.	Common Labour (L02)	hour	49.0000		6,394.59	-	313,334.91	
2.	Skilled Labour (L03)	hour	14.0000		7,442.60	-	104,196.40	
3.	Foremen (L04)	hour	7.0000		8,508.36	-	59,558.52	
<b>SUB TOTAL FOR LABOUR</b>						-	<b>477,089.83</b>	
<b>B. MATERIAL</b>								
1	Curing Compound (M76)	Kg	20.0000	-	14,850.00	-	297,000.00	
2	Concrete Class B (EI-7134)	M3	27.0000	-	657,603.77	-	17,755,301.74	
3	Reinforced (M14)	M3	650.0000	-	6,087.94	-	3,957,161.00	
4	Joint Sealant (M241)	Ln.M	20.0000	-	3,500.00	-	70,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	<b>22,079,462.74</b>	
<b>C. EQUIPMENT</b>								
1	Air Compressor (E05)	hour	1.5907	-	123,276.35	-	196,100.29	
2	Con. Vibrator (E07)	hour	0.3000	-	30,612.66	-	9,183.80	
3	Concrete Cutter (E09)	hour	2.8571	-	69,634.48	-	198,955.66	
4	Tools	Ls	1.0000	-	1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	<b>405,239.75</b>	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	<b>22,961,792.32</b>
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	<b>2,296,179.23</b>
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	<b>25,257,971.55</b>
<b>G.</b>	<b>WORKING UNIT PRICE ( F / 100 )</b>						-	<b>252,579.72</b>

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-7171 Analysis

**UNIT PRICE ANALYSIS**

PROJECT		ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE		WORKING	:
PACKAGE NAME		TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY		% TO PROJECT COST	:
NO OF PAYMENT ITEM	: 7.17(1)		
DESCRIPTION OF WORK	: Lean Concrete for Rigid Pavement ( t = 100 mm )		
UNIT OF MEASUREMENT	: Sq.M		

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	49.0000		6,394.59	-	313,334.91
2.	Skilled Labour (L03)	hour	14.0000		7,442.60	-	104,196.40
3.	Foreman (L04)	hour	7.0000		8,508.36	-	59,558.52
<b>SUB TOTAL FOR LABOUR</b>						-	477,089.83
<b>B.</b>	<b><u>BAHAN</u></b>						
1.	Concrete Class E (E1-718)	M3	10.0000	-	379,144.16	-	3,791,441.60
2.	Curing Compound (M76)	Kg	10.0000	-	14,850.00	-	148,500.00
<b>SUB TOTAL FOR MATERIALS</b>						-	3,939,941.60
<b>C.</b>	<b><u>PERALATAN</u></b>						
1.	Air Compressor (E05)	hour	0.4016	-	123,276.35	-	49,508.57
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	50,508.57
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	4,050,008.69
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	405,000.87
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	4,455,009.56
<b>G.</b>	<b>WORKING UNIT PRICE ( F / 100 )</b>					-	44,550.10

**DIVISION 8.  
MISCELLANEOUS**

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Ei-811Analysis

**UNIT PRICE ANALYSIS**

PROJECT :	ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE :	WORKING :
PACKAGE NAME :	TOTAL PRICE (Rp.) :
PROVINCE / REGENCY / MUNICIPALIT :	% TO PROJECT COST :
NO OF PAYMENT ITEM : 8.1.(1)	
DESCRIPTION OF WORK : Solid Sodding	
UNIT OF MEASUREMENT : Sq.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	jam	0.1867		6,394.59	-	1,193.66	
2.	Skilled Labour (L03)	jam	0.0467		7,442.60	-	347.32	
3.	Foreman (L04)	jam	0.0467		8,508.36	-	397.06	
<b>SUB TOTAL FOR LABOUR</b>							1,938.04	
<b>B.</b>	<b><u>MATERIAL</u></b>							
1.	Solid Sodding (M88)	M2	1.1000	-	7,900.00	-	8,690.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	8,690.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	500.00	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	11,128.04
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	1,112.80
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	12,240.84

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-831Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:	
No. OF CONTRACT PACKAGE	:	
PACKAGE NAME	:	
PROVINCE / REGENCY / MUNICIPALITY	:	
NO OF PAYMENT ITEM	:	8.3.(1)
DESCRIPTION OF WORK	:	Vehicle Guard Rail, Type A
UNIT OF MEASUREMENT	:	Ln.M

	ESTIMATE QUNTITY OF	
	WORKING	:
	TOTAL PRICE (Rp.)	:
	% TO PROJECT COST	:

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	hour	2.240		6,394.59	-	14,323.88
2.	Skilled Labour (L03)	hour	0.280		7,442.60	-	2,083.93
3.	Foreman (L04)	hour	0.280		8,508.36	-	2,382.34
<b>SUB TOTAL FOR LABOUR</b>						-	18,790.15
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Beam ( 4 m ) (M203)	each	1.000	-	639,100.00	-	639,100.00
2.	Post / Column ( 1.8 M ) (M204)	each	1.500	-	337,700.00	-	506,550.00
3.	Blocking Piece (M205)	each	3.000	-	64,900.00	-	194,700.00
4.	Terminal End (M206)	each	0.050	-	346,500.00	-	17,325.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,357,675.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	Hour	0.056	-	288,808.64	-	16,125.15
2.	Tools	Ls	1.000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	21,125.15
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,383,497.69
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	138,349.77
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	1,521,847.46
<b>G.</b>	<b>WORKING UNIT PRICE ( F / 4 )</b>					-	415,049.31

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-8313Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	8.3.(13)	
DESCRIPTION OF WORK	:	BRC Fence	
UNIT OF MEASUREMENT	:	Ln.M	

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	2.1000		6,394.59	-	13,428.64	
2.	Skilled Labour (L03)	hour	0.3500		7,442.60	-	2,604.91	
3.	Foreman (L04)	hour	0.3500		8,508.36	-	2,977.93	
<b>SUB TOTAL FOR LABOUR</b>						-	19,011.48	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	BRC panel (M201)	each	1.0000	-	154,075.00	-	154,075.00	
2.	BRC pole (M202)	each	2.0000	-	64,500.00	-	129,000.00	
3.	Concrete Class C (E1715)	Cu.M	0.0320	-	724,252.78	-	23,176.09	
<b>SUB TOTAL FOR MATERIALS</b>						-	306,251.09	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Dump Truck 6 T (E37)	hour	0.0437	-	198,128.75	-	8,651.62	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	9,651.62	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	334,914.19
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	33,491.42
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	368,405.61
<b>G.</b>	<b>WORKING UNIT PRICE ( F/2.40 )</b>						-	153,502.34

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-8315 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	8.3.(15)	
DESCRIPTION OF WORK	:	Guard Fence Over Railway	
UNIT OF MEASUREMENT	:	Ln.M	

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	hour	4.2000		6,394.59	-	26,857.28
2.	Skilled Labour (L03)	hour	0.7000		7,442.60	-	5,209.82
3.	Foreman (L04)	hour	0.7000		8,508.36	-	5,955.85
<b>SUB TOTAL FOR LABOUR</b>						-	38,022.95
<b>B. MATERIALS</b>							
1.	Pipa dia 4 1/2 " (M242)	In.m	6.2000		176,125.00	-	1,091,975.00
2.	Wire Net (M243)	Sq.m	4.2000		7,500.00	-	31,500.00
3.	Wire (M244)	In.m	10.0000		1,100.00	-	11,000.00
4.	Others	ls	1.0000		175,000.00		175,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,309,475.00
<b>C. EQUIPMENT</b>							
1.	Dump Truck 6 T (E37)	hour	0.0540	-	198,128.75	-	10,698.95
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	11,698.95
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	1,359,196.90
<b>E. OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	135,919.69
<b>F. UNIT PRICE ( D + E )</b>						-	1,495,116.59
<b>G. WORKING UNIT PRICE ( F/2.00 )</b>						-	747,558.30



