APPENDIX

Appendix 1

INPUT DATA

FOR ESTIMATION OF THE PRODUCER'S SURPLUS BENEFIT

PRV. : LAMPUNG KAB. : LAMPUNG TENGAH SURVEY YEAR: 1984

Code No.	KECAMATAN NAME	CULTIVATED AREA : (PA)	YIELD RATE : (Y)	FARMER'S POPULATION : (AP)	CIRCULATED COMMODITY : (PG)
01	KALIREJO	2,929	2.79	-	0
02	BANGUN REJO	6,165	3.13	-	0
03	PADANG RATU	13,356	3.32	1,400	0
04	GUNUNG SUGIH	16,523	0.98	7,600	0
05	TRI MULYO	3,813	3.75	-	0
06	METRO	8,935	3.25	-	0
07	BATANG HARI	6,457	4.19	-	0
08	SEKAMPUNG	7,986	4.10	-	0
09	JABUNG	15,938	2.63	-	0
10	LAB. MERINGGAI	9,963	2.54	1,120	0
11	WAY JEPARA	4,756	3.55	-	0
12	SUKADANA	12,122	4.36	-	0
13	PEKALONGAN	4,329	3.14	-	0
14	PUNGGUR	10,002	3.87	-	0
15	TERB. BESAR	16,937	2.75	24,400	0
16	SEPUTIH RAHMAN	9,162	3.23	-	0
17	RAMAN UTARA	5,015	2.63	-	0
18	PURBALINGGA	7,982	0.71	-	0
19	RUMBIA	6,815	2.98	1,470	0
20	SEPUTIH BANYAK	5,685	1.12	-	0
21	SEPUTIH MATARAM	5,546	2.99	-	0
22	SEPUTIH SURABAYA	7,034	0.00	-	0
23	GUNUNG BALAK	3,934	0.00	-	0

	r_1	r_2	r_3	r_4
ANNUAL AVERAGE % GROWTH RATE	2.7	3.4	0	4.0

FARMER'S CONSUMPTION : (Cp)	NON-AGRO REQUIRMENT : (NG)
0.19 Ton/head/year	1.98 Ton/ton

	SEDAN	BUS	TRUCK	MOTOR CYCLE
RATE OF EACH VEHICLE TYPE %	11.19	0.26	5.62	82.93

AVERAGE FREIGHT TONAGE	0.9 Ton/Truck

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Kalirejo	Kalidadi	6	Kalirejo	6	
02 a	Kalidadi	Sendang Agung	4	Kalirejo	4	I.L.N No. 2
02 b	Way Langsep	Sendang Agung	10	Kalirejo	10	I.L.N No. 172
03	Sendang Agung	Sendang Mukti	5	Kalirejo	5	
04	Sendang Mukti	Payung Rejo	4	Kalirejo	2	
				Padang ratu	2	
05	Negri Kepa-yungan	Payung Rejo	3	Padang ratu	3	
06	Payung Rejo	Bandarsari	8	Padang ratu	8	
07	Bangun Rejo	Sidomulyo	7	Bangun Rejo	7	
08						
09	Sidokerto	Sidobinangun	10	Punggur	10	
10	Harapan Rejo	Sri Margo Ra-hayu	8	Bangun Rejo	1	
				Seputih Raman	7	
11						
12	Untoro	Simbar Wari-ngin	8	Trimurjo	8	
13	Simbar Wari-ngin	Liman Binawi	3	Trimurjo	3	
14						
15	Rukti Endah	Rantau Jaya	15	Seputih Raman	4	
				Raman Utara	11	
16	Raman Utara	Seputih Raman	17	Seputih Raman	6	13
				Raman Utara	11	
17	Purbolinggo	Raman Utara	15	Raman Utara	11	
				Purbolinggo	4	
18	Hadi Mulyo	Wates	17	Gunung Sugih	1	
				Trimuljo	15	
				Metro	1	
19	Hadi Mulyo	Pekalongan	13	Metro	5	
				Pekalongan	4	
				Punggur	4	
20	KBH XIII	Bale Rejo	8	Batanghari	8	

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

I.L.N = Input Link Number

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
21	Purnomo Tunggal	Poncowati	10	Terbanggi Besar	10	
22	KBH XII	Pekalongan	9	Batanghari	4.5	
				Pekalongan	4.5	
23	Restu Baru	Swastika Buana	9	Rumbia	7	
				Seputih Banyak	2	
24	Gunung Sugih Kecil	Asahan	12	Jabung	12	
25	Sekampung	Negerikaton	14	Sekampung	10	
				Sukadana	4	
26	Suka negara	Simp. Sri Pendowo	12	Bangun Rejo	12	
27	Sri Pendowo	Sri Katon	9	Bangun Rejo	6	
				Padang ratu	3	
28	Panglong	Purwodadi	6	Metro	1	
				Trimurjo	5	
29	Ganjar Agung	Simbar Waringin	6	Trimurjo	5	
				Metro	1	
30	Banjar sari	Purwodadi	7	Metro	6	
				Trimurjo	1	
31	Trimurjo	Sukajawa	7	Gn Sugih	5	
				Trimurjo	2	
32	Notoharjo	Sukajawa	6	Gn. Sugih	5	
				Trimurjo	1	
33	Pujokerto	Pujodadi	3	Gn. Sugih	3	
34	Bajarejo	Balerejo	9	Batanghari	9	
35	Mulyo Jati	Margorejo	4	Metro	4	
36	Ganjar Agung	Margorejo	9	Metro	9	
37	Adi Purwo	Liman Benawi	4	Trimurjo	4	
38	Bulu sari	Pujokerto	17	Gn. Sugih	17	
39	Sukajadi	Wates	4	Gn. Sugih	4	
40	Ngesti Rahayu	Manggungan	6	Gn. Sugih	4	
				Punggur	2	
40 a	Punggur	Gn.Sugih	11	Gn. Sugih	4	I.L.N No. 173
				Punggur	7	
41	Hadimulyo	Pekalongan	8	Metro	7	
				Pekalongan	1	
42	Karang Rejo	Yosodadi	3	Metro	3	
43	Karang Rejo	Wonosari	7	Metro	2	
				Pekalongan	5	

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

I.L.N = Input Link Number

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
43 a	Dam Rahman	Purwosari	8	Pekalongan	8	I.L.N No. 174
43 b	Saptomulyo	Dam Rahman	17	Pekalongan	15	I.L.N No. 175
				Punggur	2	
44	Bandarsari	Sri Tejo Kencono	10	Pekalongan	6	
				Punggur	4	
45	Trisnomulyo	Sri Tejo Kencono	4	Sukadana	3	
				Punggur	1	
46	Sidomulyo	Kedaton	7	Sukadana	3.5	
				Punggur	3.5	
47	Wonosari	Kalibening	8	Pekalongan	8	
48	Jojog	Tulungrejo	7	Sukadana	1.5	
				Pekalongan	5.5	
49	Rancang Purwo	Adirejo	9	Pekalongan	9	
50						
51	Gondang Rejo	BD. 32	10	Sukadana	2	
				Pekalongan	8	
52						
53	Rama Indra	Rukti Harjo	7	Seputih Raman	7	
54	Sri Tejo Kencono	Sumber Rejo	4	Punggur	4	
55	Totokaton	Gotong Royong	10	Punggur	1	
				Gn.Sugih	9	
56	Sidobinangun	Rumbia	13	Seputih banyak	13	
57	Sribasuki	Sribusono	10	Seputih Banyak	10	
58	Metro	Marga Jaya	16	Metro	16	
59	Yosodadi	Baja Rejo	7	Metro	1	
				Batanghari	6	
59 b	BD 41	Bumi Harjo	3	Batanghari	3	I.L.N No. 176
60	Purbolinggo	Tanjung Kencono	6	Purbolinggo	6	
61	Sekampung	Margo Mulyo	4	Sekampung	4	
62	Rejo Asri	Bangun Rejo	15	Gn. Sugih	7.5	
				Seputih Raman	7.5	
63	Raman Utara	Taman Sari	6	Raman Utara	3	
				Purbolinggo	3	

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

I.L.N = Input Link Number

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
64	Banjar Agung	Uman Agung	9	Seputih Mataram	9	
65	Jati Datar	Terbanggi Ilir	9	Seputih Mataram	9	
66	Sukaraja Nuban	Rejobinangun	9	Sukadana Raman Utara	1 8	
67	Ramayana I	Ramayana II	9	Seputih Raman	9	
68						
69	Jati Datar	Darma Agung	8	Seputih Mataram	8	
70	Sumber baru	Sumber bahagia	6	Seputih banyak	6	
71	Wana	Batu badak	20	Jabung Gunung balak Way Jepara	9 3 8	
72	Lab. Ratu	Klahang	6	Way Jepara	6	9
73	Braja Sakti	Klahang	11	Way Jepara	11	
74	Tanjung Pandan	Bangun Rejo	7	Bangun Rejo	7	10
75	Tulung Pasih	Mandala Sari	9	Labuhan Maringgai	9	
76	Taman Endah	Taman Bogo	6	Purbolinggo	6	
77	Kedaton	Rejobinangun	8	Raman Utara Sukadana	1 7	
78	Rama Nirwana	Buyut Baru	11	Seputih Raman	11	
79	Gedong sari	Padang Ratu	20	Padang Ratu	20	
80	Poncowarno	Kalidadi	8	Kalirejo	8	
81	Sribasuki	Poncowarno	7	Kalirejo	7	
82	Tanjung Ratu	Gunung Batinudik	29	Terbanggi Besar	29	
83	Pulau Payung	Lempuyang Bandar	8	Terbanggi Besar	8	
84	Seputih Banyak	Rantau Fajar	17	Raman Utara Seputih Banyak	7 10	14
85	Sakti Buana	Restu Baru	6	Rumbia Seputih Banyak	4 2	
86	Taman Endah	Sukadana	12	Sukadana Purbolinggo	8.5 3.5	
87	Srikencono	Tanjung Kencono	20	Purbolinggo Rumbia	7 13	

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
88	Tambahdadi	Muara Jaya	12	Sukadana Purbolinggo	11 1	
89	Braja Sakti	Braja Luhur	18	Way.Jepara	18	
90						
91						
92	Suka Jawa	Rengas	13	Gn.Sugih	13	
93	Sri Basuki	Pancabakti	20	Kalirejo Bangun Rejo	9 11	
94						
95						
96	Punggur	Bangun Rejo	12	Punggur Gn.Sugih	9.5 2.5	
97						
98	Setia bakti	Swastika Buana	6	Seputih Banyak	6	
99	Sumberejo	Mesgandung sari	12	Jabung Gn.Balak	6 6	
100	Tanjungkari	Pakuan Aji	30	Sukadana	30	8
101						
102	Retno Basuki	Sri Kencono	12	Rumbia	12	
103	Bandar Jaya	Bumi Aji	25	Padang ratu Terb.Besar	5 20	5
104	Tanjung Jaya	Tanjung Pandan	7	Bangun Rejo	7	
105	Seputih Mataram	Wirata Agung	8	Sept.Mataram	8	
106	Girik Lopomulyo	Sidodadi	4	Sekampung	4	12
107	Dono Arum	Banjar Ratu	6	Terbanggi Besar	6	
108	Taman Asri	Negara Ratu	10	Sukadana Purbolinggo	8	
109						
110	Bungkuk	Girimulyo	5	Jabung	5	
111	Karang Endah	Nambah Dadi	7	Terbanggi Besar	7	

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
112	Mataram Marga	Way Areng	6	Sukadana	6	
113	Sumbersari	Margorejo	3	Tri Murjo	1	
				Metro	2	
114	Rantau Jaya Udik	Susukan Baru	4	Sukadana	4	
115	Seputih Surabaya	Mataram Ilir	5	Sukadana	5	7
116	Ps.Sukadana	Pedukuhan	7	Sukadana	7	
117	Simpang Agung	Harapanrejo	11	Terbanggi Besar	11	
118	Rejo Asri	Harapan Baru	8	Gunung Sugih	0.2	
				Seputih Raman	7.8	
119	Selusuban	Simpang Agung	15	Terbanggi Besar	11	
120	Lempuyang Bandar	Tanjung Anom	7	Terbanggi Besar	7	
121	Talang Tengah	Simpang Padang Ratu	20	Padang Ratu	20	
122	Dalam Kota	Metro	70	Metro	70	Dalam Kota
123	Margo Mulya	Sumbersari	6	Sekampung	6	
124	Taman Endah	Taman Fajar	3	Purbolinggo	3	11
125	Rama Gunawan	Rejo Asri	6	Seputih Raman	6	
126	Dalam Kota	Gunung Sugih	3	Gunung Sugih	3	Dalam Kota
127						
128	Dalam Kota	Bangunrejo	3	Bangun Rejo	3	Dalam Kota
129	Sadar Sriwijaya	Sribawono	5	Labuhan Maringgai	5	
130	Jl.Trans.Polri	Gedung Wani Timur	4	Sukadana	4	
131						
132	Payung Raharjo	Sadar Sriwijaya	9	Jabung	2.5	
				Gunung salak	6.5	
133	Lab.Maringgai	Penet	15	Lab.Maringgai	15	4
134	Kota gajah	Purwosari	4	Sukadana	3	
				Punggur	1	
135						

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
136						
137						
138	Darma Agung	Wirata Agung	3	Seputih Mataram	3	
139						
140						
141	Srikaton	Bumi Harjo	12	Rumbia	7	
				Sept.Surabaya	5	
142	Sept.Surabaya	Bumi Harjo	5	Sept.Surabaya	5	
143						
144	Rajabasabaru	Sriwangi	9	Lab.Maringgai	7	
				Way Jepara	2	
145	Purbolinggo	Tambah Luhur	5	Purbolinggo	5	
146						
147						
148						
149	Lab.Maringgai	Kuala	3	Lab.Maringgai	3	
150						
151	Dalam Kota	Padang Ratu	3	Padang Ratu	3	Dalam Kota
152	Sri Mulyo	Talang Tengah	9	Padang Ratu	9	
153						
154	Dalam Kota	Bandar Jaya		Terbanggi Besar		Dalam Kota
155	Dalam Kota	Sept.Banyak		Seputih Banyak		Dalam Kota
156	Jbt.Serong	Way Areng	11	Gunung balak	6	
				Lab.Maringgai	5	
157	Gayau Sakti	Purnomo Tunggal	8	Terbanggi Besar	8	
158	Banjar Ratu	Banjar Kertorahayu	4	Terbanggi Besar	4	
159	Dalam Kota	Sept.Raman	4	Seputih Raman	4	Dalam Kota

