

# APPENDIX



FOR ESTIMATION OF THE PRODUCER'S SURPLUS BENEFIT

PRV. : *SUMATERA SELATAN*

KAB. : *BANGKA*

SURVEY YEAR: *1984*

Code No.	KECAMATAN NAME	CULTIVATED AREA : (PA)	YIELD RATE : (Y)	FARMER'S POPULATION : (AP)	CIRCULATED COMMODITY : (PG)
01	MENTOK	1,883	0.26	0	4,640
02	JEBUS	3,572	0.15	0	2,880
03	KELAPA	4,317	0.22	0	2,930
04	BELINYU	3,785	0.24	0	4,860
05	SUNGAI LIAT	13,040	0.30	0	7,740
06	MERAWANG	1,758	0.31	0	2,970
07	MENDO BARAT	2,268	0.21	0	2,300
08	PANGKALAN BARU	1,009	0.16	0	4,410
09	SUNGAI SELATAN	2,090	0.27	0	2,560
10	PAYUNG	4,990	0.79	0	2,000
11	KOBA	3,492	0.70	0	2,610
12	TOBOLI	6,635	0.75	0	4,270
13	LEPAR PONDOK	312	0.19	0	850

	$r_1$	$r_2$	$r_3$	$r_4$	FARMER'S CONSUMPTION : (Cp)	NON-AGRO REQUIRMENT : (NG)
ANNUAL AVERAGE GROWTH RATE %		2.2		4.7	0 Ton/head/year	0.15 Ton/ton

	SEDAN	BUS	TRUCK	MOTOR CYCLE	AVERAGE FREIGHT TONAGE	
RATE OF EACH VEHICLE TYPE %	15.09	13.94	16.66	54.30		1.0 Ton/Truck

Appendix A-2 Engineering Data

## ROAD LINK DATA

PROVINCE : Sumatera Selatan

KABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Parit III	Tanjung RU	27	Jebus	27	33
02	Kedondong	Rukam	15	Jebus	15	32
03	Jebus	Kampa	5	Jebus	5	
04	Jebus	Sungai Buluh	4	Jebus	4	
05	Pelawan	Parit III	16	Jebus	16	34
06	Parit III	Penganak	11	Jebus	11	
07	Gunung Muda	Silip	16	Belinyu	16	
08	Simpang Mapur	Kuala Mapur	4	Belinyu	4	
09	Pangkol	Air Mapur	7	Mendo Barat	7	
10	Simpang Rimba	Bangka kota	6	Payung	6	
11	Kota Waringin	Puding Besar	25	Merawang	25	16
12	Sangku	Simpang Buyan	10	Kelapa Merawang	4.5 5.5	17
13	Kd. Mentok	Simpang Mapur	8	Belinyu	8	24
14	Jelutung	Bedukang	6	Kota Sungai Liat	6	
15	Simpang Rebo	Pantai Rebo	8	Kota Sungai Liat	8	25
16	Simpang Jurung	Sempan	12	Merawang	12	
17	Batu Ampar	Simpang Jurung	4	Merawang	4	
18	Penegang	Petaling	11	Merawang	6	
				Pkl. Pinang	5	
19	Air Duren	Pangkal Pinang	8	Pangkal Pinang	8	
20	Terabek	Air Belo	9	Mentok	9	42
21	Teritip	Air Nyato	17	Mentok	17	
22	Kemang Masam	Rambat	18	Mentok	18	
23	Mentok	Tanjung Ular	13	Mentok	13	
24	Pelangas	Kundi	24	Mentok	24	39