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

E1-841Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		
NO OF PAYMENT ITEM	:	8.4.(1)	ESTIMATE QUNTITY OF WORKING
DESCRIPTION OF WORK	:	Regulatory and Warning Sign,Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	2.3333		6,394.59	-	14,920.71
2.	Skilled Labour (L03)	Hour	0.4667		7,442.60	-	3,473.21
3.	Foreman (L04)	Hour	0.4667		8,508.36	-	3,970.57
<b>SUB TOTAL FOR LABOUR</b>						-	22,364.49
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Sign Plate Type A (M71)	Each	1.0000	-	304,000.00	-	304,000.00
2.	Galvanized Pipe 2.5" (M20)	Each	1.0000	-	76,000.00	-	76,000.00
3.	Concrete Class C (E1715)	M3	0.2000	-	724,252.78	-	144,850.56
<b>SUB TOTAL FOR MATERIALS</b>						-	524,850.56
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	Hour	0.0246	-	288,808.64	-	7,099.88
2.	Tools	Ls	1.0000	-	5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	12,099.88
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	559,314.93
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	55,931.49
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	615,246.42

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-842Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTITY OF
NO OF PAYMENT ITEM	:	8.4. (2)	WORKING
DESCRIPTION OF WORK	:	Regulatory and Warning Sign, Type B	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	2.3333		6,394.59	-	14,920.71
2.	Skilled Labour (L03)	Hour	0.4667		7,442.60	-	3,473.21
3.	Foreman (L04)	Hour	0.4667		8,508.36	-	3,970.57
<b>SUB TOTAL FOR LABOUR</b>						-	22,364.49
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Sign Plate Type B (M72)	Each	1.0000	-	608,000.00	-	608,000.00
2.	Galvanized Pipe 1.6" (M21)	Each	1.1000	-	92,600.00	-	101,860.00
3.	Concrete Class C (EI715)	M3	0.3600	-	724,252.78	-	260,731.00
<b>SUB TOTAL FOR MATERIALS</b>						-	970,591.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	Hour	0.0272	0.00	288,808.64	-	7,862.01
2.	Tools	Ls	1.0000	0.00	5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	12,862.01
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,005,817.50
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	100,581.75
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	1,106,399.25

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-8517Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUNTITY OF
NO OF PAYMENT ITEM	:	8.5.(17)	WORKING
DESCRIPTION OF WORK	:	Overhead Sign Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. LABOUR</b>							
1.	Common Labour (L02)	Hour	42.0000		6,394.59	-	268,572.78
2.	Skilled Labour (L03)	Hour	14.0000		7,442.60	-	104,196.40
3.	Foreman (L04)	Hour	7.0000		8,508.36	-	59,558.52
<b>SUB TOTAL FOR LABOUR</b>						-	432,327.70
<b>B. MATERIALS</b>							
1.	Sign Plate (High Intensity Grade) (M66)	Sq. M	2.1250	-	1,578,000.00	-	3,353,250.00
2.	Frame & Accessories (M210)	Unit	1.0000	-	5,184,000.00	-	5,184,000.00
3.	Concrete Class C (EI715)	Cu.M	2.8800	-	724,252.78	-	2,085,848.01
4.	Painting, etc	Ls	1.0000	-	150,000.00	-	150,000.00
5.	H beam 300x300x10x15 (M211)	Ln.M	6.0000	-	1,222,000.00	-	7,332,000.00
6.	Concrete Class E (EI718)	Cu.M	0.1372	-	473,930.20	-	65,023.22
7.	Blinding stone (M07)	Cu.M	0.2940	-	169,000.00	-	49,686.00
<b>SUB TOTAL FOR MATERIALS</b>						-	18,219,807.23
<b>C. EQUIPMENT</b>							
1.	Flat bed truck crane 5 t (E31)	Hour	0.4500	-	288,808.64	-	129,963.89
2.	Tools	Ls	1.0000	-	10,000.00	-	10,000.00
3.	Driven H beam	Ln.M	6.0000	-	30,000.00	-	180,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	319,963.89
<b>D. TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	18,972,098.82
<b>E. OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	1,897,209.88
<b>F. WORKING UNIT PRICE ( D + E )</b>						-	20,869,308.70

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-8518Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:	
No. OF CONTRACT PACKAGE	:	
PACKAGE NAME	:	
PROVINCE / REGENCY / MUNICIPALITY	:	
NO OF PAYMENT ITEM	:	ESTIMATE QUANTITY OF
DESCRIPTION OF WORK	:	WORKING
UNIT OF MEASUREMENT	:	TOTAL PRICE (Rp.)
	:	% TO PROJECT COST

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	42.0000		6,394.59	-	268,572.78
2.	Skilled Labour (L03)	Hour	14.0000		7,442.60	-	104,196.40
3.	Foreman (L04)	Hour	7.0000		8,508.36	-	59,558.52
<b>SUB TOTAL FOR LABOUR</b>						-	432,327.70
<b>B.</b>	<b><u>MATERIALS</u></b>						
1	Sign Plate (High Intensity Grade) (M66)	Sq. M	3.4000	-	1,578,000.00	-	5,365,200.00
2	Frame & Accessories (M213)	Unit	1.0000	-	6,750,000.00	-	6,750,000.00
3	Concrete Class C (EI715)	Cu.M	2.8800	-	724,252.78	-	2,085,848.01
4	Painting, etc	Ls	1.0000	-	150,000.00	-	150,000.00
5	H beam 350x350x12x19 (M212)	Ln.M	6.0000	-	1,644,000.00	-	9,864,000.00
6	Concrete Class E (EI718)	Cu.M	0.1372	-	473,930.20	-	65,023.22
7	Blinding Stone (M07)	Cu.M	0.2940	-	169,000.00	-	49,686.00
<b>SUB TOTAL FOR MATERIALS</b>						-	24,329,757.23
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	Hour	0.4500	-	288,808.64	-	129,963.89
2.	Tools	Ls	1.0000	-	20,000.00	-	20,000.00
3	Driven H beam	Ln.M	6.0000	-	30,000.00	-	180,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	329,963.89
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	25,092,048.82
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	2,509,204.88
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	27,601,253.70

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-8519Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE	:			WORKING	:
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:
NO OF PAYMENT ITEM	:	8.5.(19)			
DESCRIPTION OF WORK	:	Overhead Sign Type C			
UNIT OF MEASUREMENT	:	Each			

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Common Labour (L02)	Hour	112.0000		6,394.59	-	716,194.08
2.	Skilled Labour (L03)	Hour	28.0000		7,442.60	-	208,392.80
3.	Foreman (L04)	Hour	14.0000		8,508.36	-	119,117.04
<b>SUB TOTAL FOR LABOUR</b>						-	1,043,703.92
<b>B.</b>	<b><u>MATERIALS</u></b>						
	Sign Plate (High Intensity Grade) (M66)	Sq. M	5.0000	-	1,578,000.00	-	7,890,000.00
1.	Frame & Accessories (M214)	Unit	1.0000	-	40,492,928.57	-	40,492,928.57
2.	Concrete Class C (E1715)	Cu.M	2.4000	-	724,252.78	-	1,738,206.67
3.	Painting, etc	Ls	1.0000	-	150,000.00	-	150,000.00
4.	H beam 300x300x10x15 (M215)	Ln.M	12.0000	-	1,222,000.00	-	14,664,000.00
5.	Concrete Class E (E1718)	Cu.M	0.2016	-	473,930.20	-	95,544.33
6.	Blinding Stone (M07)	Cu.M	0.4320	-	169,000.00	-	73,008.00
<b>SUB TOTAL FOR MATERIALS</b>						-	65,103,687.57
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	Hour	0.9000	-	288,808.64	-	259,927.78
2.	Tools	Ls	1.0000	-	50,000.00	-	50,000.00
3.	Driven H beam	Ln.M	12.0000	-	30,000.00	-	360,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	669,927.78
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	66,817,319.27
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	6,681,731.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	73,499,051.20