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

ROAD LINK DATA

PROVINCE : Lampung

KABUPATEN: Lampung Tengah

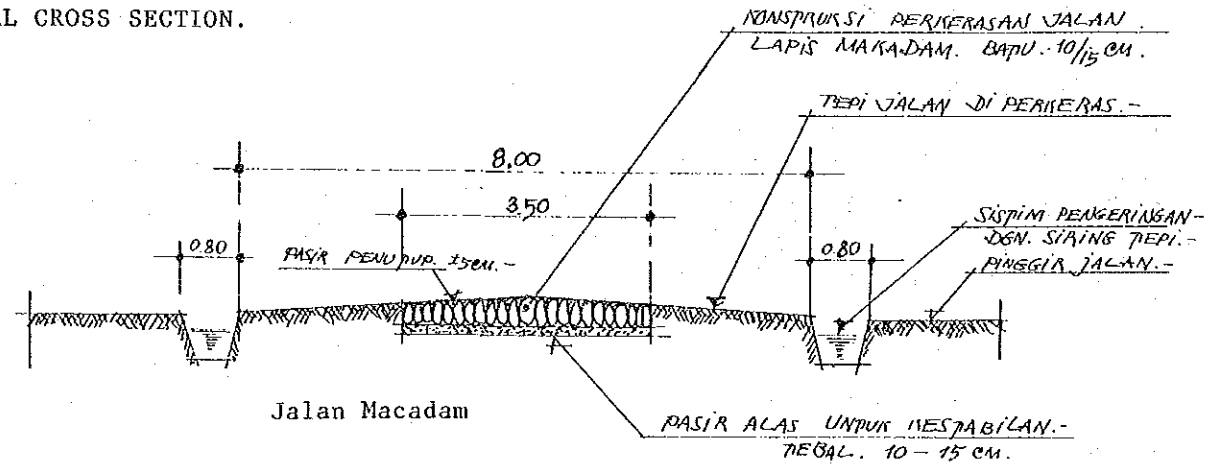
LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
160	Dalam Kota	Raman Utara	4	Raman Utara	4	Dalam Kota
161	Ruktisediyo	Raman Utara	8	Raman Utara	8	
162	Dalam Kota	Purbolinggo	4	Purbolinggo	4	Dalam Kota
163	Totomulyo	Tanjung Intan	5	Purbolinggo	5	
164	Sukadana	Kampung baru	11	Sukadana	11	
165	Dalam Kota	Sukadana	8	Sukadana	8	Dalam Kota
166	Sekampung	Bulu Panggung	8	Batanghari Sekampung Sukadana	3 1 4	
167	Rajabasalama	Transpram	10	Way Jepara Sukadana	5 5	
168	Lab.Ratu	Pancasila	6	Way.Jepara	6	
169	Donomulyo	Sekampung	6	Sekampung Sukadana	5.5 0.5	
170	Dalam Kota	Lab.Maringgai	4	Lab.Maringgai	6	Dalam Kota
171	Dalam Kota	Jabung	3	Jabung	3	Dalam Kota

Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

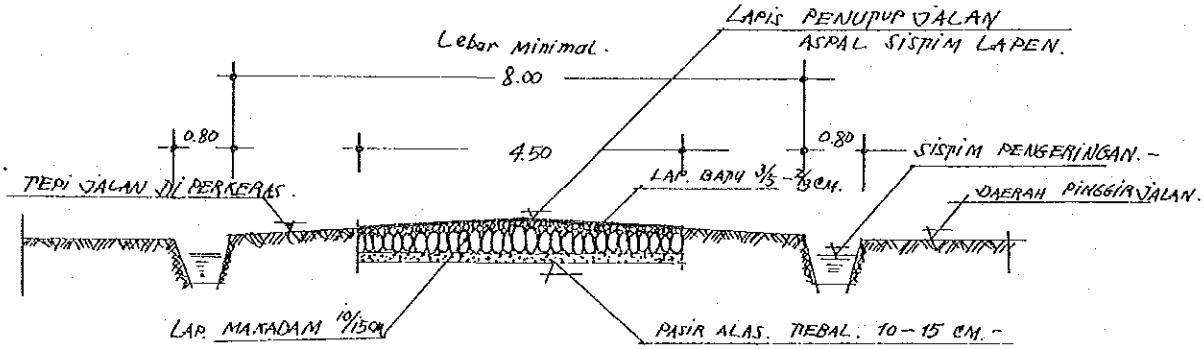
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?
Kriteria Perencanaan yang dipakai pada program penanganan jalan Kabupaten, baik untuk jalan lama maupun pembangunan baru.

Please draw the Typical Cross Section of the Kabupaten Road.
Buat gambar dan penjelasan dari: Typical cross section yang dipakai pada program penanganan jalan selama ini (baik untuk jalan lama, maupun pembangunan baru)

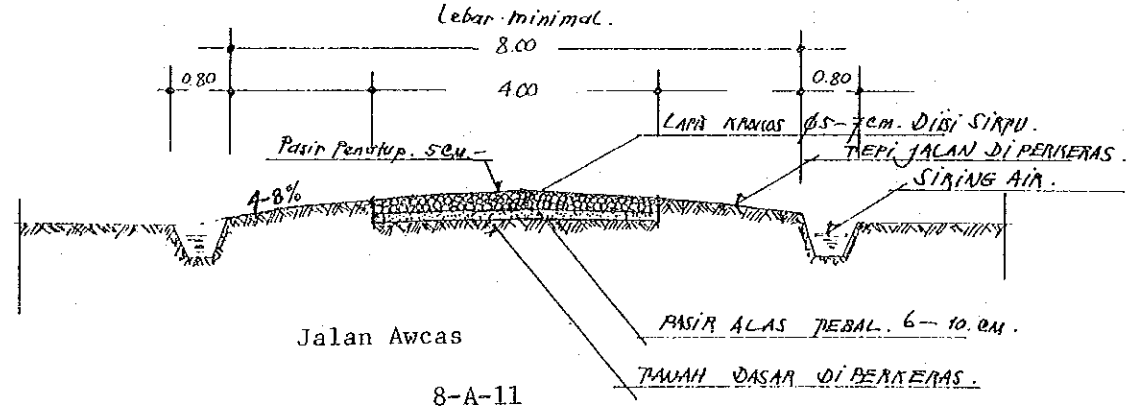
TYPICAL CROSS SECTION.



Jalan Macadam



Jalan Asphalt Seal



Jalan Awcas

PROPINSI: Lampung

E-03-(1)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
18	Untoro - Wates	3,5	Lapen	5	49.272	
19	Hadimulyo - Purwosari	3,5	Macadam	2.5	27.892	
122	Dalam kota - Metro	3,5	Lapen	2.359	55.859	
20	Balai Kencana	3,5	Macadam	3.25	41.782	
21	Poncowati - Poncowati	3,5	Lapen	3	29.909	
05	Negeri Kepayungan-Sendang Agung	3,5	Macadam	2.1	29.349	
22	Pekalongan-KBH XII Batang hari	3,5	Macadam	3.6	42.883	
122	Dalam Kota Metro	3,5	Lapen	4.2	55.556	
100	Tanjung Kari-Pakuan Aji	3,5	Lapen	7	35.314	
122	Dalam Kota Sukadana	3,5	Lapen	2.5	28.637	
165	Dalam Kota Sukadana	3,5	Lapen	2.1	20.596	
124	Dalam Kota Batanghari	3,5	Macadam	0.75	16.373	
186	Dalam Kota Simbarwaringin	3,5	Macadam	1.4	21.292	
122	Dalam Kota Metro	3,5	Macadam	3,5	35.039	
19	Purwosari-Pekalongan	3,5	Macadam	4.5	45.933	
08	Hadimulyo - Pekalongan	6	Beton	8 m	16.133	
165	Sukadana-L.Panasya'ra Kamtan	4.9	Beton	14 m	19.578	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AMCAS / kerikil / japat

PROPINSI: Lampung

E-03-(1)

KABUPATEN: Lampung Tengah

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
08	Adimulyo - Pekalongan	8	Beton	8 m	22.706	
59	Yosodadi - Banjarejo	8	Beton	18 m	46.477	
68	Metro - Mulyojati	8	Beton	16 m	43.149	
168	Proyek Pancasila	8	Beton	12 m	25.400	
18	Untoro-Wates	3,5	Lapen	2.950	30.389	
24	Simp.Gn.Mekar-Kemuning	3,5	Macadam	3.5	39.989	
122	Dalam Kota Metro	3,5	Lapen	8.5	18.200	
07-26-128	Dlm.Wil.Kec.Bangunrejo	4	Gravel	18	74.205	
30-33-29	Dlm.Wil.Kec.Metro	4	Gravel	19	83.360	
35-36	Dlm.Wil.Kec.Metro	4	Gravel	17	76.260	
29-42-43	Dlm Wil.Kec.Metro	4	Gravel	22.3	98.185	
44-08	Dlm.Wil.Kec.Metro	4	Gravel	14.9	65.605	
596-50-49	Dlm.Wil.Kec.Pekalongan	4	Gravel	24.4	109.880	
51-40	Dlm.Wil.Kec.Pekalongan	4	Gravel	27.2	116,910	
436-45	Dlm.Wil.Kec.Pekalongan	4	Gravel	16.5	70.037	
147-179	Dlm.Wil.Kec.Pekalongan	4	Gravel	11.6	49.142	
47	Dlm.Wil.Kec.Pekalongan	4	Gravel	11	47.782	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI : Lampung

E-03-(1)

KABUPATEN : Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga ($Rp\ 10^6$)	REMARKS Keterangan
48	Dlm.Wil.Kec.Pekalongan	4	Gravel	11,5	48.600	
54	Sumberejo - Kt. Gajah	4	Gravel	2.5	10.537	
55	Totokaton-P.Gotong Royong	4	Gravel	7	29.819	
53	Ruktiharjo-Ramayana	4	Gravel	7,5	31.830	
56-57	Dlm.Wil.Kec.Sep.Banyak	4	Gravel	23	99.235	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / Japat

PROPINSI: Lampung E-03-(2)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1981/1982

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
40 a	Punggur - Gn.Sugih	3,5	Macadam	3.9	57.889	
40 a	Punggur - Gn.Sugih	3,5	Lapen	4,5	59.980	
54	Pasar Kota Gajah	3,5	Macadam	1.4	23.669	
19	Purwosari - Pekalongan	3,5	Macadam	3.3	39.531	
136	Dlm.Kota Way.Jepara	3,5	Macadam	3	39.531	
168	Proyek Pancasila	3,5	Macadam	2.5	35.097	
12	Simbarwaringin-Untoro	3,5	Lapen	4	51.777	
12	Simbarwaringin-Untoro	3,5	Lapen	2.7	37.403	
21	Poncowati I - Poncowati Tunggal	3,5	Macadam	2.7	37.437	
21	Poncowati I - Poncowati Tunggal	3,5	Lapen	3	42.411	
63	Taman Sari-Ratna Daya	3,5	Lapen	3	38.966	
120	Lampuyang-Bandar Sakti	3,5	Lapen	3.86	54.976	
122	Dalam Kota Metro	3,5	Macadam	4,6	60.862	
122	Dalam Kota Metro	3,5	Lapen	2,5	37.003	
68	Tejosari - Perumnas	3,5	Lapen	1.45	20.516	
59	Yosodadi - 15A Metro	3,5	Macadam	2.45	33.68	
60	Probolinggo - Bungur	3,5	Macadam	5	54.255	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1981/1982

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO. : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
169	Donomulyo-P.Sekampung	3,5	Macadam	3	40.737	
01	Kalirejo-Sindang Agung	3,5	Macadam	5	76.519	
24	Adirejo - Asahan	3,5	Macadam	4.5	60.375	
63	Tamansari-Ratna Daya	3,5	Lapen	2.7	36.469	
64	BanjarAgung-Uman Agung	3,5	Macadam	4	60.578	
103	Bandarjaya-Sulusuban	3,5	Macadam	1,25	34.842	
26	Sukanegara-Simbarwaringin	4,9	Beton	10	27.819	
30	Banjarsari-Pujodadi	4,5	Beton	13 m	26.443	
122	Way Areng-Sukadana	8	Beton	12 m	32.493	
179	Batanghari-Selorejo	6	Beton	8 m	22.760	
59	Jl.Batanghari Kp. 15 A	8	Beton	16 m	46.172	
01	Kalirejo-Kalidadi	7	Beton	8 m	22.818	
60	Tegal.Ombo-Tanjung Kesuma	8	Beton	8 m	39.048	
01	Kalirejo	6	Beton	16 m	43.144	
58	Bantul - Kibang	3,5	Macadam	1	18.014	
173	Jl.Way Tuba (Jabung)	3,5	Macadam	1	15.180	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(2)

KABUPATEN: Lampung Tengah

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1981/1982

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
72	Jl.Labuhan Ratu II (Way Jepara)	3,5	Macadam	2.1	27.524	
26	Sidomulyo-Karang Tanjung	4	Gravel	11.9	65.858	
119	Sukanegara-Tugul Mulyo	4	Gravel	13.4	60.106	
119	Sukawaringin-Kr.Tani	4	Gravel	14.7	79.173	
169	Bumimas - Donomulyo	4	Gravel	10	43.118	
134	Purwosari-Rejo Basuki	4.5	Beton	7 m	15.178	
54	Sumberejo-Kayangan	4	Gravel	3.5	12.482	
16	Ramagunawan-Rejobinagun	4	Gravel	15	69.774	
46	Sidomulyo-Sritejo	4,5	Beton	8 m	24.431	
154	SMP Tagwa - Bandarjaya	4	Gravel	0,8	4.269	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(3)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1982/1983