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 : Sumatera Selatan

KABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
25	Tempilang	Tj.Niur	15	Kelapa	15	19
25 a	Sangku	Tempilang	9	Kelapa	9	I.L.N no. 121
26	Kelapa	Beruas	6	Kelapa	6	
26 a	Beruas	Pusuk	6	Kelapa	6	I.L.N no. 122
27	Kelapa	Kayu Arang	19	Kelapa	19	
28	Penyampak	Sangku	7	Kelapa	7	18
28 a	Simpang Yul	Penyampak	14	Kelapa	14	I.L.N no. 130
29	KD. Koba	KL.Mapur	15	Belinyu	3	
				Kt.Sung.Liat	12	
30	Petaling	PKL.Menduk	18	Mendo Barat	18	
31	Pangkal Pinang	Sampur	4	Pangkal Pinang	4	
32	Sampur	Pangkol	9	Mendo Barat Pkl.Pinang	9	43
33	Pangkol	Belilik	15	Mendo Barat	15	44
34	Sp.Air Mesu	Kebinti	6	Mendo Barat	6	
35	Sigembir	Penyamun	8	Kota Sungai Liat	8	
36	Tanjung Berikat	Lubuk Besar	32	Koba	32	7
37	Payung	Simpang Rimba	28	Payung	28	1
38	Simpang Rimba	Sebagian	19	Payung	19	2
39	Bedengung	Payung	16	Payung	16	3
40	Bedengung	Batu Betumpang	23	Payung	23	4
41	Air Gegas	Bedengung	24	Payung	3	5
				Taboali	21	
42	Simpang Tanjung Antu	Tanjung Antu	3	Kota Sungai Liat	3	
43	Simpang Kepoh	Kepoh	13	Taboali	13	
44	Toboali	Tirem	24	Taboali	24	10
44 a	Tirem	Tukak	2	Taboali	2	I.L.N no. 123

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 : Sumatera Selatan

KABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
45	Toboali	Sungai Gunung	16	Taboali	16	9
46	Tirem	Pasir Putih	14	Taboali	14	11
47	Sadai	Pinang Tunggal	6	Taboali	6	12
48	Simpang Tanjung Sangkar	Tanjung Sangkar	10	Lepar Pondok	10	
49	Tanjung Labu	Penutuk	9	Lepar Pondok	9	
50	Lumut	Gedung	2	Belinyu	2	
51	Sencong	Mengkudung	11	Belinyu	11	
52	Belinyu	Simpang Tiga	5	Belinyu	5	
52 a	Simpang Tiga	Simpang Parit	5	Belinyu	5	I.L.N no. 124
52 b	Simpang Parit	Parit	11	Belinyu	11	I.L.N no. 125
52 c	Sp.Parit	Bubus	5	Belinyu	5	I.L.N no. 126
53	Simpang Tiga	Simpang Pesaren	7	Belinyu	7	27
54	Simpang Pesaren	Pesaren	9	Belinyu	9	29
55	Simpang Pesaren	Pejem	13	Belinyu	13	28
56	Simpang Mampur	Tuing	14	Belinyu	14	26
57	Pantai Rebo	Sungai Liat	15	Kota Sungai Liat	15	22
58	Sungai Liat	Bakam	39	Kota Sungai Liat	39	21
59	Kenanga	Tanjung Ratu	5	Kota Sungai Liat	5	
60	Bedukang	Sungai Liat	8	Kota Sungai Liat	8	23
61	Balunijuk	Jabe	7	Merawang	7	
62	Batu Rusa	Pukan	6	Merawang	6	
63	Buyan	Saing	5	Merawang	5	
64	Rukam	Petaling	14	Pangkal Pinang	14	13
65	Ps.Garam	Rukam	15	Mendo Barat	2	14
				Pkl. Pinang	13	

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 : Sumatera Selatan

KABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
65 a	Rukam	Kota Kapur	23	Pkl.Pinang Merawang	15.5 7.5	I.L.N no. 128
66	Simpang Ma - nunggal	Tuik	5	Kelapa	5	
66 a	Tuik	Beruas	6	Kelapa	6	I.L.N no. 129
67	Kacung	Pangkal Be - ras	12	Kelapa	12	
68	Simpang Bu - lin	Payak	9	Kelapa	9	30
69	Sungai Buluh	Pebuar	9	Jebus	9	
70	Pangkal Men - duk	Air Pandan	17	Merawang Pkl.Pinang	16.5 0.5	
71	Batu balai	Menjulang	3	Mentok	3	
72	Teluk Limau	Cupat	5	Jebus	5	35
73	Teluk Limau	Pala	4	Jebus	4	36
74	Pelawan	Teluk Limau	6	Jebus	6	37
75	Sinar Klabat	Pelawan	5	Jebus	5	38
76	Mayang	Rambat	12	Mentok	12	
77	Kampung Pa - sir	Simpang Kera - kas	9	Sei.Selan	9	
78	Munggu	Simpang Kam - pung Pasir	4	Sei.Selan Payung	0.5 3.5	
79	Koba	Lubuk Besar	33	Koba	33	6
80	Simpang Tepus	Tepus	27	Taboali	27	
81	Penganak	Jebu Darat	14	Jebus	14	
82	Jebus	Parit III	8	Jebus	8	
83	Bangka Kota	Munggu	9	Sei.Selon	9	20
84	Rebo	Air Anyer	13	Sungai Liat Merawang	6.5 6.5	
85	Lubuk Kelik	Simpang Pe - mali	8	Sungai Liat	8	
86	Tepus	Lubuk Besar	23	Koba	23	
87	Jl.A.Yani	Martadinata	14	Sungai Liat	14	