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-866 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:			ESTIMATE QUANTITY OF	
No. OF CONTRACT PACKAGE	:			WORKING	:
PACKAGE NAME	:			TOTAL PRICE (Rp.)	:
PROVINCE / REGENCY / MUNICIPALITY	:			% TO PROJECT COST	:
NO OF PAYMENT ITEM	:	8.6 (6)			
DESCRIPTION OF WORK	:	Reflective thermoplastic pavement marking			
UNIT OF MEASUREMENT	:	Sq.M			

NO.	COMPONENT	UNIT	ESTIMATE QUANTITY	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Common Labour (L02)	hour	0.9000		6,394.59	-	5,755.13	
2.	Skilled Labour (L03)	hour	0.1500		7,442.60	-	1,116.39	
3.	Foreman (L04)	hour	0.1500		8,508.36	-	1,276.25	
<b>SUB TOTAL FOR LABOUR</b>						-	8,147.77	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Thermoplastic Road Marking (M74)	Kg	1.9500	-	18,000.00	-	35,100.00	
2.	Thinner (M94)	Liter	1.0500	-	25,800.00	-	27,090.00	
3.	Glass Beads (M65)	Kg	0.4500	-	14,800.00	-	6,660.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	68,850.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Compressor (E05)	hour	0.1500	-	123,276.35	-	18,491.45	
2.	Dump Truck 6 T (E37)	hour	0.1500	-	198,128.75	-	29,719.31	
3.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	49,210.76	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	126,208.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	12,620.85
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	138,829.38

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-881 Analysis

**UNIT PRICE ANALYSIS**

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY  
NO OF PAYMENT ITEM : 8.8.(1) WORKING VOLUME ESTIMATION :  
DESCRIPTION OF WORK : Precast Concrete Curb Type A TOTAL PRICE (Rp.) :  
UNIT OF MEASUREMENT : Ln.M % TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A. <u>TENAGA</u></b>							
1	Common Labour (L02)	Hour	0.5185		6,394.59	-	3,315.71
2	Skilled Labour (L03)	Hour	0.1296		7,442.60	-	964.78
3	Foreman (L04)	Hour	0.1296		8,508.36	-	1,102.94
<b>SUB TOTAL FOR LABOUR</b>						-	5,383.43
<b>B. <u>MATERIAL</u></b>							
1.	Strc.Concrete Class C (EI-715)	Cu.M	0.0614	724,252.78	-	44,487.23	-
2	Strc.Concrete Class E (EI-718)	Cu.M	0.0263	-	473,930.20	-	12,440.67
3	Mortar	Cu.M	0.0066	-	479,418.40	-	3,171.35
<b>SUB TOTAL FOR MATERIALS</b>						44,487.23	15,612.02
<b>C. <u>EQUIPMENT</u></b>							
1.	Flat bed truck crane 5 t (E31)	hour	0.0642	-	288,808.64	-	18,540.80
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	19,540.80
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					44,487.23	40,536.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	8,502.35
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					44,487.23	49,038.60

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-882 Analysis

**UNIT PRICE ANALYSIS**

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY  
NO OF PAYMENT ITEM : 8.8.(2)  
DESCRIPTION OF WORK : Precast Concrete Curb Type B  
UNIT OF MEASUREMENT : Ln.M

WORKING VOLUME ESTIMATION :  
TOTAL PRICE (Rp.) :  
% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>TENAGA</u></b>						
1	Common Labour (L02)	Hour	1.1667		6,394.59	-	7,460.36
2	Skilled Labour (L03)	Hour	0.2333		7,442.60	-	1,736.61
3	Foreman (L04)	Hour	0.2333		8,508.36	-	1,985.28
<b>SUB TOTAL FOR LABOUR</b>						-	11,182.25
<b>B.</b>	<b><u>MATERIAL</u></b>						
1.	Strc.Concrete Class C (EI-715)	Cu.M	0.1046	724,252.78	-	75,761.37	-
2	Deform Reinforced Steel U-32 (EI-734)	Kg	11.3797	9,444.25	-	107,472.70	-
3	Strc.Concrete Class E (EI-718)	Cu.M	0.0756	-	473,930.20	-	35,829.12
4	Mortar	Cu.M	0.0214	-	479,418.40	-	10,269.14
<b>SUB TOTAL FOR MATERIALS</b>						183,234.07	46,098.26
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat bed truck crane 5 t (E31)	hour	0.0656	-	288,808.64	-	18,933.01
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	19,933.01
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					183,234.07	77,213.52
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>					-	26,044.76
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					183,234.07	103,258.28



**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-893 Analysis

**UNIT PRICE ANALYSIS**

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY  
NO OF PAYMENT ITEM : 8.9.(3)  
DESCRIPTION OF WORK : Concrete Median, Type A  
UNIT OF MEASUREMENT : Ln.M

WORKING VOLUME ESTIMATION :  
TOTAL PRICE (Rp.) :  
% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>TENAGA</u></b>							
1	Common Labour (L02)	Hour	2.5000		6,394.59	-	15,986.48	
2	Skilled Labour (L03)	Hour	0.5000		7,442.60	-	3,721.30	
3	Foreman (L04)	Hour	0.5000		8,508.36	-	4,254.18	
<b>SUB TOTAL FOR LABOUR</b>						-	23,961.96	
<b>B.</b>	<b><u>MATERIAL</u></b>							
1.	Strc.Concrete Class B-1 (EI-7141)	Cu.M	0.1229	-	784,781.74	-	96,410.44	
2	Strc.Concrete Class E (EI-718)	Cu.M	0.0525	-	473,930.20	-	24,881.34	
3	Mortar	Cu.M	0.0132	-	479,418.40	-	6,342.71	
<b>SUB TOTAL FOR MATERIALS</b>						-	127,634.49	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat bed truck crane 5 t (E31)	hour	0.1833	-	288,808.64	-	52,948.25	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	53,948.25	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	205,544.70
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	20,554.47
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	226,099.17

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

EI-894 Analysis

**UNIT PRICE ANALYSIS**

PROJECT  
No. OF CONTRACT PACKAGE  
PACKAGE NAME  
PROVINCE / REGENCY / MUNICIPALITY  
NO OF PAYMENT ITEM : 8.9.(4)  
DESCRIPTION OF WORK : Concrete Median, Type B  
UNIT OF MEASUREMENT : Ln.M