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
144	Rajabasa Baru - J.Sriwijaya	3,5	Macadam	4	57.116	
65	Jatidatar - Terb.Ilir	4.9	Beton	8 m	25.950	
22	Pekalongan - KBH XII	3,5	Lapen	4	56.512	
	Kota Baru	4,9	Beton	20 m	53.827	
66	Ramagunawan-Rejo Binangun	4.9	Beton	6 m	23.968	
07	Bangun Rejo-Sidomulyo	4.9	Beton	8 m	21.287	
06	Bandarsari-Payungrejo	4.9	Beton	13 m	32.698	
55	Totokaton-Payung Rejo	8	Beton	12 m	30.443	
27	Tulung Jukung	6	Beton	8 m	25.292	
70	Poncowati-Mujirahayu	8	Beton	12 m	35.278	
25	Sekampung-Negrikaton	8	Beton	12 m	39.690	
45	Wonosari-Sritejokencono	4.9	Beton	18 m	39.795	
08	Hadimulyo-Karangrejo	4,9	Beton	14 m	41.542	
84	Sidobinangun-Sribusana	4,9	Beton	7 m	25.348	
145	Probolinggo-Tambah Luhur	3,5	Macadam	5 m	59.981	
73	Labuhanratu II-Bandarsari	3,5	Macadam	3 m	36.491	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-03-(3)

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1982/1983

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
122	Dalam Kota Metro	3,5	Macadam	4.083	60.402	
122	Dalam Kota Metro	3,5	Lapen	4.221	59.698	
19	Hadimulyo-Purwosari	3,5	Lapen	3.5	49.580	
15 A	Pasar Bandar Jaya	3,5	Lapen	7.517	70.042	
99	Merandungsari-Saputra Aji	3,5	Macadam	4	53.713	
07	Bangunrejo-Sidomulyo	3,5	Macadam	2	30.472	
06	Bandarsari-Payungrejo	3,5	Macadam	4	66.207	
40	Ngestirahayu-Manggungan	3,5	Macadam	2.3	29.489	
60	Probolinggo-Bunggur	3,5	Macadam	4	57.895	
112	Wy.Areng - M.Marga	3,5	Macadam	4	49.029	
103	Sulusuban-Bandarjaya	3,5	Macadam	15	63.098	
157	Poncowati-Mujirahayu	3,5	Macadam	4.3	53.520	
156	Jembatan Serong-Donomulyo	3,5	Lapen	4	56.069	
65	Jatidatar-Terb.Ilir	3,5	Macadam	3	46.531	
159	Dalam Kota Sep.Raman	3,5	Macadam	3	44.078	
133	Sriminosari-Penet	3,5	Macadam	5	68.792	
25	Sekampung-Negrikaton	3,5	Macadam	5	59.414	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(3)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1982/1983

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
24	Adirejo-Mumbang Jaya	3,5	Macadam	0,500	4.405	
173	Punggung Raharjo	3,5	Macadam	1.1	16.068	
147	Batanghari-Nampirejo	4,9	Beton	10 m	12.3	
122	Dalam Kota Metro		Lapen		14.380	
76	Taman Bogo-Nambahdadi	3,5	Macadam	5.3	48.208	
76	Taman Bogo-Tamanendah	4,5	Beton	7 m	20.685	
120	Bandarsakti-Transad	4,5	Beton	12 m	20.797	
122	Dalam Kota Metro	3,5	Macadam	0.702	8.709	
96	Sumberejo-Pagarwojo	4	Gravel	10	80.680	
52	Gantiwarno-Sukaraja	4	Gravel	12	79.349	
187	Surabaya-Bandarsari	4	Gravel	4	45.000	
06	Bandarsari-Payung batu	4	Gravel	5	27.159	
99	Merandungsari-Saputraji	4	Gravel	11	39.059	
27	Jayasakti-Tuluk Jukung	4	Gravel	7	57.639	
78	Ramanirwana-Buyut Baru	4	Gravel	4	25	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-03-(4)

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1983/1984

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1983/1984

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
68	Tejosari-Mulyojati	4,5	Macadam	2.9	54.990	
135	Dlm.Kota.Kec.Sekampung	3,5	Lapen	2	37.078	
185	Lab.Ratu-Batu Culo	3,5	Macadam	3	40.013	
70	Rejo Binangun	4,5	Beton	10 m	27.503	
159	Dlm Kota Kec.S.Raman	3,5	Macadam	3.5	45.867	
160	Dlm.Kota.Kec.Rm.Utara	3,5	Macadam	2	27.030	
161	Raman Aji-Rukti Sedia	3,5	Macadam	5.5	63.453	
84	Taman Fajar-Rejokaton	4,5	Beton	17 m	36.441	
19	Purwosari-Gantiwarno	3,5	Lapen	4	61.200	
84	Sep.Banyak-R.M.Utara	4,9	Beton	12 m	32.208	
78	R.M.Nirwana-Buyut Baru	4,9	Beton	7 m	19.865	
119	Kota Baru-Karang Tanjung	4,9	Beton	30 m	64.630	
27	Tulung Jurug-Jayasakti	4,5	Beton	10 m	29.630	
119	Sukanegara-Tugumulyo	4,9	Beton	6 m	24.600	
07	Sidorukun-Sidomulyo	4,9	Beton	7 m	24.898	
69	Banjar Agung-Uman Agung	4,9	Beton	7 m	47.941	
55	Tl.Itik-Gotong Royong	4,9	Beton	13 m	30.890	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(4)

KABUPATEN Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1983/1984

Biaya konstruksi peunganaan jalan dan jembatan Kabupaten thn. 1983/1984

LINK NO Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga ($Rp\ 10^6$)	REMARKS Keterangan
40	Tulung Itik-Manggungan	4,9	Beton	13 m	28.843	
179	Bumi Mas-Marga Jaya	4,9	Beton	7 m	26.424	
18	Hadimulyo-Makam Pahlawan	3,5	Lapen	2.659	6.425	
40 a	Punggur-Majapahit	3,5	Lapen	2.4	59.160	
89	Braja Indah-Braja Arjosari	3,5	Macadam	6.5	83.5	
07	Trisno Agung-K.Tanjung	4	Gravel	8	98.237	
07	Wy.Ilian Balak	4,9	Kayu	6 m	10.670	
88	Taman Bogo-Muara jaya	4	Gravel	7	46.309	
70	Sumber Baru-Rejobinangun	4	Gravel	20	109.717	
80	Wy.Tl.Braja dan Wy.Muara Jaya	4.9	Kayu	20 m	27.940	
71	Wana-Batu Badak	4	Gravel	15	95.367	
143	Kibang-Purba Sembada	4	Gravel	2	15.496	
96	Saptomulyo-Pagerwojo	4	Gravel	0.800	6.950	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-03-(4)

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1983/1984

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1983/1984

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) / Lebar Jembatan	Type perkerasan / Type Jembatan	LENGTH Panjang (KM)	COSTS Harga ($Rp\ 10^6$)	REMARKS Keterangan
122	Dalam Kota Metro	3 3,5	Lapen	3.5	53.555	
182	Girikarto-Margomulyo	3,5	Macadam	5.78	63.580	
73	Rejosari-Lab.Ratu Lama	3,5	Macadam	5	54.795	
60	Totomulyo-Tanjung Intan	3,5	Macadam	3.1	43.669	
22	Pekalongan-KBH XIII	3,5	Lapen	5.6	83.883	
116	Sukadana - Susukan Baru	3,5	Macadam	5	52.451	
183	Bojong - TJ. Harapan	3,5	Macadam	4	44.309	
102	Retno Basuki-Rejokaton	3,5	Macadam	6,5	76.068	
84	Taman Fajar-Rejokaton	3,5	Macadam	4	47.420	
184	Mataram Marga-B.Sulak	3,5	Macadam	4.15	52.814	
155	Sep.Banyak-R.Utara	3,5	Macadam	6	88.101	
40	Ngesturahayu-GT.Royong	3,5	Macadam	3.64	41.648	
69	Jati Datar - Darma Agung	3,5	Macadam	5	74.720	
156	Donomulyo-Nyampir	3,5	Lapen	4	60.650	
68	Tejosari-Mulyojati	10	Beton	10 m	43.055	
103	Bumi Kencana-Simp.Agung	3,5	Lapen	5	80.750	
122	Dalam Kota Metro	3,5	Macadam	5.148	65.766	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-03-(5)

LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1984/1985

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1984/1985

LINK NO Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
122	Lingkar Master Plant Kota Metro	3,5	Macadam	6.343	87.549	
122	Ganjar Agung-Purwodadi	4,9	Beton bertulang	7 m	20.044	
123	Sidorejo-Margomulyo	3,5	Macadam	4.6	63.604	
41	Kalibenino-Pekalongan	3,5	Lapen	5.105	79.771	
123	Sumbersari-Way Areng	4,9	Beton bertulang	7 m	23.805	
166	Rajabasa Lama-Way Kambas	3,5	Macadam	6	81.333	
103	Dono Arum-Sulusuban	3,5	Lapen	5.5	90.580	
101	Setiabudi-Rejo katon	3,5	Macadam	5.425	66.698	
56	Srikencono-Bumi Nabung	4,9	Beton	7 m	20.081	
122	Dalam Kota Metro	3,5	Lapen	5.149	80.543	
51	Sidodadi-Pekalongan	4,9	Beton	7 m	24.703	
103	Bumi Kencono-Fajar Asri	3,5	Lapen	5.5	87.510	
95	Trimulyo-Mataram Ilir	4,9	Beton	10	30.367	
59	Batangharjo-Balerejo	4,9	Beton	7 m	21.768	
58	Margototo-Margajaya	3,5	Macadam	5	73.920	
136	Dalam Kota Way Jepara	3,5	Lapen	3	48.779	
54	Sritejo-Punggur	4,9	Beton	10 m	31.556	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(5)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1984/1985

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1984/1985

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
152	Mumbang Jaya-Asahan	3,5	Macadam	2.3	35.849	
60	Totoprojo-Tanjung Tirta	3,5	Macadam	5	70.099	
124	Banarjoyo-Dl.Kt.Bt.Hari	3,5	Lapen	2,1	34.661	
106	Giriklopo Mulyo-Sidodadi	3,5	Macadam	3.605	52.630	
113	Margorejo-Sumber Sari	3,5	Macadam	3	36.540	
128	Dalam Kota Bangunrejo	3,5	Macadam	2.847	48.780	
54	Way.Buring-Kayangan	4,9	Beton	8 m	29.117	
25	Girikarto-Negrikaton	3,5	Macadam	3.5	51.120	
07	Bangunrejo-Sumberejo	4,9	Beton	7 m	31.758	
09	Jurusan Pujoasri	4,9	Beton	7 m	25.747	
61	Ganjar Agung-Mulyojati	4,9	Beton	10 m	32.855	
152	Sp.Kemuning-Numbang Jaya	3,5	Lapen	5.5	89.774	
	Sulusuban-Pabrik Ethanol	3,5	Lapen	0.5	10.000	
154	Komplek terminal BD.Jaya Macadam sampai penetrasi	17	Lapen	0.56	51.750	
156	Way Areng-Nyampir	3,5	Lapen	1.3	23.000	
113	Margorejo-Sumber Sari	4,9	Beton	7 m	22.443	
122	Jalan Palapa Metro	3,5	Lapen	0.57	10.000	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI: Lampung

E-03-(5)

KABUPATEN: Lampung Tengah LOCATION AND COSTS OF THE KABUPATEN ROADS CONSTRUCTED OR INPROVED IN 1984/1985

Biaya konstruksi penanganan jalan dan jembatan Kabupaten thn. 1984/1985

LINK NO Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar perkerasan(m) Lebar Jembatan	Type perkerasan Type Jembatan	LENGTH Panjang (KM)	COSTS Harga (Rp 10^6)	REMARKS Keterangan
162	Komplek Pasar PB.Linggo	3,5	Macadam	1.4	20.000	
171	Sulusuban-Gedongsari	4	Gravel	18	133.056	
75	Mandalasari-Tl.Pasik	4	Gravel	5	42.730	
81	Poncowarno-Sribasuki	4	Gravel	4.3	55.697	
92	Sukajawa-Rengas	4	Gravel	8	69.851	
71	Wana-Mojopahit	4	Gravel	5	43.127	
149	Labuhan-Kuala	4	Gravel	1.5	15.648	
27	Kr.Tanjung-Tl.Jukung	4,9	Beton	5 m	14.408	
52	Gantiwarno-Kedaton	8	Beton	2 m	3.695	
27	Jayasakti-Tl.Jukung	8	Beton	2 m	3.365	
	Dlm.Wil.Kab.Lampung Tengah	3,5	Macadam/Lapen	280.99		
	Dlm.Jalan Kabupaten	4,9	Beton	87 m	92.586	