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 : Sumatera Selatan

KABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
88	Kantor Camat	Jl.Damai	3	Belinyu	3	
89	Jl.Baru	Jl.Balai	2	Merawang	2	
90	Sp.Air Duren	Sp.Surau	1	Petaling	1	
91	Jl.Begadang	Jl.Mari Ayu	2	Kelapa	2	
92	Jl.Tamansari		1	Jebus	1	
93	Jl.Senanghati	Jl.Yos.Sudarso	4	Mentok	4	
94	Jl.Baru	Jl. Balar	2	Sei Selan	2	
95	Jl. Laut	Jl.Senanghati	2	Koba	2	
96	Jl. Sp. SMP	Sp.Terminal	1	Payung	1	
97	Jl.Manunggal	Jl.Safri Rachmat	6	Taboali	6	
98	Simpang Ma- tras	Sungai Liat	5	Kota Sungai Liat	5	
99	Lampur	Keretak	9	Sungai Selan	9	
100	Payak	Rukam	7	Jebus Kelapa	1 6	31
101	Penyampak	Pancur	12	Kelapa	12	
102	Sukal	Terabek	13	Mentok	13	40
103	Kundi	Sukal	7	Mentok	7	41
104	Penagan	Tanjung Te- dung	10	Merawang	10	15
105	Bedukang	Deniang Laut	8	Sungai Liat	8	
106	Belanak	Kundi	3	Mentok	3	8
107	Sarang Mandi	Tanjung Te- dung	20	Sei.Selan Merawang	14 6	
108	Jl.Dlm.Kota Sungai Liat		84	Sungai Liat	84	
109	Jl.Dlm.Kota Belinyu		21	Belinyu	21	
110	Jl.Dlm.Kota Baturusa		7	Merawang	7	I.L.N no. 131
111	Jl.Dlm.Kota Petaling		2	Petaling	2	no. 137

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 DATAPROVINCE : Sumatera SelatanKABUPATEN: Bangka

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
112	Jl. Dlm. Kota Kelapa		5	Kelapa	5	I.L.N no. 138 no. 139
113	Jl. Dlm. Kota Jebus		5	Jebus	5	I.L.N no. 140 no. 143
114	Jl. Dlm. Kota Mentok		17	Mentok	17	
115	Jl. Dlm. Kota Sungai Selan		5	Sei. Selan	5	
116	Jl. Dlm. Kota Koba		15	Koba	15	
117	Jl. Dlm. Kota Payung		4	Payung	4	
118	Jl. Dlm. Kota Toboali		13	Toboali	13	
119	Simpang Kulur	Kulur Ilir	7	Koba	7	
120	Gengeb Jurung		4	Merawang	4	

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.