WORKING VOLUME ESTIMATION :  
TOTAL PRICE (Rp.) :  
% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>TENAGA</u></b>							
1	Common Labour (L02)	Hour	7.0000		6,394.59	-	44,762.13	
2	Skilled Labour (L03)	Hour	1.4000		7,442.60	-	10,419.64	
3	Foreman (L04)	Hour	1.4000		8,508.36	-	11,911.70	
<b>SUB TOTAL FOR LABOUR</b>						-	67,093.47	
<b>B.</b>	<b><u>MATERIAL</u></b>							
1.	Strc.Concrete Class B-1 (EI-7141)	Cu.M	0.3006	-	784,781.74	-	235,875.96	
2	Deform Reinforced Steel U-32 (EI-733)	Kg	26.4940	-	9,444.25	-	250,216.25	
3	Strc.Concrete Class E (EI-718)	Cu.M	0.0525	-	473,930.20	-	24,881.34	
<b>SUB TOTAL FOR MATERIALS</b>						-	510,973.55	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat bed truck crane 5 t (E31)	hour	0.2133	-	288,808.64	-	61,612.51	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	62,612.51	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	640,679.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	64,067.95
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	704,747.48

THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)

EI-895 Analysis

**UNIT PRICE ANALYSIS**

PROJECT	:		ESTIMATE QUANTITY OF
No. OF CONTRACT PACKAGE	:		WORKING
PACKAGE NAME	:		TOTAL PRICE (Rp.)
PROVINCE / REGENCY / MUNICIPALITY	:		% TO PROJECT COST
NO OF PAYMENT ITEM	:	8.9.(5)	
DESCRIPTION OF WORK	:	Concrete Sidewalk	
UNIT OF MEASUREMENT	:	Sq.M	

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1	Common Labour (L02)	Hour	0.4200		6,394.59	-	2,685.73	
2	Skilled Labour (L03)	Hour	0.1400		7,442.60	-	1,041.96	
3	Foreman (L04)	Hour	0.0700		8,508.36	-	595.59	
<b>SUB TOTAL FOR LABOUR</b>						-	4,323.28	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Paving Block (M73)	Sq.M	1.0500	-	63,500.00	-	66,675.00	
2.	Sand for Embankment (M05)	Sq.M	0.0525	-	118,300.00	-	6,210.75	
<b>SUB TOTAL FOR MATERIALS</b>						-	72,885.75	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tamper (E23)	hour	0.0201	-	24,023.26	-	482.39	
2.	Tools	Ls	1.0000		1,000.00	-	1,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	1,482.39	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	78,691.42
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.0 % x D</b>						-	7,869.14
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	86,560.56

**DIVISION 9.  
FACILITIES**

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 911

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(1)	WORKING
DESCRIPTION OF WORK	:	Street Lighting pole Type A ( 11 m )	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	1.4056		8,508.36	-	11,959.54
2.	Skill labour (L03)	hour	1.4056		7,442.60	-	10,461.49
3.	Electrician (L08)	hour	2.8112		8,881.38	-	24,967.73
4.	Common labour (L02)	hour	5.6225		6,394.59	-	35,953.52
<b>SUB TOTAL OF LABOUR</b>						-	83,342.28
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.a.	Lighting pole ( 11 m )and acces (M96)	Each	1.00	-	5,410,500.00	-	5,410,500.00
1.b.	Lamps and accessories Son 25 (M98)	Each	1.00	-	1,400,000.00	-	1,400,000.00
1.c.	Foundation Type I for street ligh (M99)	Each	1.00	-	1,080,000.00	-	1,080,000.00
1.d.	Anchor and Bolt ( Dia 22 ) (M101)	Each	4.00	-	45,000.00	-	180,000.00
1.e.	PVC Conduit dia 2.5 " (M103)	M	2.40	-	25,562.50	-	61,350.00
<b>SUB TOTAL FOR MATERIALS</b>						-	8,131,850.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.4056		288,808.64	-	405,955.92
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	410,955.92
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	8,626,148.20
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	862,614.82
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	9,488,763.02

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 9110

**UNIT PRICE ANALYSIS**

PROJECT :  
 No. OF CONTRACT PACKAGE :  
 PACKAGE NAME :  
 PROVINCE / REGENCY / MUNICIPALITY :  
 NO OF PAYMENT ITEM : 9.1.(10)  
 DESCRIPTION OF WORK : Street Ligthing Ceiling, Type A - Sont 150 Watt  
 UNIT OF MEASUREMENT : Each

ESTIMATE QUANTITY OF WORKING :  
 TOTAL PRICE (Rp.) :  
 % TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	1.2048		8,508.36	-	10,251.04
2.	Skill labour (L03)	hour	1.2048		7,442.60	-	8,966.99
3.	Electrician (L08)	hour	1.2048		8,881.38	-	10,700.46
4.	Common labour (L02)	hour	4.8193		6,394.59	-	30,817.30
<b>SUB TOTAL OF LABOUR</b>						-	60,735.79
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.a.	Lamps and accessories Sont 1 $\frac{1}{2}$ (M105)	Each	1.00	-	1,800,000.00	-	1,800,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,800,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.2048		288,808.64	-	347,962.22
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	352,962.22
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	2,213,698.01
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	221,369.80
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,435,067.81

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9110

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(10)a	WORKING
DESCRIPTION OF WORK	:	Street Lighting Ceiling, Type B - Sont 250 Watt	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	1.2048		8,508.36	-	10,251.04
2.	Skill labour (L03)	hour	1.2048		7,442.60	-	8,966.99
3.	Electrician (L08)	hour	1.2048		8,881.38	-	10,700.46
4.	Common labour (L02)	hour	4.8193		6,394.59	-	30,817.30
<b>SUB TOTAL OF LABOUR</b>						-	60,735.79
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.a.	Lamps and accessories Sont 2 $\frac{1}{2}$ (M235)	Each	1.00	-	1,950,000.00	-	1,950,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,950,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.2048		288,808.64	-	347,962.22
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	352,962.22
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	2,363,698.01
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	236,369.80
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,600,067.81

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912a

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)a	WORKING
DESCRIPTION OF WORK	:	Street Lighting Panel, LP-PJU Type A FO	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	188,809.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	1.0000	-	900,000.00	-	900,000.00
2.	Amphermeter (M218)	Each	3.0000	-	75,000.00	-	225,000.00
3.	Voltmeter (M219)	Each	1.0000	-	75,000.00	-	75,000.00
4.	Indicator Lamp (M106)	Each	3.0000	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	1.0000	-	250,000.00	-	250,000.00
6.	MCB 3P 50 A (M221)	Each	7.0000	-	350,000.00	-	2,450,000.00
7.	LBS 125 A (M222)	Each	1.0000	-	375,000.00	-	375,000.00
8.	Contactora ( timer ) (M223)	Each	1.0000	-	200,000.00	-	200,000.00
9.	Panel Box Type A ( 100 x 80 x t (M109)	Each	1.0000	-	250,000.00	-	250,000.00
10.	Foundation Type II for panel (M100)	Each	1.0000	-	750,000.00	-	750,000.00
11.	Cable G BCC 16 mm2 (M110)	Ln.M	3.0000	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.0000	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	5,795,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	5,988,809.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	% x D		-	598,880.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	6,587,690.18



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912b

**UNIT PRICE ANALYSIS**

PROJECT	:				
No. OF CONTRACT PACKAGE	:				
PACKAGE NAME	:				
PROVINCE / REGENCY / MUNICIPALITY	:			ESTIMATE QUANTITY OF	
NO OF PAYMENT ITEM	:	9.1.(12)b		WORKING	:
DESCRIPTION OF WORK	:	Panel Type LP-PJU.1		TOTAL PRICE (Rp.)	:
UNIT OF MEASUREMENT	:	Each		% TO PROJECT COST	:

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	188,809.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	1.00	-	900,000.00	-	900,000.00
2.	Amphermeter (M218)	Each	3.00	-	75,000.00	-	225,000.00
3.	Voltmeter (M219)	Each	1.00	-	75,000.00	-	75,000.00
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	1.00	-	250,000.00	-	250,000.00
6.	MCB 3P 50 A (M221)	Each	6.00	-	350,000.00	-	2,100,000.00
7.	LBS 125 A (M222)	Each	1.00	-	375,000.00	-	375,000.00
8.	Contactora ( timer ) (M223)	Each	1.00	-	200,000.00	-	200,000.00
9.	Panel Box Type A ( 100 x 80 x t (M109)	Each	1.00	-	250,000.00	-	250,000.00
10.	Foundation Type II for panel (M100)	Each	1.00	-	750,000.00	-	750,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	5,445,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	5,638,809.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	% x D		-	563,880.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	6,202,690.18

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912c

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)c	WORKING
DESCRIPTION OF WORK	:	Panel Type LP-PJU.2	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	188,809.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	-	-	900,000.00	-	-
2.	Amperemeter (M218)	Each	-	-	75,000.00	-	-
3.	Voltmeter (M219)	Each	-	-	75,000.00	-	-
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	-	-	250,000.00	-	-
6.	MCB 3P 50 A (M221)	Each	2.00	-	350,000.00	-	700,000.00
7.	LBS 125 A (M222)	Each	-	-	375,000.00	-	-
8.	Contactor ( timer ) (M223)	Each	-	-	200,000.00	-	-
9.	Panel Box Type B ( 70 x 60 x 3( (M226)	Each	1.00	-	202,500.00	-	202,500.00
10.	Foundation Type III for panel (M225)	Each	1.00	-	550,000.00	-	550,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,772,500.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,966,309.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	<b>% x D</b>		-	196,630.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,162,940.18

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912d

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)d	WORKING
DESCRIPTION OF WORK	:	Panel Type LP-PJU.3	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	10.5000		8,881.38	-	93,254.49
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	219,894.08
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	-	-	900,000.00	-	-
2.	Amperemeter (M218)	Each	-	-	75,000.00	-	-
3.	Voltmeter (M219)	Each	-	-	75,000.00	-	-
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	-	-	250,000.00	-	-
6.	MCB 3P 50 A (M221)	Each	2.00	-	350,000.00	-	700,000.00
7.	LBS 125 A (M222)	Each	-	-	375,000.00	-	-
8.	Contactor ( timer ) (M223)	Each	-	-	200,000.00	-	-
9.	Panel Box Type B ( 70 x 60 x 3( (M226)	Each	1.00	-	202,500.00	-	202,500.00
10.	Foundation Type III for panel (M225)	Each	1.00	-	550,000.00	-	550,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,772,500.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,997,394.08
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	<b>% x D</b>		-	199,739.41
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,197,133.49

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912e

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)e	WORKING
DESCRIPTION OF WORK	:	Panel Type LP-PJU.4	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	188,809.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	1.00	-	900,000.00	-	900,000.00
2.	Amphermeter (M218)	Each	3.00	-	75,000.00	-	225,000.00
3.	Voltmeter (M219)	Each	1.00	-	75,000.00	-	75,000.00
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	1.00	-	250,000.00	-	250,000.00
6.	MCB 3P 50 A (M221)	Each	4.00	-	350,000.00	-	1,400,000.00
7.	LBS 125 A (M222)	Each	1.00	-	375,000.00	-	375,000.00
8.	Contactora ( timer ) (M223)	Each	1.00	-	200,000.00	-	200,000.00
9.	Panel Box Type B ( 70 x 60 x 30 ) (M226)	Each	1.00	-	202,500.00	-	202,500.00
10.	Foundation Type III for panel (M225)	Each	1.00	-	550,000.00	-	550,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	4,497,500.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	4,691,309.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	<b>% x D</b>		-	469,130.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	5,160,440.18

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 912f

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)f	WORKING
DESCRIPTION OF WORK	:	Panel Type LP-PJU.5	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	7.0000		6,394.59	-	44,762.13
<b>SUB TOTAL OF LABOUR</b>						-	188,809.25
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	-	-	900,000.00	-	-
2.	Amperemeter (M218)	Each	-	-	75,000.00	-	-
3.	Voltmeter (M219)	Each	-	-	75,000.00	-	-
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	-	-	250,000.00	-	-
6.	MCB 3P 50 A (M221)	Each	3.00	-	350,000.00	-	1,050,000.00
7.	LBS 125 A (M222)	Each	-	-	375,000.00	-	-
8.	Contactor ( timer ) (M223)	Each	-	-	200,000.00	-	-
9.	Panel Box Type B ( 70 x 60 x 3( (M226)	Each	1.00	-	202,500.00	-	202,500.00
10.	Foundation Type III for panel (M225)	Each	1.00	-	550,000.00	-	550,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	2,122,500.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	2,316,309.25
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	<b>% x D</b>		-	231,630.93
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,547,940.18

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 914

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(12)g	WORKING
DESCRIPTION OF WORK	:	Panel Type LP-PJU.6	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	3.5000		8,508.36	-	29,779.26
2.	Skill labour (L03)	hour	7.0000		7,442.60	-	52,098.20
3.	Electrician (L08)	hour	7.0000		8,881.38	-	62,169.66
4.	Common labour (L02)	hour	10.5000		6,394.59	-	67,143.20
<b>SUB TOTAL OF LABOUR</b>						-	211,190.32
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	KWH Meter (M200)	Each	-	-	900,000.00	-	-
2.	Amperemeter (M218)	Each	-	-	75,000.00	-	-
3.	Voltmeter (M219)	Each	-	-	75,000.00	-	-
4.	Indicator Lamp (M106)	Each	3.00	-	20,000.00	-	60,000.00
5.	Time Switch (M220)	Set	-	-	250,000.00	-	-
6.	MCB 3P 50 A (M221)	Each	2.00	-	350,000.00	-	700,000.00
7.	LBS 125 A (M222)	Each	-	-	375,000.00	-	-
8.	Contactor ( timer ) (M223)	Each	-	-	200,000.00	-	-
9.	Panel Box Type B ( 70 x 60 x 3( (M226)	Each	1.00	-	202,500.00	-	202,500.00
10.	Foundation Type III for panel (M225)	Each	1.00	-	550,000.00	-	550,000.00
11.	Cable G BCC 16 mm2 (M110)	m	3.00	-	45,000.00	-	135,000.00
12.	Grounding (M224)	Ls	1.00	-	125,000.00	-	125,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,772,500.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,988,690.32
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00	<b>% x D</b>		-	198,869.03
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,187,559.35

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 915a

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.13	WORKING
DESCRIPTION OF WORK	:	Traffic Signal Head, Type A	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	1.2048		8,508.36	-	10,251.04
2.	Skill labour (L03)	hour	2.4096		7,442.60	-	17,933.98
3.	Electrician (L08)	hour	2.4096		8,881.38	-	21,400.92
4.	Common labour (L02)	hour	2.4096		6,394.59	-	15,408.65
<b>SUB TOTAL OF LABOUR</b>						-	64,994.59
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.a.	Traffic Signal Head Type A ( 3 ꞑ (M111)	Each	1.00	-	3,145,000.00	-	3,145,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	3,145,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.2048		288,808.64	-	347,962.22
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	352,962.22
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	3,562,956.81
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	356,295.68
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	3,919,252.49