* PAVEMENT TYPE : Pls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

PROPINSI : Lampung

E-04

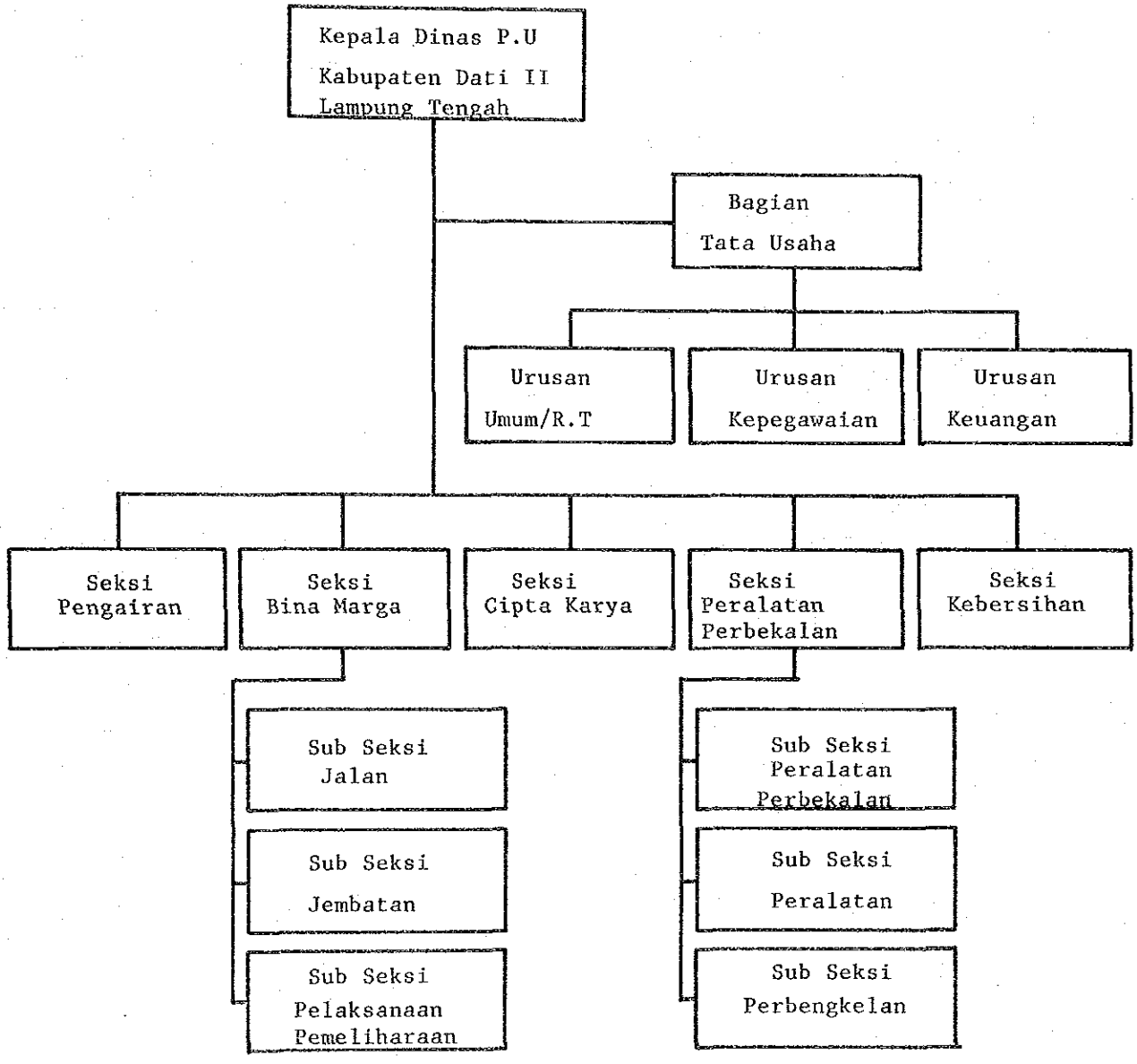
KABUPATEN: Lampung Tengah

EXISTING ORGANIZATION IN KABUPATEN

Structur Organisasi yang ada dari P.U Kabupaten

Please draw the Cart of the Existing Organization in the Kabupaten.

Harap digambar bagan organisasi dari DPUK.



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATEN

Tenaga Dinas PUK yang ada

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

DESCRIPTION /Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLING STAFF Staff teknis PUK	25	10
DPUK ENGINEED Sarjana Teknik		
ASSISTANT ENGINEER Sarjana Muda Teknik		
TECHNICIAN STAFF Staff Teknik (STM)	25	10
ADMINISTRATION Tenaga Administrasi	20	
SUPERVISOR Tenaga Pengawas	35	15
WORKING FORCE Tenaga Pelaksana Lapangan		
OPERATORS Operators	12	5
DRIVERS Supir	7	3
MECHANICS Mechanic	5	2
TRADESMAN Tukang	5	
L A B O U R Buruh / Pekerja	50	
OTHERS Lain-lain		
TOTAL / JUMLAH	79	10

Catatan ; Untuk kolom keterangan harap diisi berapa orang yang telah mendapat Training.

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUK

PROPINSI : Lampung

KABUPATEN: Lampung Tengah

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Metro	12.250	1	

PROPINSI: Lampung

E-07

KABUPATEN: Lampung Tengah

LAND ACQUISITION COST

Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	15.000	
VILLAGE / desa	M2	10.000	
RICE FIELD/sawah	M2	7.500	
DRY FIELD/ladang	M2	6.000	
MIX CROPS/panen	M2	5.000	
FOREST/hutan	M2	3.000	
SWAMP / rawa	M2	2.500	
OTHERS / lain-lain	M2	2.000	

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-08

Classification of local contractors at Kabupaten level.

Klasifikasi kontraktor di Kabupaten

COMPANY NAME Nama Kontraktor	CLASS Kelas	CAPITAL Modal (Rp)	NUMBER OF EMPLOYEE Jumlah pegawai	REMARKS Keterangan
14	B2	622.368.428	29	
62	C1	148.178.032	25	
87	C2	79.737.753	17	

NOTE: DATI II

PROPINSI: Lampung

KABUPATEN: Lampung Tengah

E-09

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan						REQUIRE - MENT / Kebutuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah			REASON OF BAD CONDITION/Sebab Kerusakan	
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							
Motor Grader							
Tyre Roller							
Steel Whell Roller							
Vibration Roller							
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer							
Stone Crusher							
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer							
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper	Kubota	1981	BK		20		
Pile Driver							
Leg Drill							
Hand Hammer	Eyer	1980	BK		258		
Farm Tractor							
Dump Truck	Toyota	1981	BK		58		
Water Tank Truck							
Fuel Tank Truck							
Pick Up	Kijang	1981	BK		22		
Jeep	Toyota	1982	BK		19		
Motorcycle	Honda	1981	BK		48		
Generator	Yamar	1981	BK		9		
Water Pump	Kubota	1981	BK		23		
Others							

PROPINSI : Lampung

KABUPATEN : Lampung Tengah

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan						REQUIRE - MENT / Kebutuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah			REASON OF BAD CONDITION/Sebab Kerusakan	
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer	MQ.3N	1980	BK		1		
Motor Grader	Sakai	1980	BK		1		
Tyre Roller	Barito	1983/84	BK		6		
Steel Whell Roller	Marshal	1974/78	BK		7		
Vibration Roller	Kobe.LK 300	1980	BK		1		
Wheel Loader							
Front End Loader and Backhoe	Barata	1980	BK		4		
Mobile Crane							
Concrete Mixer							
Stone Crusher							
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer							
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper	Barito	1982	BK		4		
Pile Driver							
Leg Drill							
Hand Hammer							
Farm Tractor							
Dump Truck	DL-V.22	1980	BK		3		
Water Tank Truck							
Fuel Tank Truck	Colt	1980	BK		1		
Pick Up							
Jeep							
Motorcycle							
Generator							
Water Pump							
Others							

Appendix A-3 CONSTRUCTION AND MAINTENANCE COST FOR PROPOSED ROAD LINKS

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 30 (IIIB-2) LENGTH : 7 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1184.0	2,813	1,340	3,330,592	1,586,560	4,917,152
Base Course	m3	1680.0	3,861	2,290	6,486,480	3,847,200	10,333,680
Shoulder	m2	38500.0	256	145	9,856,000	5,582,500	15,438,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	24.0	51,373	38,938	1,232,952	934,512	2,167,464
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	34.4	36,883	11,442	1,268,775	393,604	1,662,379
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		22,174,799	12,344,376	34,519,175
Overhead (15%)					3,326,219	1,851,656	5,177,875
			TOTAL COST		25,501,018	14,196,032	39,697,050
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of gravel road	Km	7.0	168,711	87,777	1,180,977	614,439	1,795,416
			Sub Total		1,994,097	665,091	2,659,188
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	58.8	3,664	2,413	215,443	141,884	357,327

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	5,671,007
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	2,458,576
Maintenance Rate without Bridge		(%)	:	6.70
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 29 (IIIB-1) LENGTH : 6 Km

UPGRADE : 8.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Noreal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Noreal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1014.0	2,813	1,340	2,852,382	1,358,760	4,211,142
Base Course	m3	1680.0	3,861	2,290	6,486,480	3,847,200	10,333,680
Shoulder	m2	24000.0	256	145	6,144,000	3,480,000	9,624,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	24000.0	601	595	14,424,000	14,280,000	28,704,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	30,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	15.0	36,883	11,442	553,245	171,630	724,875
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		30,460,107	23,137,590	53,597,697
Overhead (15%)					4,569,016	3,470,638	8,039,654
			TOTAL COST		35,029,123	26,608,228	61,637,351
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	39.2	3,664	2,413	143,628	94,589	238,217

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,272,892
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,014,535
Maintenance Rate without Bridge		(%)	:	5.53
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 28 (IIIB-1) LENGTH : 6 Km

UPGRADE : 8.0m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,404	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	876.8	2,813	1,340	2,466,438	1,174,912	3,641,350
Base Course	m3	1470.0	3,861	2,290	5,675,670	3,366,300	9,041,970
Shoulder	m2	27000.0	256	145	6,912,000	3,915,000	10,827,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	21000.0	601	595	12,621,000	12,495,000	25,116,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	8.0	51,373	38,938	410,984	311,504	722,488
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		28,141,416	21,279,879	49,421,295
Overhead (15%)					4,221,212	3,191,981	7,413,193
			TOTAL COST		32,362,628	24,471,860	56,834,488
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	9,472,415
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,357,339
Maintenance Rate without Bridge		(%)	:	6.00
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 20 (IIIA) LENGTH : 8 Km

UPGRADE : 9.5m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	845.0	873	520	737,685	439,400	1,177,085
Sub Base Course	m3	1995.5	2,813	1,340	5,613,341	2,673,970	8,287,311
Base Course	m3	2880.0	3,861	2,290	11,119,680	6,595,200	17,714,880
Shoulder	m2	40000.0	256	145	10,240,000	5,800,000	16,040,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	36000.0	740	935	26,640,000	33,660,000	60,300,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	30.0	36,883	11,442	1,106,490	343,260	1,449,750
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		55,457,196	49,511,830	104,969,026
Overhead (15%)					8,318,579	7,426,774	15,745,353
			TOTAL COST		63,775,775	56,938,604	120,714,379
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,688	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	112.7	3,664	2,413	412,932	271,945	684,877

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	15,089,297
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	11,050,568
Maintenance Rate without Bridge		(%)	:	3.77
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 16 (IIIB-2) LENGTH : 17 Km

UPGRADE : 9.0m road bed, 4.0m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	2308.0	2,813	1,340	6,492,404	3,092,720	9,585,124
Base Course	m3	4080.0	3,861	2,290	15,752,880	9,343,200	25,096,080
Shoulder	m2	85000.0	256	145	21,760,000	12,325,000	34,085,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert Ø80cm	m	0.0	38,324	40,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,930	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		44,005,284	24,760,920	68,766,204
Overhead (15%)					6,600,792	3,714,138	10,314,930
			TOTAL COST		50,606,076	28,475,058	79,081,134
Manual routine maintenance of road	Km	17.0	116,160	7,236	1,974,720	123,012	2,097,732
Routine maintenance of gravel road	Km	17.0	168,711	87,777	2,868,087	1,492,209	4,360,296
			Sub Total		4,842,807	1,615,221	6,458,028
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	29.4	3,664	2,413	107,721	70,942	178,663

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	4,651,831
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,792,562
Maintenance Rate without Bridge		(%)	:	8.17
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 15 (IIIA) LENGTH : 15 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	2608.0	2,813	1,340	7,336,304	3,494,720	10,831,024
Base Course	m3	4800.0	3,861	2,290	18,532,800	10,992,000	29,524,800
Shoulder	m2	82500.0	256	145	21,120,000	11,962,500	33,082,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	60000.0	740	935	44,400,000	56,100,000	100,500,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		91,389,104	82,549,220	173,938,324
Overhead (15%)					13,708,365	12,382,383	26,090,748
			TOTAL COST		105,097,469	94,931,603	200,029,072
Manual routine maintenance of road	Km	15.0	116,160	7,236	1,742,400	108,540	1,850,940
Routine maintenance of asphalt road	Km	15.0	307,900	137,100	4,618,500	2,056,500	6,675,000
			Sub Total		6,360,900	2,165,040	8,525,940
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	49.0	3,664	2,413	179,536	118,237	297,773

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,335,272
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	16,046,019
Maintenance Rate without Bridge		(%)	:	4.26
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 12 (IIIA) LENGTH : 8 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1412.0	2,813	1,340	3,971,956	1,892,080	5,864,036
Base Course	m3	2560.0	3,861	2,290	9,884,160	5,862,400	15,746,560
Shoulder	m2	44000.0	256	145	11,264,000	6,380,000	17,644,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	32000.0	740	935	23,680,000	29,920,000	53,600,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall) (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		48,800,116	44,054,480	92,854,596
Overhead (15%)					7,320,017	6,608,172	13,928,189
			TOTAL COST		56,120,133	50,662,652	106,782,785
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,688	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,347,848
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	8,627,868
Maintenance Rate without Bridge		(%)	:	4.26
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 7 (IIIB-2) LENGTH : 7 Km

UPGRADE : 9.0m road bed, 3.5m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	COST TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	45000.0	18	11	810,000	495,000	1,305,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	149.0	873	520	130,077	77,480	207,557
Sub Base Course	m3	2675.8	2,813	1,340	7,527,025	3,585,572	11,112,597
Base Course	m3	1470.0	3,861	2,290	5,675,670	3,366,300	9,041,970
Shoulder	m2	38500.0	256	145	9,856,000	5,582,500	15,438,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	8.0	51,373	38,938	410,984	311,504	722,488
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		24,465,080	13,435,519	37,900,599
Overhead (15%)					3,669,762	2,015,327	5,685,089
			TOTAL COST		28,134,842	15,450,846	43,585,688
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of gravel road	Km	7.0	168,711	87,777	1,180,977	614,439	1,795,416
			Sub Total		1,994,097	665,091	2,659,188
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	117.6	3,664	2,413	430,886	283,768	714,654

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	6,226,527
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,556,298
Maintenance Rate without Bridge		(%)	:	6.10
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 6 (IIIA) LENGTH : 8 Km