PROPINSI: Sumatera Selatan

E-02

KABUPATEN: Bangka

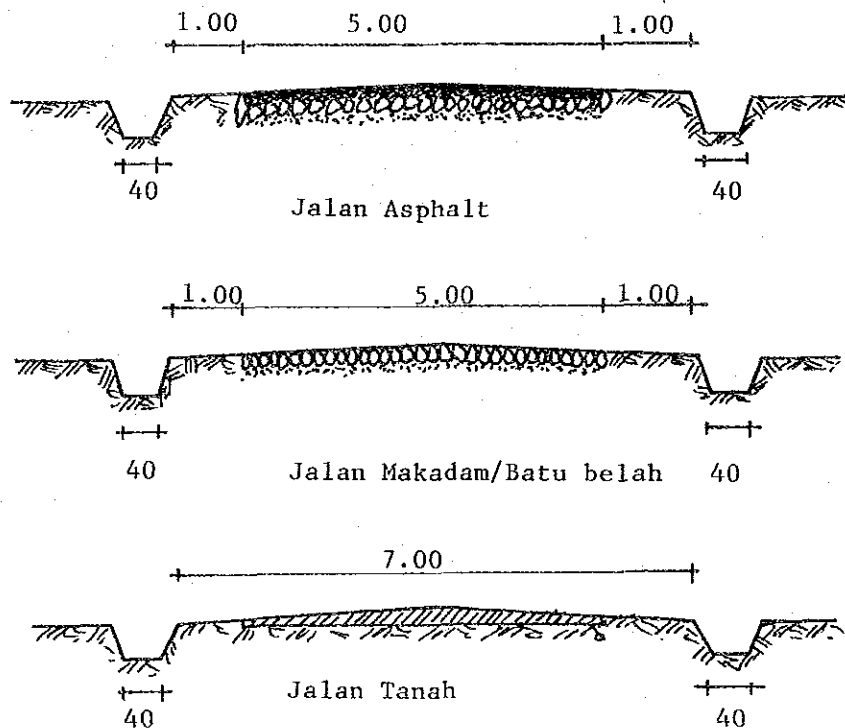
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?

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.



PROPINSI: Sumatera Selatan

KABUPATEN: Bangka

## LOCATION AND COSTS OF THE KABUPATEN

## ROADS CONSTRUCTED OR IMPROVED 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 per- kerasan(m)	Type per- kerasan	LENGTH Panjang  ( KM )	COSTS Harga (Rp 10 <sup>6</sup> )	REMARKS  Keterang- an
		Lebar Jembatan	Type Jembatan			
60	SP. Matras - Hakok - Matras	5	Earth	7		
		6	Beton	5 m		
87	Dalam Kota Sungailiat	5	Asphalt	4		
		-	-	-		
49	Penuntuk - Tj. Labu	5	Earth	23	81,325	
		6	Timber/Beton	39 m/3 m		
44	Toboali - Tirem - Tukak	5	Earth	12.5	11,812	
		-	-	-		
87	Dalam Kota Sungailiat	7	Asphalt	22	28,472	
		-	-	-		
46	Tirem - Pasir Putih	5	Earth	7	7,786	
		-	-	-		
47	Pinang Tunggal - Sadai	5	Earth	5	3,379	
		-	-	-		

\* 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

LINK NO. Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m)	Type perkerasan	LENGTH Panjang ( KM )	COSTS Harga (Rp 10 <sup>6</sup> )	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
58	Sungailiat - Bakan	5	Earth	20.95	49,706	
		6	Beton	6 m		
20	Sp. Air Bello - Bellolaut	5	Earth	5	15,990	
		4	Timber	21		
43	Sp.Kepoh-Rindik-Kepoh	5	Earth	12.7	25,278	
		4	Timber	26		
77	Sp.Karakas-Sp.Kp. Pasir - Kp. Pasir	5	Earth	9.13	51,360	
		4	Timber	8		
18	Petaling-Air Duren-Balunujuk - Penegang	5	Earth	15	28,539	
		-	-	-		
30	Petaling - Menduk	5	Earth	18	16,821	
		-	-	-		
15	Simpang Rebo - Pantai Rebo	5	Asphalt	7.7	-	
		-	-	-		
89	Dalam Kota Sungailiat	9	Asphalt	4	-	
		-	-	-		
64	Petaling - Rukom	5	Earth	15	-	
		6	Beton	16 m		
40	Bedengung - Batubetumbang	5	Earth	21	30,000	
		-	-	-		
94	Dalam Kota Sungaiselan	5	Earth	2.8	15,000	
		4	Timber	12 m		
49	Tanjunglabu -Tunjungsangka	5	Earth	26	55,000	
		-	-	-		

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

1. : Asphalt surface / penetrasi macadam
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3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