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 914

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(14)	WORKING
DESCRIPTION OF WORK	:	Traffic Signal Head, Type B	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	1.2048		8,508.36	-	10,251.04
2.	Skill labour (L03)	hour	2.4096		7,442.60	-	17,933.98
3.	Electrician (L08)	hour	2.4096		8,881.38	-	21,400.92
4.	Common labour (L02)	hour	2.4096		6,394.59	-	15,408.65
<b>SUB TOTAL OF LABOUR</b>						-	64,994.59
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.a.	Traffic Signal Head Type B ( 2 r (M112)	Each	1.00	-	2,100,000.00	-	2,100,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	2,100,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.2048		288,808.64	-	347,962.22
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	352,962.22
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	2,517,956.81
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	251,795.68
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>					-	2,769,752.49



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 917

**UNIT PRICE ANALYSIS**

PROJECT	:	
No. OF CONTRACT PACKAGE	:	
PACKAGE NAME	:	
PROVINCE / REGENCY / MUNICIPALITY	:	
NO OF PAYMENT ITEM	:	9.1.(17)
DESCRIPTION OF WORK	:	Traffic Signal Pole, Type I
UNIT OF MEASUREMENT	:	Each

		ESTIMATE QUANTITY OF
	:	WORKING
	:	TOTAL PRICE (Rp.)
	:	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Foremen (L04)	hour	0.8032		8,508.36	-	6,834.02	
2.	Skill labour (L03)	hour	0.8032		7,442.60	-	5,977.99	
3.	Electrician (L08)	hour	1.6064		8,881.38	-	14,267.28	
4.	Common labour (L02)	hour	1.6064		6,394.59	-	10,272.43	
<b>SUB TOTAL OF LABOUR</b>						-	37,351.72	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.a.	Traffic Signal Pole Type I (M114)	Each	1.00	-	3,607,500.00	-	3,607,500.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,607,500.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.8032		288,808.64	-	231,974.81	
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	236,974.81	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,881,826.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	388,182.65	
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	4,270,009.18

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 917

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(17)	WORKING
DESCRIPTION OF WORK	:	Traffic Signal Pole, Type I	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Foremen (L04)	hour	0.8032		8,508.36	-	6,834.02	
2.	Skill labour (L03)	hour	0.8032		7,442.60	-	5,977.99	
3.	Electrician (L08)	hour	1.6064		8,881.38	-	14,267.28	
4.	Common labour (L02)	hour	1.6064		6,394.59	-	10,272.43	
<b>SUB TOTAL OF LABOUR</b>						-	37,351.72	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.a.	Traffic Signal Pole Type I (M114)	Each	1.00	-	3,607,500.00	-	3,607,500.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,607,500.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.8032		288,808.64	-	231,974.81	
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	236,974.81	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,881,826.53
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D			-	388,182.65
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	4,270,009.18

**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 918

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.18	WORKING
DESCRIPTION OF WORK	:	Traffic Signal Pole, Type II	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. <u>LABOUR</u></b>								
1.	Foremen (L04)	hour	0.8032		8,508.36	-	6,834.02	
2.	Skill labour (L03)	hour	0.8032		7,442.60	-	5,977.99	
3.	Electrician (L08)	hour	1.6064		8,881.38	-	14,267.28	
4.	Common labour (L02)	hour	1.6064		6,394.59	-	10,272.43	
<b>SUB TOTAL OF LABOUR</b>						-	37,351.72	
<b>B. <u>MATERIALS</u></b>								
1.a.	Traffic Signal Pole Type II (M115)	Each	1.00	-	5,411,250.00	-	5,411,250.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	5,411,250.00	
<b>C. <u>EQUIPMENT</u></b>								
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	0.8032		289,197.65	-	232,287.27	
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	237,287.27	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	5,685,888.99
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	568,588.90
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	6,254,477.89

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9123

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	<b>9.1.(23)</b>	WORKING
DESCRIPTION OF WORK	:	<b>Cable Type 1 ( NYFGBY 2C X 2.5 mm2 )</b>	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	<b>Ln.M</b>	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	0.1750		8,508.36	-	1,488.96
2.	Skill labour (L03)	hour	0.1750		7,442.60	-	1,302.46
3.	Electrician (L08)	hour	0.3500		8,881.38	-	3,108.48
4.	Common labour (L02)	hour	0.1750		6,394.59	-	1,119.05
<b>SUB TOTAL OF LABOUR</b>						-	7,018.95
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cable Type NYFGBY 2C X 2.5 mm	Each	40.00		14,000.00	-	560,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	560,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		5,000.00	-	5,000.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	5,000.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	572,018.95
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>					-	57,201.90
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	629,220.85
<b>G.</b>	<b>WORKING UNIT PRICE ( F/40 )</b>					-	15,730.52

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9125

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	<b>9.1.(25)</b>	WORKING
DESCRIPTION OF WORK	:	<b>Cable Type 3 ( NYFGBY 4C X 10 mm2 )</b>	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	<b>Ln.M</b>	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE	
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)
<b>A.</b>	<b><u>LABOUR</u></b>						
1.	Foremen (L04)	hour	0.1750		8,508.36	-	1,488.96
2.	Skill labour (L03)	hour	0.1750		7,442.60	-	1,302.46
3.	Electrician (L08)	hour	0.3500		8,881.38	-	3,108.48
4.	Common labour (L02)	hour	0.1750		6,394.59	-	1,119.05
<b>SUB TOTAL OF LABOUR</b>						-	7,018.95
<b>B.</b>	<b><u>MATERIALS</u></b>						
1.	Cable Type NYFGBY 4C X 10 r (M117)	Each	40.00	-	49,000.00	-	1,960,000.00
<b>SUB TOTAL FOR MATERIALS</b>						-	1,960,000.00
<b>C.</b>	<b><u>EQUIPMENT</u></b>						
1.	Tools	Ls	1.0000		500.00	-	500.00
<b>SUB TOTAL FOR EQUIPMENT</b>						-	500.00
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>					-	1,967,518.95
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>		10.00 % x D			-	196,751.90
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>					-	2,164,270.85
<b>G.</b>	<b>WORKING UNIT PRICE ( F/40 )</b>					-	54,106.77

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9127

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	<b>9.1.(27)</b>	WORKING
DESCRIPTION OF WORK	:	<b>Cable Type 5 ( NYFGBY 4C X 25 mm2 )</b>	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	<b>Ln.M</b>	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Foremen (L04)	hour	0.1750		8,508.36	-	1,488.96	
2.	Skill labour (L03)	hour	0.1750		7,442.60	-	1,302.46	
3.	Electrician (L08)	hour	0.3500		8,881.38	-	3,108.48	
4.	Common labour (L02)	hour	0.1750		6,394.59	-	1,119.05	
<b>SUB TOTAL OF LABOUR</b>						-	7,018.95	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Cable Type NYFGBY 4C X 25 r (M118)	Each	40.00		95,000.00	-	3,800,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	3,800,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	500.00	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	3,807,518.95
<b>E.</b>	<b>OVERHEAD &amp; PROFIT</b>			10.00 % x D		-	380,751.90	
<b>F.</b>	<b>UNIT PRICE ( D + E )</b>						-	4,188,270.85
<b>G.</b>	<b>WORKING UNIT PRICE ( F/40 )</b>						-	104,706.77