UPGRADE : 12.5m road bed, 9.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	7200.0	144	90	1,036,800	648,000	1,684,800
Subgrade Preparation	m2	100000.0	18	11	1,800,000	1,100,000	2,900,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1871.0	873	520	1,633,383	972,920	2,606,303
Sub Base Course	m3	10640.0	2,813	1,340	29,930,320	14,257,600	44,187,920
Base Course	m3	6080.0	3,861	2,290	23,474,880	13,923,200	37,398,080
Shoulder	m2	24000.0	256	145	6,144,000	3,480,000	9,624,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	76000.0	740	935	56,240,000	71,060,000	127,300,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		120,259,383	105,441,720	225,701,103
Overhead (15%)					18,038,907	15,816,258	33,855,165
			TOTAL COST		138,298,290	121,257,978	259,556,268
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,688	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	32,444,534
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	44,699,856
Maintenance Rate without Bridge		(%)	:	1.75
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 1 (IIIC) LENGTH : 6 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Subbase Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	276.0	2,813	1,340	776,388	369,840	1,146,228
Base Course	m3	1440.0	3,861	2,290	5,559,840	3,297,600	8,857,440
Shoulder	m2	33000.0	256	145	8,448,000	4,785,000	13,233,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,083	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		14,784,228	8,452,440	23,236,668
Overhead (15%)					2,217,634	1,267,866	3,485,500
			TOTAL COST		17,001,862	9,720,306	26,722,168
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of gravel road	Km	6.0	169,711	87,777	1,012,266	526,662	1,538,928
			Sub Total		1,709,226	570,078	2,279,304
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	272.0	3,664	2,413	996,608	656,336	1,652,944

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	4,453,695
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	458,491
Maintenance Rate without Bridge		(%)	:	8.53
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 4 (IIIB-1) LENGTH : 4 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	38000.0	18	11	684,000	418,000	1,102,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	388.0	873	520	338,724	201,760	540,484
Sub Base Course	m3	2240.0	2,813	1,340	6,301,120	3,001,600	9,302,720
Base Course	m3	1120.0	3,861	2,290	4,324,320	2,564,800	6,889,120
Shoulder	m2	22000.0	256	145	5,632,000	3,190,000	8,822,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	16000.0	601	595	9,616,000	9,520,000	19,136,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	32.0	51,373	38,938	1,643,936	1,246,016	2,889,952
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	5.8	36,883	11,442	213,921	66,363	280,284
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		28,754,021	20,208,539	48,962,560
Overhead (15%)					4,313,103	3,031,280	7,344,383
			TOTAL COST		33,067,124	23,239,819	56,306,943
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	35.0	6,957	2,400	243,495	84,000	327,495
Maintenance of Concrete Bridge (Exist)	m2	25.0	3,664	2,413	91,600	60,325	151,925

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,076,736
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	7,889,728
Maintenance Rate without Bridge		(%)	:	4.04
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 3 (IIIC) LENGTH : 5 Km

UPGRADE : 10.0m road bed, 4.0m road with surface Subbase Cource

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	50000.0	18	11	900,000	550,000	1,450,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	496.0	873	520	433,008	257,920	690,928
Sub Base Course	m3	3200.0	2,813	1,340	9,001,600	4,288,000	13,289,600
Base Course	m3	0.0	3,861	2,290	0	0	0
Shoulder	m2	30000.0	256	145	7,680,000	4,350,000	12,030,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	8.0	51,373	38,938	410,984	311,504	722,488
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	11,520,070	1,158,352	12,678,422
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		30,000,986	10,932,939	40,933,925
Overhead (15%)					4,500,147	1,639,940	6,140,087
			TOTAL COST		34,501,133	12,572,879	47,074,012
Manual routine maintenance of road	Km	5.0	116,160	7,236	580,800	36,180	616,980
Routine maintenance of gravel road	Km	5.0	168,711	87,777	843,555	438,885	1,282,440
			Sub Total		1,424,355	475,065	1,899,420
Maintenance of Timber Bridge (New)	m2	140.0	7,257	1,120	1,015,980	156,800	1,172,780
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	20.0	3,664	2,413	73,280	48,260	121,540

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	6,498,766
Timber Bridge	Unit Cost	(Rp/m2)	:	104,144
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,315,840
Maintenance Rate without Bridge		(%)	:	5.85
New Bridge Cost Rate		(%)	:	30.97

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 2 (IIIC) LENGTH : 4 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Subbase Cource

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	38000.0	18	11	684,000	418,000	1,102,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	336.0	2,208	1,047	741,888	351,792	1,093,680
Normal Excavation to Spoil	m3	628.0	873	520	548,244	326,560	874,804
Sub Base Course	m3	2560.0	2,813	1,340	7,201,280	3,430,400	10,631,680
Base Course	m3	0.0	3,861	2,290	0	0	0
Shoulder	m2	22000.0	256	145	5,632,000	3,190,000	8,822,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	4800.0	1,039	472	4,987,200	2,265,600	7,252,800
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	8.0	51,373	38,938	410,984	311,504	722,488
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		20,260,920	10,311,019	30,571,939
Overhead (15%)					3,039,138	1,546,652	4,585,790
			TOTAL COST		23,300,058	11,857,671	35,157,729
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of gravel road	Km	4.0	168,711	87,777	674,844	351,108	1,025,952
			Sub Total		1,139,484	380,052	1,519,536
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	24.0	6,957	2,400	166,968	57,600	224,568
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	8,789,432
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,252,672
Maintenance Rate without Bridge		(%)	:	4.32
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 176 (1113-1) LENGTH : 3 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	544.0	2,813	1,340	1,530,272	728,960	2,259,232
Base Course	m3	840.0	3,861	2,290	3,243,240	1,923,600	5,166,840
Shoulder	m2	16500.0	256	145	4,224,000	2,392,500	6,616,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	12000.0	601	595	7,212,000	7,140,000	14,352,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	30.0	36,883	11,442	1,106,490	343,260	1,449,750
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		17,316,002	12,528,320	29,844,322
Overhead (15%)					2,597,400	1,879,248	4,476,648
			TOTAL COST		19,913,402	14,407,568	34,320,970
Manual routine maintenance of road	Km	3.0	116,160	7,236	348,480	21,708	370,188
Routine maintenance of asphalt road	Km	3.0	307,900	137,100	923,700	411,300	1,335,000
			Sub Total		1,272,180	433,008	1,705,188
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	11,440,323
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	2,614,830
Maintenance Rate without Bridge		(%)	:	4.97
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 175 (III A) LENGTH : 17 Km

UPGRADE : 7.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	105.0	873	520	91,665	54,600	146,265
Sub Base Course	m3	2708.0	2,813	1,340	7,617,604	3,628,720	11,246,324
Base Course	m3	5440.0	3,861	2,290	21,003,840	12,457,600	33,461,440
Shoulder	m2	59500.0	256	145	15,232,000	8,627,500	23,859,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	68000.0	740	935	50,320,000	63,580,000	113,900,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	40,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	173.0	36,883	11,442	6,380,759	1,979,466	8,360,225
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		100,645,868	90,327,886	190,973,754
Overhead (15%)					15,096,880	13,549,182	28,646,062
			TOTAL COST		115,742,748	103,877,068	219,619,816
Manual routine maintenance of road	Km	17.0	116,160	7,236	1,974,720	123,012	2,097,732
Routine maintenance of asphalt road	Km	17.0	307,900	137,100	5,234,300	2,330,700	7,565,000
			Sub Total		7,209,020	2,453,712	9,662,732
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	98.0	3,664	2,413	359,072	236,474	595,546

Earthwork & Pavement Unit Cost	(Rp/Km)	:	12,918,813
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	17,362,419
Maintenance Rate without Bridge	(%)	:	4.40
New Bridge Cost Rate	(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 174 (T11A) LENGTH : 8 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1120.0	873	520	977,760	582,400	1,560,160
Sub Base Course	m3	2296.0	2,813	1,340	6,458,648	3,076,640	9,535,288
Base Course	m3	2880.0	3,861	2,290	11,119,680	6,595,200	17,714,880
Shoulder	m2	36000.0	256	145	9,216,000	5,220,000	14,436,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	36000.0	740	935	26,640,000	33,660,000	60,300,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		54,412,088	49,134,240	103,546,328
Overhead (15%)					8,161,813	7,370,136	15,531,949
			TOTAL COST		62,573,901	56,504,376	119,078,277
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,688	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,884,785
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	12,056,950
Maintenance Rate without Bridge		(%)	:	3.82
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 172 (111B-1) LENGTH : 10 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	28500.0	18	11	513,000	313,500	826,500
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	240.0	873	520	209,520	124,800	334,320
Sub Base Course	m3	2844.0	2,813	1,340	8,000,172	3,810,960	11,811,132
Base Course	m3	2800.0	3,861	2,290	10,810,800	6,412,000	17,222,800
Shoulder	m2	55000.0	256	145	14,080,000	7,975,000	22,055,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	40000.0	601	595	24,040,000	23,800,000	47,840,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SEI	1.0	--	--	3,302,694	431,432	3,734,126
New Bridge (Concrete)	SEI	1.0	--	--	0	0	0
			Sub Total		60,956,186	42,867,692	103,823,878
Overhead (15%)					9,143,427	6,430,153	15,573,580
			TOTAL COST		70,099,613	49,297,845	119,397,458
Manual routine maintenance of road	Km	10.0	116,160	7,236	1,161,600	72,360	1,233,960
Routine maintenance of asphalt road	Km	10.0	307,900	137,100	3,079,000	1,371,000	4,450,000
			Sub Total		4,240,600	1,443,360	5,683,960
Maintenance of Timber Bridge (New)	m2	24.0	7,257	1,120	174,168	26,880	201,048
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,966	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	36.0	3,664	2,413	131,904	86,868	218,772

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	11,510,321
Timber Bridge	Unit Cost	(Rp/m2)	:	178,927
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	11,712,352
Maintenance Rate without Bridge		(%)	:	4.94
New Bridge Cost Rate		(%)	:	3.60

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINE NO : 169 (IIIA) LENGTH : 6 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	630.0	873	520	549,990	327,600	877,590
Sub Base Course	m3	1138.0	2,813	1,340	3,201,194	1,524,920	4,726,114
Base Course	m3	1080.0	3,861	2,270	4,169,880	2,473,200	6,643,080
Shoulder	m2	27000.0	256	145	6,912,000	3,915,000	10,827,000
Asphalt Patching	m2	122.0	3,079	1,371	375,638	167,262	542,900
Surface Dressing (Single)	m2	13500.0	601	595	8,113,500	8,032,500	16,146,000
Surface Dressing (Double)	m2	13500.0	740	935	9,990,000	12,622,500	22,612,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		33,312,202	29,062,982	62,375,184
Overhead (15%)					4,996,830	4,359,447	9,356,277
			TOTAL COST		38,309,032	33,422,429	71,731,461
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	11,955,244
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,441,661
Maintenance Rate without Bridge		(%)	:	4.75
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 166 (IIIA) LENGTH : 8 Km

UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	18000.0	18	11	324,000	198,000	522,000
Normal Fill	m3	0.0	1,404	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1060.0	873	520	925,380	551,200	1,476,580
Sub Base Course	m3	2989.0	2,813	1,340	8,408,057	4,005,260	12,413,317
Base Course	m3	2080.0	3,861	2,290	11,119,680	6,595,200	17,714,880
Shoulder	m2	36000.0	256	145	9,216,000	5,220,000	14,436,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	36000.0	740	935	26,640,000	33,660,000	60,300,000
Earth Drain	m	2000.0	721	118	1,442,000	236,000	1,678,000
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	10.0	36,883	11,442	368,830	114,420	483,250
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		58,443,947	50,580,080	109,024,027
Overhead (15%)					8,766,592	7,587,012	16,353,604
			TOTAL COST		67,210,539	58,167,092	125,377,631
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,689	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	15,672,204
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	14,359,373
Maintenance Rate without Bridge		(%)	:	3.63
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINE NO : 158 (LTUB-1) LENGTH : 4 Km

UPGRADE : 11.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	46000.0	18	11	828,000	506,000	1,334,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	144.0	873	520	125,712	74,880	200,592
Sub Base Course	m3	2240.0	2,813	1,340	6,301,120	3,001,600	9,302,720
Base Course	m3	1120.0	3,861	2,270	4,324,320	2,564,800	6,889,120
Shoulder	m2	30000.0	256	145	7,680,000	4,350,000	12,030,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	16000.0	601	595	9,616,000	9,520,000	19,136,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		28,875,152	20,017,280	48,892,432
Overhead (15%)					4,331,272	3,002,592	7,333,864
			TOTAL COST		33,206,424	23,019,872	56,226,296
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,056,574
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	7,889,728
Maintenance Rate without Bridge		(%)	:	4.04
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 149 (1118-2) LENGTH : 3 Km

UPGRADE : 9.5m road bed, 3.5m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	959	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	120.8	2,813	1,340	339,810	161,872	501,682
Base Course	m3	210.0	3,861	2,290	810,810	480,900	1,291,710
Shoulder	m2	15000.0	256	145	3,840,000	2,175,000	6,015,000
Asphalt Patching	m2	104.0	3,079	1,371	320,216	142,584	462,800
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,054	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		5,310,836	2,960,356	8,271,192
Overhead (15%)					796,625	444,053	1,240,678
			TOTAL COST		6,107,461	3,404,409	9,511,870
Manual routine maintenance of road	Km	3.0	116,160	7,236	348,480	21,708	370,188
Routine maintenance of gravel road	Km	3.0	168,711	87,777	506,133	263,331	769,464
			Sub Total		854,613	285,039	1,139,652
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	78.4	3,664	2,413	287,257	189,179	476,436

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	3,170,624
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	250,841
Maintenance Rate without Bridge		(%)	:	11.98
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 142 (IIIB-1) LENGTH : 5 Km

UPGRADE : 9.0m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	18000.0	18	11	324,000	198,000	522,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	52.0	873	520	45,396	27,040	72,436
Sub Base Course	m3	1331.8	2,813	1,340	3,746,353	1,784,612	5,530,965
Base Course	m3	1225.0	3,861	2,290	4,729,725	2,805,250	7,534,975
Shoulder	m2	27500.0	256	145	7,040,000	3,987,500	11,027,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	17500.0	601	595	10,517,500	10,412,500	20,930,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	40,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		26,402,974	19,214,902	45,617,876
Overhead (15%)					3,960,446	2,882,235	6,842,681
			TOTAL COST		30,363,420	22,097,137	52,460,557
Manual routine maintenance of road	Km	5.0	116,160	7,236	580,800	36,180	616,980
Routine maintenance of asphalt road	Km	5.0	307,900	137,100	1,539,500	685,500	2,225,000
			Sub Total		2,120,300	721,680	2,841,980
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,170	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/l.m)	:	10,492,111
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,378,670
Maintenance Rate without Bridge		(%)	:	5.42
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 106 (IIIA) LENGTH : 4 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	560.0	873	520	488,880	291,200	780,080
Sub Base Course	m3	1165.5	2,813	1,340	3,278,551	1,561,770	4,840,321
Base Course	m3	1440.0	3,861	2,290	5,559,840	3,297,600	8,857,440
Shoulder	m2	18000.0	256	145	4,608,000	2,610,000	7,218,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	18000.0	740	935	13,320,000	16,830,000	30,150,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		27,255,271	24,590,570	51,845,841
Overhead (15%)					4,088,290	3,688,585	7,776,875
			TOTAL COST		31,343,561	28,279,155	59,622,716
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,905,679
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	6,088,616
Maintenance Rate without Bridge		(%)	:	3.81
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINE NO : 104 (IIIB-1) LENGTH : 7 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	66500.0	18	11	1,197,000	731,500	1,928,500
Normal Fill	m3	0.0	1,404	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	748.0	873	520	653,004	388,960	1,041,964
Sub Base Course	m3	3920.0	2,813	1,340	11,026,960	5,252,800	16,279,760
Base Course	m3	1960.0	3,861	2,290	7,567,560	4,488,400	12,055,960
Shoulder	m2	38500.0	256	145	9,856,000	5,582,500	15,438,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	28000.0	601	595	16,828,000	16,660,000	33,488,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		47,128,524	33,104,160	80,232,684
Overhead (15%)					7,069,278	4,965,624	12,034,902
			TOTAL COST		54,197,802	38,069,784	92,267,586
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of asphalt road	Km	7.0	307,900	137,100	2,155,300	959,700	3,115,000
			Sub Total		2,968,420	1,010,352	3,978,772
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,181,084
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	13,807,024
Maintenance Rate without Bridge		(%)	:	4.31
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 138 (IIID-1) LENGTH : 3 Km

UPGRADE : 9.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	27000.0	18	11	486,000	297,000	783,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	80.0	873	520	69,840	41,600	111,440
Sub Base Course	m3	1680.0	2,813	1,340	4,725,840	2,251,200	6,977,040
Base Course	m3	840.0	3,861	2,290	3,243,240	1,923,600	5,166,840
Shoulder	m2	15000.0	256	145	3,840,000	2,175,000	6,015,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	12000.0	601	595	7,212,000	7,140,000	14,352,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		19,576,920	13,828,400	33,405,320
Overhead (15%)					2,936,538	2,074,260	5,010,798
			TOTAL COST		22,513,458	15,902,660	38,416,118
Manual routine maintenance of road	Km	3.0	116,160	7,236	348,480	21,708	370,188
Routine maintenance of asphalt road	Km	3.0	307,900	137,100	923,700	411,300	1,335,000
			Sub Total		1,272,180	433,008	1,705,188
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement		Unit Cost	(Rp/Km)	:	12,805,373
Timber	Bridge	Unit Cost	(Rp/m2)	:	
Concrete	Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value		(Rp)	:	5,917,296
Maintenance	Rate without Bridge		(%)	:	4.44
New Bridge	Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 130 (IIIB-1) LENGTH : 4 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	692.0	2,813	1,340	1,946,596	927,280	2,873,876
Base Course	m3	1120.0	3,861	2,290	4,324,320	2,564,800	6,889,120
Shoulder	m2	22000.0	256	145	5,632,000	3,190,000	8,822,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	16000.0	601	595	9,616,000	9,520,000	19,136,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	39,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		21,518,916	16,202,080	37,720,996
Overhead (15%)					3,227,837	2,430,312	5,658,149
			TOTAL COST		24,746,753	18,632,392	43,379,145
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,757	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	34.3	3,664	2,413	125,675	82,765	208,440

Earthwork & Pavement Unit Cost	(Rp/Km)	:	10,844,786
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	3,389,537
Maintenance Rate without Bridge	(%)	:	5.24
New Bridge Cost Rate	(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 125 (IIIB-1) LENGTH : 6 Km

UPGRADE : 9.0m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	45000.0	18	11	810,000	495,000	1,305,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	497.0	873	520	433,881	258,440	692,321
Sub Base Course	m3	2450.0	2,813	1,340	6,891,850	3,283,000	10,174,850
Base Course	m3	1225.0	3,861	2,290	4,729,725	2,805,250	7,534,975
Shoulder	m2	33000.0	256	145	8,448,000	4,785,000	13,233,000
Asphalt Patching	m2	22.0	3,079	1,371	67,738	30,162	97,900
Surface Dressing (Single)	m2	21000.0	601	595	12,621,000	12,495,000	25,116,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,939	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SEI	1.0	--	--	3,537,902	451,968	3,989,870
New Bridge (Concrete)	SEI	1.0	--	--	0	0	0
			Sub Total		37,540,096	24,603,820	62,143,916
Overhead (15%)					5,631,014	3,690,573	9,321,587
			TOTAL COST		43,171,110	28,294,393	71,465,503
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	28.0	7,257	1,120	203,196	31,360	234,556
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement		Unit Cost	(Rp/Km)	:	11,146,192
Timber	Bridge	Unit Cost	(Rp/m2)	:	163,870
Concrete	Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value		(Rp)	:	8,629,390
Maintenance Rate without Bridge			(%)	:	5.10
New Bridge	Cost Rate		(%)	:	6.42

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 123 (IIIA) LENGTH : 6 Km

UPGRADE : 12.0m road bed, 9.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	6000.0	144	90	864,000	540,000	1,404,000
Subgrade Preparation	m2	72000.0	18	11	1,296,000	792,000	2,088,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1388.0	873	520	1,211,724	721,760	1,933,484
Sub Base Course	m3	7560.0	2,813	1,340	21,266,280	10,130,400	31,396,680
Base Course	m3	4320.0	3,861	2,290	16,679,520	9,892,800	26,572,320
Shoulder	m2	18000.0	256	145	4,608,000	2,610,000	7,218,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	54000.0	740	935	39,960,000	50,490,000	90,450,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		85,985,524	75,176,960	161,062,484
Overhead (15%)					12,882,828	11,276,544	24,159,372
			TOTAL COST		98,768,352	86,453,504	185,221,856
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	34.3	3,664	2,413	125,675	82,765	208,440

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	30,870,309
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	31,760,424
Maintenance Rate without Bridge		(%)	:	1.84
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 114 (III-2) LENGTH : 4 Km

UPGRADE : 6.5m road bed, 3.5m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	8000.0	144	90	1,152,000	720,000	1,872,000
Subgrade Preparation	m2	26000.0	18	11	468,000	286,000	754,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	142.0	873	520	123,966	73,840	197,806
Sub Base Course	m3	1960.0	2,813	1,340	5,513,480	2,626,400	8,139,880
Base Course	m3	840.0	3,861	2,290	3,243,240	1,923,600	5,166,840
Shoulder	m2	12000.0	256	145	3,072,000	1,740,000	4,812,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,738	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		13,572,686	7,369,840	20,942,526
Overhead (15%)					2,035,902	1,105,476	3,141,378
			TOTAL COST		15,608,588	8,475,316	24,083,904
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of gravel road	Km	4.0	168,711	87,777	674,844	351,108	1,025,952
			Sub Total		1,139,484	380,052	1,519,536
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	6,020,976
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,069,940
Maintenance Rate without Bridge		(%)	:	6.31
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 112 (IIID-1) LENGTH : 6 Km

UPGRADE : 7.0m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	897.8	2,813	1,340	2,525,511	1,203,052	3,728,563
Base Course	m3	1470.0	3,861	2,290	5,675,670	3,366,300	9,041,970
Shoulder	m2	21000.0	256	145	5,376,000	3,045,000	8,421,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	21000.0	601	595	12,621,000	12,495,000	25,116,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		26,198,181	20,109,352	46,307,533
Overhead (15%)					3,929,727	3,016,402	6,946,129
			TOTAL COST		30,127,908	23,125,754	53,253,662
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	96.0	3,664	2,413	351,744	231,648	583,392

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	8,875,610
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,418,388
Maintenance Rate without Bridge		(%)	:	6.40
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 111 (IIIB-1) LENGTH : 7 Km

UPGRADE : 7.0m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1050.0	2,813	1,340	2,953,650	1,407,000	4,360,650
Base Course	m3	1715.0	3,861	2,290	6,621,615	3,927,350	10,548,965
Shoulder	m2	24500.0	256	145	6,272,000	3,552,500	9,824,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	24500.0	601	595	14,724,500	14,577,500	29,302,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,803	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		30,571,765	23,464,350	54,036,115
Overhead (15%)					4,585,764	3,519,652	8,105,416
			TOTAL COST		35,157,529	26,984,002	62,141,531
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of asphalt road	Km	7.0	307,900	137,100	2,155,300	959,700	3,115,000
			Sub Total		2,968,420	1,010,352	3,978,772
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	34.3	3,664	2,413	125,675	82,765	208,440

Earthwork & Pavement		Unit Cost	(Rp/Km)	:	8,877,362
Timber	Bridge	Unit Cost	(Rp/m2)	:	
Concrete	Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value		(Rp)	:	5,162,248
Maintenance Rate without Bridge			(%)	:	6.40
New Bridge	Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 110 (IIIA) LENGTH : 5 Km

UPGRADE : 11.0m road bed, 8.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	COST TOTAL
Site Clearance in Light Bush	m2	10000.0	144	90	1,440,000	900,000	2,340,000
Subgrade Preparation	m2	55000.0	18	11	990,000	605,000	1,595,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	312.0	873	520	272,376	162,240	434,616
Sub Base Course	m3	5600.0	2,813	1,340	15,752,800	7,504,000	23,256,800
Base Course	m3	3200.0	3,861	2,290	12,355,200	7,328,000	19,683,200
Shoulder	m2	15000.0	256	145	3,840,000	2,175,000	6,015,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40000.0	740	935	29,600,000	37,400,000	67,000,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		64,250,376	56,074,240	120,324,616
Overhead (15%)					9,637,556	8,411,136	18,048,692
			TOTAL COST		73,887,932	64,485,376	138,373,308
Manual routine maintenance of road	Km	5.0	116,160	7,236	580,800	36,180	616,980
Routine maintenance of asphalt road	Km	5.0	307,900	137,100	1,539,500	685,500	2,225,000
			Sub Total		2,120,300	721,680	2,841,980
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	27,674,662
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	23,526,240
Maintenance Rate without Bridge		(%)	:	2.05
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 107 (111A) LENGTH : 6 Km

UPGRADE : 11.0m road bed, 8.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	12000.0	144	90	1,728,000	1,080,000	2,808,000
Subgrade Preparation	m2	66000.0	18	11	1,188,000	726,000	1,914,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	328.0	873	520	286,344	170,560	456,904
Sub Base Course	m3	6720.0	2,813	1,340	18,903,360	9,004,800	27,908,160
Base Course	m3	3840.0	3,861	2,290	14,826,240	8,793,600	23,619,840
Shoulder	m2	18000.0	256	145	4,608,000	2,610,000	7,218,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	48000.0	740	935	35,520,000	44,880,000	80,400,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	12.0	51,373	38,938	616,476	467,256	1,083,732
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		77,731,744	67,749,379	145,481,123
Overhead (15%)					11,659,761	10,162,406	21,822,167
			TOTAL COST		89,391,505	77,911,785	167,303,290
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	84.0	3,684	2,413	307,776	202,692	510,468

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	27,883,882
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	28,231,488
Maintenance Rate without Bridge		(%)	:	2.04
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 102 (IIIA) LENGTH : 12 Km

UPGRADE : 8.5m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	17000.0	18	11	306,000	187,000	493,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	860.0	873	520	750,780	447,200	1,197,980
Sub Base Course	m3	3364.3	2,813	1,340	9,463,775	4,508,162	13,971,937
Base Course	m3	4320.0	3,861	2,290	16,679,520	9,892,800	26,572,320
Shoulder	m2	48000.0	256	145	12,288,000	6,960,000	19,248,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	54000.0	740	935	39,960,000	50,490,000	90,450,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	12.0	51,373	38,938	616,476	467,256	1,083,732
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		80,119,875	72,969,581	153,089,456
Overhead (15%)					12,017,981	10,945,437	22,963,418
			TOTAL COST		92,137,856	83,915,018	176,052,874
Manual routine maintenance of road	Km	12.0	116,160	7,236	1,393,920	86,832	1,480,752
Routine maintenance of asphalt road	Km	12.0	307,900	137,100	3,694,800	1,645,200	5,340,000
			Sub Total		5,088,720	1,732,032	6,820,752
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	34.3	3,664	2,413	125,675	82,765	208,440

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,671,073
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	17,820,629
Maintenance Rate without Bridge		(%)	:	3.87
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 100 (IIIA) LENGTH : 30 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	4440.0	873	520	3,876,120	2,308,800	6,184,920
Sub Base Course	m3	8666.0	2,813	1,340	24,377,458	11,612,440	35,989,898
Base Course	m3	10800.0	3,861	2,290	41,698,800	24,732,000	66,430,800
Shoulder	m2	135000.0	256	145	34,560,000	19,575,000	54,135,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	135000.0	740	935	99,900,000	126,225,000	226,125,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	8.0	51,373	38,938	410,984	311,504	722,488
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	1.5	36,883	11,442	55,324	17,163	72,487
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		204,878,686	184,781,907	389,660,593
Overhead (15%)					30,731,802	27,717,286	58,449,088
			TOTAL COST		235,610,488	212,499,193	448,109,681
Manual routine maintenance of road	Km	30.0	116,160	7,236	3,484,800	217,080	3,701,880
Routine maintenance of asphalt road	Km	30.0	307,900	137,100	9,237,000	4,113,000	13,350,000
			Sub Total		12,721,800	4,330,080	17,051,880
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,490	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	151.9	3,664	2,413	556,561	366,534	923,095