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9111

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	<b>9.1.(29)</b>	WORKING
DESCRIPTION OF WORK	:	<b>Cable Type 7 ( NYFGBY 4C X 50 mm2 )</b>	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	<b>Ln.M</b>	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A.</b>	<b><u>LABOUR</u></b>							
1.	Foremen (L04)	hour	0.1750		8,508.36	-	1,488.96	
2.	Skill labour (L03)	hour	0.1750		7,442.60	-	1,302.46	
3.	Electrician (L08)	hour	0.3500		8,881.38	-	3,108.48	
4.	Common labour (L02)	hour	0.1750		6,394.59	-	1,119.05	
<b>SUB TOTAL OF LABOUR</b>						-	7,018.95	
<b>B.</b>	<b><u>MATERIALS</u></b>							
1.	Cable Type NYFGBY 4C X 50 r (M119)	Each	40.00		165,000.00	-	6,600,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	6,600,000.00	
<b>C.</b>	<b><u>EQUIPMENT</u></b>							
1.	Tools	Ls	1.0000		500.00	-	500.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	500.00	
<b>D.</b>	TOTAL PRICE FOR LABOUR, MATERIALS & EQUIPMENT ( A + B + C )						-	6,607,518.95
<b>E.</b>	OVERHEAD & PROFIT			10.00 % x D		-	660,751.90	
<b>F.</b>	UNIT PRICE ( D + E )						-	7,268,270.85
<b>G.</b>	WORKING UNIT PRICE ( F/40 )						-	181,706.77

**THE NORTH JAVA CORRIDOR FLYOVER  
SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design  
BILL OF QUANTITY - MERAK FLYOVER  
(ENGINEER ESTIMATE)**

Analisa 9140

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(40)	WORKING :
DESCRIPTION OF WORK	:	Removal of Lighting Pole to Stockpile	TOTAL PRICE (Rp.) :
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST :

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. <u>LABOUR</u></b>								
1.	Foremen (L04)	hour	2.0080		8,508.36	-	17,085.06	
2.	Skill labour (L03)	hour	4.0161		7,442.60	-	29,889.96	
3.	Electrician (L08)	hour	4.0161		8,881.38	-	35,668.19	
4.	Common labour (L02)	hour	8.0321		6,394.59	-	51,362.17	
<b>SUB TOTAL OF LABOUR</b>						-	134,005.38	
<b>B. <u>MATERIALS</u></b>								
1.	Cable Type NYFGBY 4C X 16 r (M117)	Each	60.0000	-	49,000.00	-	2,940,000.00	
2.	Foundation (M99)	Each	1.0000	-	1,080,000.00	-	1,080,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	4,020,000.00	
<b>C. <u>EQUIPMENT</u></b>								
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	2.0080		288,808.64	-	579,937.03	
2.	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	584,937.03	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	4,738,942.41
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	473,894.24
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	5,212,836.65



**THE NORTH JAVA CORRIDOR FLYOVER**  
**SIX FLYOVER CONSTRUCTION PROJECT - Basic - Detailed Engineering Design**  
**BILL OF QUANTITY - MERAK FLYOVER**  
**(ENGINEER ESTIMATE)**

Analisa 9141

**UNIT PRICE ANALYSIS**

PROJECT	:		
No. OF CONTRACT PACKAGE	:		
PACKAGE NAME	:		
PROVINCE / REGENCY / MUNICIPALITY	:		ESTIMATE QUANTITY OF
NO OF PAYMENT ITEM	:	9.1.(41)	WORKING
DESCRIPTION OF WORK	:	Removal of Lighting Signal to Stockpile	TOTAL PRICE (Rp.)
UNIT OF MEASUREMENT	:	Each	% TO PROJECT COST

NO.	COMPONENT	UNIT	QUANTITY ESTIMATE	UNIT PRICE		TOTAL PRICE		
				FOREIGN (Rp.)	LOCAL (Rp.)	FOREIGN (Rp.)	LOCAL (Rp.)	
<b>A. <u>LABOUR</u></b>								
1.	Foremen (L04)	hour	1.0040		8,508.36	-	8,542.53	
2.	Skill labour (L03)	hour	2.0080		7,442.60	-	14,944.98	
3.	Electrician (L08)	hour	2.0080		8,881.38	-	17,834.10	
4.	Common labour (L02)	hour	4.0161		6,394.59	-	25,681.08	
<b>SUB TOTAL OF LABOUR</b>						-	67,002.69	
<b>B. <u>MATERIALS</u></b>								
1	Cable	Ln.M	40.0000		35,000.00	-	1,400,000.00	
<b>SUB TOTAL FOR MATERIALS</b>						-	1,400,000.00	
<b>C. <u>EQUIPMENT</u></b>								
1.	Flat Bed Truck with Crane 5 Tc (E31)	hour	1.0040		288,808.64	-	289,968.51	
2	Tools	Ls	1.0000		5,000.00	-	5,000.00	
<b>SUB TOTAL FOR EQUIPMENT</b>						-	294,968.51	
<b>D.</b>	<b>TOTAL PRICE FOR LABOUR, MATERIALS &amp; EQUIPMENT ( A + B + C )</b>						-	1,761,971.20
<b>E.</b>	<b>OVERHEAD &amp; PROFIT 10.00 % x D</b>						-	176,197.12
<b>F.</b>	<b>WORKING UNIT PRICE ( D + E )</b>						-	1,938,168.32

**RELOCATION & PROTECTION  
OF EXISTING UTILITIES**

## COST ESTIMATE FOR UTILITY PROTECTION AND RELOCATION

### MERAK FLYOVER

No.	Description	Unit	Estimate Quantity	Unit Price ( Rp. )	Amount ( Rp. )	Remarks
<b>ABOVE GROUND</b>						
1	Relocation of Existing Electricity ( PLN ), Pole medium Voltage	Each	2.00	11,046,721.49	22,093,442.98	
2	Relocation of Existing Electricity ( PLN ), Pole Low Voltage	Each	5.00	10,397,304.64	51,986,523.20	
3	Electric Cable Above Ground	Ln.M	1335.00	247,472.63	330,375,967.39	445 m x 3
4	Relocation of Existing Telephone Utility pole	Each	18.00	5,205,215.09	93,693,871.62	
5	Telephone Cable Above Ground	Ln.M	1460.00	123,392.63	180,153,246.74	730 m x 2
<b>UNDER GROUND</b>						
6	Electric Cable Optic Relocation	Ln.M	31.00	2,189,790.80	67,883,514.65	
7	Under Ground Cable Duct with PVC dia.4" ( include telephone and electric cable )	Ln.M	85.00	950,296.13	80,775,171.32	
			<b>TOTAL COST</b>		<b>826,961,737.89</b>	

## NORTH JAVA CORIDOR PROJECT

### UNIT PRICE ANALYSIS

#### Relocation of Existing Electricity ( PLN ), Pole medium Voltage

No. of Pay Item	:	Quantity Product/day :	1.00
Kind of work	:	Relocation of Existing pole ( PLN )	( EACH )
Unit	:	Each	

No.	Component	Unit	Estimate Quantity	Unit Price (Rp.)	Total price (Rp.)	Remarks
<b>A</b>	<b>LABOUR</b>					
	- Foremen	hour	7.00	8,508.36	59,558.52	
	- Skill labour	hour	14.00	7,442.60	104,196.40	
	- Common labour	hour	28.00	6,394.59	179,048.52	
	- Electrician	hour	7.00	8,881.38	62,169.66	
	<b>Sub Total</b>				<b>404,973.10</b>	
					-	
<b>B</b>	<b>MATERIALS</b>					
	- PLN Pole & Accessories ( med vol )	Each	1.00	3,900,360.00	3,900,360.00	
	- PLN Cable ( 3 x 120 mm2 )	Lin. M	12.00	290,000.00	3,480,000.00	
	<b>Sub Total</b>				<b>7,380,360.00</b>	
<b>C</b>	<b>EQUIPMENT</b>					
	- Flat Bed Truck & with Crane 5 T	hour	2.00	289,197.65	578,395.30	
	- Tools	ls	1.00	5,000.00	5,000.00	
	- Mobilization and O/P	ls	1.00	1,673,745.68	1,673,745.68	
	<b>Sub Total</b>				<b>2,257,140.98</b>	
	<b>Amount = (Q)</b>				<b>10,042,474.08</b>	
	Overhead & Profit 10% x (Q)				1,004,247.41	
	<b>TOTAL = (B)</b>				<b>11,046,721.49</b>	
	<b>UNIT PRICE</b>				<b>11,046,721.49</b>	