Earthwork & Pavement	Unit Cost	(Rp/Km)	: 14,936,989
Timber Bridge	Unit Cost	(Rp/m2)	:
Concrete Bridge	Unit Cost	(Rp/m2)	:
Survived Value		(Rp)	: 45,399,618
Maintenance Rate without Bridge		(%)	: 3.81
New Bridge Cost Rate		(%)	:

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINE NO : 96 (IIIA) LENGTH : 12 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1622.0	2,813	1,340	4,562,686	2,173,480	6,736,166
Base Course	m3	3840.0	3,861	2,290	14,826,240	8,793,600	23,619,840
Shoulder	m2	66000.0	256	145	16,896,000	9,570,000	26,466,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	48000.0	740	935	35,520,000	44,880,000	80,400,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		71,804,926	65,417,080	137,222,006
Overhead (15%)					10,770,738	9,812,562	20,583,300
			TOTAL COST		82,575,664	75,229,642	157,805,306
Manual routine maintenance of road	Km	12.0	116,160	7,236	1,393,920	86,832	1,480,752
Routine maintenance of asphalt road	Km	12.0	307,900	137,100	3,694,800	1,645,200	5,340,000
			Sub Total		5,088,720	1,732,032	6,820,752
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,066	0	0	0
Maintenance of Timber Bridge (Exist)	m2	95.0	6,957	2,400	660,915	228,000	888,915
Maintenance of Concrete Bridge (Exist)	m2	20.0	3,664	2,413	73,280	48,260	121,540

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,150,442
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	11,293,892
Maintenance Rate without Bridge		(%)	:	4.32
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 93 (IIIA) LENGTH : 20 Km

UPGRADE : 10.0m road bed, 7.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	6400.0	144	90	921,600	576,000	1,497,600
Subgrade Preparation	m2	200000.0	18	11	3,600,000	2,200,000	5,800,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	4058.0	873	520	3,542,634	2,110,160	5,652,794
Sub Base Course	m3	19600.0	2,813	1,340	55,134,800	26,264,000	81,398,800
Base Course	m3	11200.0	3,861	2,290	43,243,200	25,648,000	68,891,200
Shoulder	m2	60000.0	256	145	15,360,000	8,700,000	24,060,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	140000.0	740	935	103,600,000	130,900,000	234,500,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		225,402,234	196,398,160	421,800,394
Overhead (15%)					33,810,335	29,459,724	63,270,059
			TOTAL COST		259,212,569	225,857,884	485,070,453
Manual routine maintenance of road	Km	20.0	116,160	7,236	2,323,200	144,720	2,467,920
Routine maintenance of asphalt road	Km	20.0	307,900	137,100	6,158,000	2,742,000	8,900,000
			Sub Total		8,481,200	2,886,720	11,367,920
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	24,253,523
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	82,341,840
Maintenance Rate without Bridge		(%)	:	2.34
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 87 (IIIA) LENGTH : 20 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	95000.0	18	11	1,710,000	1,045,000	2,755,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1096.0	873	520	956,808	569,920	1,526,728
Sub Base Course	m3	7284.0	2,813	1,340	20,489,892	9,760,560	30,250,452
Base Course	m3	6400.0	3,861	2,290	24,710,400	14,656,000	39,366,400
Shoulder	m2	110000.0	256	145	28,160,000	15,950,000	44,110,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	80000.0	740	935	59,200,000	74,800,000	134,000,000
Earth Drain	m	2000.0	721	118	1,442,000	236,000	1,678,000
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		136,669,100	117,017,480	253,686,580
Overhead (15%)					20,500,365	17,552,622	38,052,987
			TOTAL COST		157,169,465	134,570,102	291,739,567
Manual routine maintenance of road	Km	20.0	116,160	7,236	2,323,200	144,720	2,467,920
Routine maintenance of asphalt road	Km	20.0	307,900	137,100	6,158,000	2,742,000	8,900,000
			Sub Total		8,481,200	2,886,720	11,367,920
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost		(Rp/Km)	:	14,586,978
Timber	Bridge	Unit Cost	(Rp/m2)	:	
Concrete	Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value		(Rp)	:	34,041,961
Maintenance	Rate without Bridge		(%)	:	3.90
New Bridge	Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 69 (IIIB-1) LENGTH : 8 Km

UPGRADE : 8.5m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	974.8	2,813	1,340	2,742,112	1,306,232	4,048,344
Base Course	m3	1960.0	3,861	2,290	7,567,560	4,488,400	12,055,960
Shoulder	m2	40000.0	256	145	10,240,000	5,800,000	16,040,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	28000.0	601	595	16,828,000	16,660,000	33,488,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		37,377,672	28,254,632	65,632,304
Overhead (15%)					5,606,650	4,238,194	9,844,844
			TOTAL COST		42,984,322	32,492,826	75,477,148
Manual routine maintenance of road	Km	8.0	116,160	7,236	929,280	57,888	987,168
Routine maintenance of asphalt road	Km	8.0	307,900	137,100	2,463,200	1,096,800	3,560,000
			Sub Total		3,392,480	1,154,688	4,547,168
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	32.0	3,664	2,413	117,248	77,216	194,464

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	9,434,644
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,245,032
Maintenance Rate without Bridge		(%)	:	6.02
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 65 (IIIA) LENGTH : 9 Km

UPGRADE : 7.5m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	52500.0	18	11	945,000	577,500	1,522,500
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	547.0	873	520	477,531	284,440	761,971
Sub Base Course	m3	4926.3	2,813	1,340	13,857,681	6,601,241	20,458,922
Base Course	m3	3240.0	3,861	2,290	12,509,640	7,419,600	19,929,240
Shoulder	m2	27000.0	256	145	6,912,000	3,915,000	10,827,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40500.0	740	935	29,970,000	37,867,500	67,837,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	7,656,753	5,336,120	12,992,873
			Sub Total		72,328,605	62,001,401	134,330,006
Overhead (15%)					10,849,290	9,300,210	20,149,500
			TOTAL COST		83,177,895	71,301,611	154,479,506
Manual routine maintenance of road	Km	9.0	116,160	7,236	1,045,440	65,124	1,110,564
Routine maintenance of asphalt road	Km	9.0	307,900	137,100	2,771,100	1,233,900	4,005,000
			Sub Total		3,816,540	1,299,024	5,115,564
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	27.0	1,676	2,866	45,252	77,382	122,634
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	39.2	3,664	2,413	143,628	94,587	238,217

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	15,504,189
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	553,400
Survived Value		(Rp)	:	27,845,883
Maintenance Rate without Bridge		(%)	:	3.67
New Bridge Cost Rate		(%)	:	9.67

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 64 (IIIA) LENGTH : 9 Km

UPGRADE : 8.5m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1260.0	873	520	1,099,980	655,200	1,755,180
Sub Base Course	m3	2329.3	2,813	1,340	6,552,320	3,121,262	9,673,582
Base Course	m3	3240.0	3,861	2,290	12,509,640	7,419,600	19,929,240
Shoulder	m2	36000.0	256	145	9,216,000	5,220,000	14,436,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40500.0	740	935	29,970,000	37,867,500	67,837,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		59,347,940	54,283,562	113,631,502
Overhead (15%)					8,902,191	8,142,534	17,044,725
			TOTAL COST		68,250,131	62,426,096	130,676,227
Manual routine maintenance of road	Km	9.0	116,160	7,236	1,045,440	65,124	1,110,564
Routine maintenance of asphalt road	Km	9.0	307,900	137,100	2,771,100	1,233,900	4,005,000
			Sub Total		3,816,540	1,299,024	5,115,564
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	24.5	6,957	2,400	170,446	58,800	229,246
Maintenance of Concrete Bridge (Exist)	m2	58.8	3,664	2,413	215,443	141,884	357,327

Earthwork & Pavement Unit Cost	(Rp/Km)	:	14,519,581
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	12,721,175
Maintenance Rate without Bridge	(%)	:	3.91
New Bridge Cost Rate	(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 62 (IIIA) LENGTH : 15 Km

UPGRADE : 8.0m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	104000.0	18	11	1,872,000	1,144,000	3,016,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	384.0	873	520	335,232	199,680	534,912
Sub Base Course	m3	7544.0	2,813	1,340	21,221,272	10,108,960	31,330,232
Base Course	m3	4800.0	3,861	2,290	18,532,800	10,992,000	29,524,800
Shoulder	m2	60000.0	256	145	15,360,000	8,700,000	24,060,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	60000.0	740	935	44,400,000	56,100,000	100,500,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	30,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	10,424,442	13,359,224	23,783,666
			Sub Total		112,145,746	100,603,864	212,749,610
Overhead (15%)					16,821,861	15,090,579	31,912,440
			TOTAL COST		128,967,607	115,694,443	244,662,050
Manual routine maintenance of road	Km	15.0	116,160	7,236	1,742,400	108,540	1,850,940
Routine maintenance of asphalt road	Km	15.0	307,900	137,100	4,618,500	2,056,500	6,675,000
			Sub Total		6,360,900	2,165,040	8,525,940
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	67.5	1,676	2,866	113,130	193,455	306,585
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,487,389
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	405,203
Survived Value		(Rp)	:	44,337,218
Maintenance Rate without Bridge		(%)	:	3.92
New Bridge Cost Rate		(%)	:	11.18

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 168 (III0-1) LENGTH : 4 Km

UPGRADE : 8.5m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	25500.0	18	11	459,000	280,500	739,500
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	77.0	873	520	67,221	40,040	107,261
Sub Base Course	m3	1807.8	2,813	1,340	5,085,341	2,422,452	7,507,793
Base Course	m3	1470.0	3,861	2,290	5,675,670	3,366,300	9,041,970
Shoulder	m2	30000.0	256	145	7,680,000	4,350,000	12,030,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	21000.0	601	595	12,621,000	12,495,000	25,116,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		31,588,232	22,954,292	54,542,524
Overhead (15%)					4,738,234	3,443,143	8,181,377
			TOTAL COST		36,326,466	26,397,435	62,723,901
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of asphalt road	Km	6.0	307,900	137,100	1,847,400	822,600	2,670,000
			Sub Total		2,544,360	866,016	3,410,376
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	96.0	3,664	2,413	351,744	231,648	583,392

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,453,984
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	7,063,849
Maintenance Rate without Bridge		(%)	:	5.44
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 61 (IIIA) LENGTH : 4 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	560.0	873	520	488,880	291,200	780,080
Sub Base Course	m3	1158.5	2,813	1,340	3,258,860	1,552,390	4,811,250
Base Course	m3	1440.0	3,861	2,290	5,559,840	3,297,600	8,857,440
Shoulder	m2	18000.0	256	145	4,608,000	2,610,000	7,218,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	18000.0	740	935	13,320,000	16,830,000	30,150,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		27,235,580	24,581,190	51,816,770
Overhead (15%)					4,085,337	3,687,178	7,772,515
			TOTAL COST		31,320,917	28,268,368	59,589,285
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	68.6	3,664	2,413	251,350	165,531	416,881

Earthwork & Pavement	Unit Cost	(Rp/Km)	:		14,877,321
Timber Bridge	Unit Cost	(Rp/m2)	:		
Concrete Bridge	Unit Cost	(Rp/m2)	:		
Survived Value		(Rp)	:		6,063,360
Maintenance Rate without Bridge		(%)	:		3.82
New Bridge Cost Rate		(%)	:		

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 60 (IIIB-2) LENGTH : 6 Km

UPGRADE : 9.0m road bed, 3.5m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	710.5	2,813	1,340	1,998,636	952,070	2,950,706
Base Course	m3	1260.0	3,861	2,290	4,864,860	2,885,400	7,750,260
Shoulder	m2	33000.0	256	145	8,448,000	4,785,000	13,233,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		15,311,496	8,622,470	23,933,966
Overhead (15%)					2,296,724	1,293,370	3,590,094
			TOTAL COST		17,608,220	9,915,840	27,524,060
Manual routine maintenance of road	Km	6.0	116,160	7,236	696,960	43,416	740,376
Routine maintenance of gravel road	Km	6.0	168,711	87,777	1,012,266	526,662	1,538,928
			Sub Total		1,709,226	570,078	2,279,304
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	91.0	3,664	2,413	333,424	219,583	553,007

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	4,587,343
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	1,475,353
Maintenance Rate without Bridge		(%)	:	8.28
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 59 (IIIA) LENGTH : 7 Km

UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	COST TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	630.0	873	520	549,990	327,600	877,590
Sub Base Course	m3	1777.3	2,813	1,340	4,999,544	2,381,582	7,381,126
Base Course	m3	2520.0	3,861	2,290	9,729,720	5,770,800	15,500,520
Shoulder	m2	17500.0	256	145	4,480,000	2,537,500	7,017,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	31500.0	740	935	23,310,000	29,452,500	52,762,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	16.0	51,373	38,938	821,968	623,008	1,444,976
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	745	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	17.9	36,883	11,442	660,205	204,811	865,016
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		44,551,427	41,297,801	85,849,228
Overhead (15%)					6,682,714	6,194,670	12,877,384
			TOTAL COST		51,234,141	47,492,471	98,726,612
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of asphalt road	Km	7.0	307,900	137,100	2,155,300	959,700	3,115,000
			Sub Total		2,968,420	1,010,352	3,978,772
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	179.0	3,664	2,413	655,856	431,927	1,087,783

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,103,802
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	9,780,030
Maintenance Rate without Bridge		(%)	:	4.03
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 58 (IIIA) LENGTH : 16 Km

UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1750.0	873	520	1,527,750	910,000	2,437,750
Sub Base Course	m3	3083.0	2,813	1,340	8,672,479	4,131,220	12,803,699
Base Course	m3	3240.0	3,861	2,290	12,509,640	7,419,600	19,929,240
Shoulder	m2	40000.0	256	145	10,240,000	5,800,000	16,040,000
Asphalt Patching	m2	461.0	3,079	1,371	1,419,419	632,031	2,051,450
Surface Dressing (Single)	m2	31500.0	601	595	18,931,500	18,742,500	37,674,000
Surface Dressing (Double)	m2	40500.0	740	935	29,970,000	37,867,500	67,837,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	9,550,158	10,340,330	19,898,488
			Sub Total		92,828,946	85,843,181	178,672,127
Overhead (15%)					13,924,341	12,876,477	26,800,818
			TOTAL COST		106,753,287	98,719,658	205,472,945
Manual routine maintenance of road	Km	16.0	116,160	7,236	1,858,560	115,776	1,974,336
Routine maintenance of asphalt road	Km	16.0	307,900	137,100	4,926,400	2,193,600	7,120,000
			Sub Total		6,784,960	2,309,376	9,094,336
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	49.5	1,676	2,866	82,962	141,867	224,829
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	213.7	3,664	2,413	783,143	515,754	1,298,897

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	11,411,855
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	462,288
Survived Value		(Rp)	:	25,037,706
Maintenance Rate without Bridge		(%)	:	4.98
New Bridge Cost Rate		(%)	:	11.14

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 55 (IIIB-1) LENGTH : 10 Km

UPGRADE : 6.5m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	2500.0	144	90	360,000	225,000	585,000
Subgrade Preparation	m2	19500.0	18	11	351,000	214,500	565,500
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	360.0	873	520	314,280	187,200	501,480
Sub Base Course	m3	2900.0	2,813	1,340	8,157,700	3,886,000	12,043,700
Base Course	m3	2800.0	3,861	2,290	10,810,800	6,412,000	17,222,800
Shoulder	m2	25000.0	256	145	6,400,000	3,625,000	10,025,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	40000.0	601	595	24,040,000	23,800,000	47,840,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	15.0	36,883	11,442	553,245	171,630	724,875
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		50,987,025	38,521,330	89,508,355
Overhead (15%)					7,648,053	5,778,199	13,426,252
			TOTAL COST		58,635,078	44,299,529	102,934,607
Manual routine maintenance of road	Km	10.0	116,160	7,236	1,161,600	72,360	1,233,960
Routine maintenance of asphalt road	Km	10.0	307,900	137,100	3,079,000	1,371,000	4,450,000
			Sub Total		4,240,600	1,443,360	5,683,960
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	201.0	3,664	2,413	736,464	485,013	1,221,477

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,293,461
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	11,875,150
Maintenance Rate without Bridge		(%)	:	5.52
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 54 (111A) LENGTH : 4 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	578.0	2,813	1,340	1,625,914	774,520	2,400,434
Base Course	m3	1280.0	3,861	2,290	4,942,080	2,931,200	7,873,280
Shoulder	m2	22000.0	256	145	5,632,000	3,190,000	8,822,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	16000.0	740	935	11,840,000	14,960,000	26,800,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		24,039,994	21,855,720	45,895,714
Overhead (15%)					3,605,999	3,278,358	6,884,357
			TOTAL COST		27,645,993	25,134,078	52,780,071
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of asphalt road	Km	4.0	307,900	137,100	1,231,600	548,400	1,780,000
			Sub Total		1,696,240	577,344	2,273,584
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	39.2	3,664	2,413	143,628	94,589	238,217

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,195,018
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	3,888,667
Maintenance Rate without Bridge		(%)	:	4.31
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 51 (IIIA) LENGTH : 10 Km

UPGRADE : 7.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1708.0	2,813	1,340	4,804,604	2,288,720	7,093,324
Base Course	m3	3200.0	3,861	2,290	12,355,200	7,328,000	19,683,200
Shoulder	m2	35000.0	256	145	8,960,000	5,075,000	14,035,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40000.0	740	935	29,600,000	37,400,000	67,000,000
Earth Drain	m	4000.0	721	118	2,884,000	472,000	3,356,000
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		58,603,804	52,563,720	111,167,524
Overhead (15%)					8,790,570	7,884,558	16,675,128
			TOTAL COST		67,394,374	60,448,278	127,842,652
Manual routine maintenance of road	Km	10.0	116,160	7,236	1,161,600	72,360	1,233,960
Routine maintenance of asphalt road	Km	10.0	307,900	137,100	3,079,000	1,371,000	4,450,000
			Sub Total		4,240,600	1,443,360	5,683,960
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	34.3	3,664	2,413	125,675	82,765	208,440

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	12,784,265
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	10,595,459
Maintenance Rate without Bridge		(%)	:	4.45
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 49 (IIIA) LENGTH : 9 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	10	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1506.0	2,813	1,340	4,461,418	2,125,240	6,586,658
Base Course	m3	2080.0	3,861	2,290	11,119,680	6,595,200	17,714,880
Shoulder	m2	49500.0	256	145	12,672,000	7,177,500	19,849,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	36000.0	740	935	26,640,000	33,660,000	60,300,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		54,893,098	49,557,940	104,451,038
Overhead (15%)					8,233,964	7,433,691	15,667,655
			TOTAL COST		63,127,062	56,991,631	120,118,693
Manual routine maintenance of road	Km	9.0	116,160	7,236	1,045,440	65,124	1,110,564
Routine maintenance of asphalt road	Km	9.0	307,900	137,100	2,771,100	1,233,900	4,005,000
			Sub Total		3,816,540	1,299,024	5,115,564
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	27.0	3,664	2,413	98,928	65,151	164,079

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,346,522
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	9,698,046
Maintenance Rate without Bridge		(%)	:	4.26
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 45 (IIIB-2) LENGTH : 4 Km

UPGRADE : 6.5m road bed, 3.5m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	COST TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	37.0	873	520	32,301	19,240	51,541
Sub Base Course	m3	645.0	2,813	1,340	1,814,385	864,300	2,678,685
Base Course	m3	840.0	3,861	2,290	3,243,240	1,923,600	5,166,840
Shoulder	m2	20000.0	256	145	5,120,000	2,900,000	8,020,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	8.0	38,324	48,854	306,592	390,832	697,424
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	40.2	36,883	11,442	1,482,696	459,968	1,942,664
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		11,999,214	6,557,940	18,557,154
Overhead (15%)					1,799,882	983,691	2,783,573
			TOTAL COST		13,799,096	7,541,631	21,340,727
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of gravel road	Km	4.0	168,711	87,777	674,844	351,108	1,025,952
			Sub Total		1,139,484	380,052	1,519,536
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	5,335,182
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	1,339,342
Maintenance Rate without Bridge		(%)	:	7.12
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 44 (IIIA) LENGTH : 10 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1698.0	2,813	1,340	4,776,474	2,275,320	7,051,794
Base Course	m3	3200.0	3,861	2,290	12,355,200	7,328,000	19,683,200
Shoulder	m2	55000.0	256	145	14,080,000	7,975,000	22,055,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40000.0	740	935	29,600,000	37,400,000	67,000,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		60,811,674	54,978,320	115,789,994
Overhead (15%)					9,121,751	8,246,748	17,368,499
			TOTAL COST		69,933,425	63,225,068	133,158,493
Manual routine maintenance of road	Km	10.0	116,160	7,236	1,161,600	72,360	1,233,960
Routine maintenance of asphalt road	Km	10.0	307,900	137,100	3,079,000	1,371,000	4,450,000
			Sub Total		4,240,600	1,443,360	5,683,960
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,864	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,315,849
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	10,562,235
Maintenance Rate without Bridge		(%)	:	4.27
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 38 (IIIA) LENGTH : 17 Km

UPGRADE : 9.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	TOTAL >>>>>>
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	190.0	873	520	165,870	98,800	264,670
Sub Base Course	m3	2846.0	2,813	1,340	8,005,798	3,813,640	11,819,438
Base Course	m3	5440.0	3,861	2,290	21,003,840	12,457,600	33,461,440
Shoulder	m2	93500.0	256	145	23,936,000	13,557,500	37,493,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	68000.0	740	935	50,320,000	63,580,000	113,900,000
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	33.0	51,373	38,938	1,695,309	1,284,954	2,980,263
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	33.8	36,883	11,442	1,246,645	386,739	1,633,384
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		106,373,462	95,179,233	201,552,695
Overhead (15%)					15,956,019	14,276,884	30,232,903
			TOTAL COST		122,329,481	109,456,117	231,785,598
Manual routine maintenance of road	Km	17.0	116,160	7,236	1,974,720	123,012	2,097,732
Routine maintenance of asphalt road	Km	17.0	307,900	137,100	5,234,300	2,330,700	7,565,000
			Sub Total		7,209,020	2,453,712	9,662,732
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	186.2	3,664	2,413	682,236	449,300	1,131,536

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,634,447
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	17,820,910
Maintenance Rate without Bridge		(%)	:	4.17
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 36 (IIIB-1) LENGTH : 9 Km

UPGRADE : 7.5m road bed, 3.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	30000.0	18	11	540,000	330,000	870,000
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	322.0	873	520	281,106	167,440	448,546
Sub Base Course	m3	2747.0	2,813	1,340	7,727,311	3,680,980	11,408,291
Base Course	m3	2205.0	3,861	2,290	8,513,505	5,049,450	13,562,955
Shoulder	m2	36000.0	256	145	9,216,000	5,220,000	14,436,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	31500.0	601	595	18,931,500	18,742,500	37,674,000
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		45,209,422	33,190,370	78,399,792
Overhead (15%)					6,781,413	4,978,555	11,759,968
			TOTAL COST		51,990,835	38,168,925	90,159,760
Manual routine maintenance of road	Km	9.0	116,160	7,236	1,045,440	65,124	1,110,564
Routine maintenance of asphalt road	Km	9.0	307,900	137,100	2,771,100	1,233,900	4,005,000
			Sub Total		3,816,540	1,299,024	5,115,564
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	299.7	3,664	2,413	1,098,100	723,176	1,821,276

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,017,751
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	10,698,394
Maintenance Rate without Bridge		(%)	:	5.67
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 35 (IIIB-2) LENGTH : 4 Km

UPGRADE : 6.5m road bed, 3.5m road with surface Base Cource

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	676.5	2,813	1,340	1,902,994	906,510	2,809,504
Base Course	m3	840.0	3,861	2,290	3,243,240	1,923,600	5,166,840
Shoulder	m2	12000.0	256	145	3,072,000	1,740,000	4,812,000
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	36,883	11,442	0	0	0
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		8,218,234	4,570,110	12,788,344
Overhead (15%)					1,232,735	685,516	1,918,251
			TOTAL COST		9,450,969	5,255,626	14,706,595
Manual routine maintenance of road	Km	4.0	116,160	7,236	464,640	28,944	493,584
Routine maintenance of gravel road	Km	4.0	168,711	87,777	674,844	351,108	1,025,952
			Sub Total		1,139,484	380,052	1,519,536
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	3,664	2,413	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	3,676,649
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	1,404,752
Maintenance Rate without Bridge		(%)	:	10.33
New Bridge Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 30 (IIID-2) LENGTH : 7 Km

UPGRADE : 2.5m road bed, 4.0m road with surface Base Cource

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL	FOREIGN	<<<<<< COST LOCAL	FOREIGN	>>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	0.0	873	520	0	0	0
Sub Base Course	m3	1104.0	2,813	1,340	3,330,592	1,586,560	4,917,152
Base Course	m3	1680.0	3,861	2,290	6,486,480	3,847,200	10,333,680
Shoulder	m2	38500.0	256	145	9,856,000	5,582,500	15,438,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	0.0	740	935	0	0	0
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	24.0	51,373	38,938	1,232,952	934,512	2,167,464
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	34.4	36,883	11,442	1,268,775	393,604	1,662,379
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		22,174,799	12,344,376	34,519,175
Overhead (15%)					3,326,219	1,851,656	5,177,875
			TOTAL COST		25,501,018	14,196,032	39,697,050
Manual routine maintenance of road	Km	7.0	116,160	7,236	813,120	50,652	863,772
Routine maintenance of gravel road	Km	7.0	168,711	87,777	1,180,977	614,439	1,795,416
			Sub Total		1,994,097	665,091	2,659,188
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	58.8	3,664	2,413	215,443	141,884	357,327

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	5,671,007
Timber	Bridge	Unit Cost	(Rp/m2)	:	
Concrete	Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value		(Rp)	:	2,458,576
Maintenance Rate without Bridge			(%)	:	6.70
New Bridge	Cost Rate		(%)	:	

PROV : LAMPUNG KAB : LAMPUNG TENGAH

LINK NO : 34 (IIIA) LENGTH : 9 Km

UPGRADE : 9.0m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL	UNIT COST FOREIGN	COST LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	144	90	0	0	0
Subgrade Preparation	m2	0.0	18	11	0	0	0
Normal Fill	m3	0.0	1,484	859	0	0	0
Fill in Swamp	m3	0.0	2,208	1,047	0	0	0
Normal Excavation to Spoil	m3	1190.0	873	520	1,038,870	618,800	1,657,670
Sub Base Course	m3	2430.8	2,813	1,340	6,837,840	3,257,272	10,095,112
Base Course	m3	3240.0	3,861	2,290	12,509,640	7,419,600	19,929,240
Shoulder	m2	40500.0	256	145	10,368,000	5,872,500	16,240,500
Asphalt Patching	m2	0.0	3,079	1,371	0	0	0
Surface Dressing (Single)	m2	0.0	601	595	0	0	0
Surface Dressing (Double)	m2	40500.0	740	935	29,970,000	37,867,500	67,837,500
Earth Drain	m	0.0	721	118	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,039	472	0	0	0
Pipe Culvert D80cm	m	0.0	38,324	48,854	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,373	38,938	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	11,313	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	30.0	36,883	11,442	1,106,490	343,260	1,449,750
Gabion Protection	m3	0.0	24,904	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		61,830,840	55,378,932	117,209,772
Overhead (15%)					9,274,626	8,306,839	17,581,465
			TOTAL COST		71,105,466	63,685,771	134,791,237
Manual routine maintenance of road	Km	9.0	116,160	7,236	1,045,440	65,124	1,110,564
Routine maintenance of asphalt road	Km	9.0	307,900	137,100	2,771,100	1,233,900	4,005,000
			Sub Total		3,816,540	1,299,024	5,115,564
Maintenance of Timber Bridge (New)	m2	0.0	7,257	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,676	2,866	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	6,957	2,400	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	25.2	3,664	2,413	92,332	60,807	153,139

Earthwork & Pavement Unit Cost	(Rp/Km)	:	14,976,804
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	13,058,399
Maintenance Rate without Bridge	(%)	:	3.80
New Bridge Cost Rate	(%)	:	