# NORTH JAVA CORIDOR PROJECT

## UNIT PRICE ANALYSIS Relocation of Existing Telkom Utility Pole

No. of Pay Item	:	Quantity Product/day :	1.00
Kind of work	:	Relocation of Existing Telkom Utility pole	( EACH )
Unit	:	Each	

No.	Component	Unit	Estimate Quantity	Unit Price (Rp.)	Total price (Rp.)	Remarks
<b>A</b>	<b>LABOUR</b>					
	- Foremen	hour	7.00	8,508.36	59,558.52	
	- Skill labour	hour	7.00	7,442.60	52,098.20	
	- Common labour	hour	14.00	6,394.59	89,524.26	
	- Electrician	hour	7.00	8,881.38	62,169.66	
	<b>Sub Total</b>				<b>263,350.64</b>	
					-	
<b>B</b>	<b>MATERIALS</b>					
	- STK Telkom pole & Accessories	Each	1.00	2,040,000.00	2,040,000.00	
	- Telkom Cable	Lin M	12.00	76,000.00	912,000.00	
	<b>Sub Total</b>				<b>2,952,000.00</b>	
<b>C</b>	<b>EQUIPMENT</b>					
	- Flat Bed Truck & with Crane 5 T	hour	2.50	289,197.65	722,994.13	
	- Tools	ls	1.00	5,000.00	5,000.00	
	- Mobilization and O/P	ls	1.00	788,668.95	788,668.95	
	<b>Sub Total</b>				<b>1,516,663.08</b>	
	<b>Amount = (Q)</b>				<b>4,732,013.72</b>	
	Overhead & Profit 10% x (Q)				473,201.37	
	<b>TOTAL = (B)</b>				<b>5,205,215.09</b>	
	<b>UNIT PRICE</b>				<b>5,205,215.09</b>	

NORTH JAVA CORIDOR PROJECT

**UNIT PRICE ANALYSIS**  
**Electric Cable Upper Ground**

No.of Pay Item	:	Quantity Product/day :	40.00
Kind of work	:	Electric Cable upper Ground 3 x 70 mm2	( Ln.M )
Unit	:	Ln.M	

No.	Component	Unit	Estimate Quantity	Unit Price (Rp.)	Total price (Rp.)	Remarks
<b>A</b>	<b>LABOUR</b>					
	- Foremen	hour	7.00	8,508.36	59,558.52	
	- Skill labour	hour	14.00	7,442.60	104,196.40	
	- Common labour	hour	28.00	6,394.59	179,048.52	
	- Electrician	hour	7.00	8,881.38	62,169.66	
	<b>Sub Total</b>				<b>404,973.10</b>	
					-	
<b>B</b>	<b>MATERIALS</b>					
	- Electric Cable 3x70 mm2 and Accesories	Lin.M	40.00	170,000.00	6,800,000.00	
	<b>Sub Total</b>				<b>6,800,000.00</b>	
<b>C</b>	<b>EQUIPMENT</b>					
	- Flat Bed Truck & with Crane 5 T	hour	1.00	289,197.65	289,197.65	
	- Tools	ls	1.00	5,000.00	5,000.00	
	- Mobilization and O/P	ls	1.00	1,499,834.15	1,499,834.15	
	<b>Sub Total</b>				<b>1,794,031.80</b>	
	<b>Amount = (Q)</b>				<b>8,999,004.90</b>	
	<b>Overhead &amp; Profit 10% x (Q)</b>				<b>899,900.49</b>	
	<b>TOTAL = (B)</b>				<b>9,898,905.39</b>	
	<b>UNIT PRICE</b>				<b>247,472.63</b>	





## NORTH JAVA CORIDOR PROJECT

### UNIT PRICE ANALYSIS Under Ground Duct with PVC dia 4"

No. of Pay Item	:	Quantity Product/day :	10.00
Kind of work	:	Under Ground Duct with PVC dia 4"	( Ln.M )
Unit	:	Ln.M	

No.	Component	Unit	Estimate Quantity	Unit Price (Rp.)	Total price (Rp.)	Remarks
<b>A</b>	<b>LABOUR</b>					
	- Foremen	hour	7.00	8,508.36	59,558.52	
	- Skill labour	hour	7.00	7,442.60	52,098.20	
	- Common labour	hour	28.00	6,394.59	179,048.52	
	- Electrician	hour	7.00	8,373.37	58,613.59	
	<b>Sub Total</b>				<b>349,318.83</b>	
					-	
<b>B</b>	<b>MATERIALS</b>					
	- PVC dia 4 "	m <sup>3</sup>	10.00	93,000.00	930,000.00	
	- Electric Cable(Twisted 3x70 +50 mm)	m	30.00	175,000.00	5,250,000.00	
	- Telephone Cable ( STEL-K-001)	m	20.00	81,225.00	1,624,500.00	
	<b>Sub Total</b>				<b>7,804,500.00</b>	
<b>C</b>	<b>EQUIPMENT</b>					
	- Excavator 80 - 140 HP	hour	1.00	341,144.30	341,144.30	
	- Tools	ls	1.00	5,000.00	5,000.00	
	- Mobilization and O/P	ls	1.00	139,092.63	139,092.63	
	<b>Sub Total</b>				<b>485,236.93</b>	
	<b>Amount = (Q)</b>				<b>8,639,055.76</b>	
	Overhead & Profit 10% x (Q)				863,905.58	
	<b>TOTAL = (B)</b>				<b>9,502,961.33</b>	
	<b>UNIT PRICE</b>				<b>950,296.13</b>	

## NORTH JAVA CORIDOR PROJECT

### UNIT PRICE ANALYSIS Relocation of Fiber Optic Cable

No.of Pay Item	:	Quantity Product/day :	31.00
Kind of work	:	Relocation of Fiber Optic Cable	( Ln.M )
Unit	:	Ln.M	

No.	Component	Unit	Estimate Quantity	Unit Price (Rp.)	Total price (Rp.)	Remarks
<b>A</b>	<b>LABOUR</b>					
	- Foremen	hour	7.00	9,472.88	66,310.16	
	- Skill labour	hour	14.00	7,273.85	101,833.90	
	- Common labour	hour	28.00	6,174.34	172,881.52	
	- Electrician	hour	7.00	8,373.37	58,613.59	
	<b>Sub Total</b>				<b>399,639.17</b>	
					-	
<b>B</b>	<b>MATERIALS</b>					
	- Jointing ( include manhole )	Each	2.00	25,000,000.00	50,000,000.00	
	<b>Sub Total</b>				<b>50,000,000.00</b>	
<b>C</b>	<b>EQUIPMENT</b>					
	- Excavator 80 - 140 HP	hour	3.00	340,755.29	1,022,265.87	
	- Tools	ls	1.00	5,000.00	5,000.00	
	- Mobilization and O/P	ls	1.00	10,285,381.01	10,285,381.01	
	<b>Sub Total</b>				<b>11,312,646.88</b>	
	<b>Amount = (Q)</b>				<b>61,712,286.05</b>	
	Overhead & Profit 10% x (Q)				6,171,228.60	
	<b>TOTAL = (B)</b>				<b>67,883,514.65</b>	
	<b>UNIT PRICE</b>				<b>2,189,790.80</b>	