## ROADS CONSTRUCTED OR IMPROVED IN 1982/1983

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per-kerasan(m)		Type per-kerasan		LENGTH Panjang ( KM )	COSTS Harga (Rp 10 <sup>6</sup> )	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan	Type Jembatan	Type Jembatan			
46-47	Tirem - Pinang Tunggal - Pasir Putih - Sadai	5	Earth	20		94,050		
		6	Beton	23				
55	Sp. Pesaren - Tambang <sup>2</sup> - Pejam	5	Earth	8.2		77,900		
		6	Beton	54				
36	Lubuk Besar - Sp. Batu Berigak - Berigak - Tanjung Berikat	5	Earth	26		140,600		
		6	Timber/Beton	54				
87	Dalam Kota Sungailiat	9	Asphalt	11.73		171,750		
		-	-	-				
88	Dalam Kota Belinyu	9	Asphalt	4		79,769		
		6	Beton	3 m				
57	Sungailiat-Bk. Batu-Rebo	5	Asphalt	25.2		189,400		
		-	-	-				
39	Payung - Bedengung	5	Earth	21		20,120		
		4	Timber	99 m				
40	Bedengung - Batu Betimpang	5	Earth	23		28,350		
		4	Timber	40 m				
69	Sungai Buluh - Bebruar	5	Earth	6		10,409		
		-	-	-				
67	Kacung - Pangkal Beras	5	Earth	12		22,614		
		4	Timber	18				
87	Dalam Kota Sungailiat	8	Asphalt	3		4,756		
		-	-	-				
11	Pudingbesar - Kotawaringin	5	Earth	23.5		41,000		
		4	Timber	24 m				
12	Saing - Sp. Buyan - Kelumbi - Sangku	5	Earth	12.2		20,000		
		4	Timber	6				
16	Simpang Jurung - Sempan	5	Asphalt	11.5		5,934		
		-	-	-				
87	Dalam Kota Sungailiat	8	Asphalt	7		18,463		
		-	-	-				
49	Tanjunglabu - Tanjung Sangkar	5	Earth	16		12,994		
		4	Timber	6 m				
97	Dalam Kota Toboali	4.5	Asphalt	6		50,210		
		-	-	-				

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

1. : Asphalt surface / penetrasi macadam
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3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

LINK NO Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang  ( KM )	COSTS Harga  (Rp 10 <sup>6</sup> )	REMARKS  Keterangan
		Lebar Jembatan	Type Jembatan			
29	Kd. Koba - Sp.Tj. Antu Bedukang - Kuala Mapur	6	Beton	20 m	8,725	

\* 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

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang ( KM )	COSTS Harga (Rp 10 <sup>6</sup> )	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
100	Payak - Rukam	5	Earth	4.85	101,000	
		6	Beton	17 m		
101	Penyampak-K.Manau -Bk.Batur	5	Earth	12	270,750	
		6	Beton	30 m		
98	Jln. Laut - Hakok	5	Earth	4.65	86,120	
		6	Timber	60 m		
02	Kedardong - Rukam	5	Earth	15	131,600	
		6	Timber/Beton	12m/19m		
85	Lubuk Kelik - Sp. Pemali	5	Asphalt	8.2	120,316	
88	Dalam Kota Belinyu	5	Asphalt	3.7	87,703	
		-	Beton	2 m		
87	Dalam Kota Sungailiat	5	Asphalt	3.7	65,385	
		6	Beton	3 m		
97	Dalam Kota Toboali	5/9	Asphalt	2.3	79,980	
		6	Beton	4		
93	Dalam Kota Mentok	9	Asphalt	1.2	64,421	
		-	-	-		
87	Dalam Kota Sungailiat	5/7/9	Asphalt	35.5	50,600	
		-	-	-		
30	Petaling - Menduk	5	Earth	18	43,578	
		4	Timber	3.5 m		
11	Puding Besar - Menduk	-	-	-	22,753	
		4	Timber	21 m		
30	Petaling - Menduk	-	-	-	7,500	
		6	Timber	2.5 m		
58	Sungailiat - Penyamun - Bakam	-	-	-	15,000	
		6	Beton	3 m		
95	Dalam Kota Koba	4.5	Asphalt	3 m	22,500	
		-	-	-		
87	Dalam Kota Sungailiat Sp.Jurung - Sempán	5	Asphalt	12	17,069	
		-	-	-		
102	Sukal - Tanjung Punai - Pangkal Ahoi - Trabek	5	Earth	13.5	235,350	
		6	Timber/Beton	26 m		

\* 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

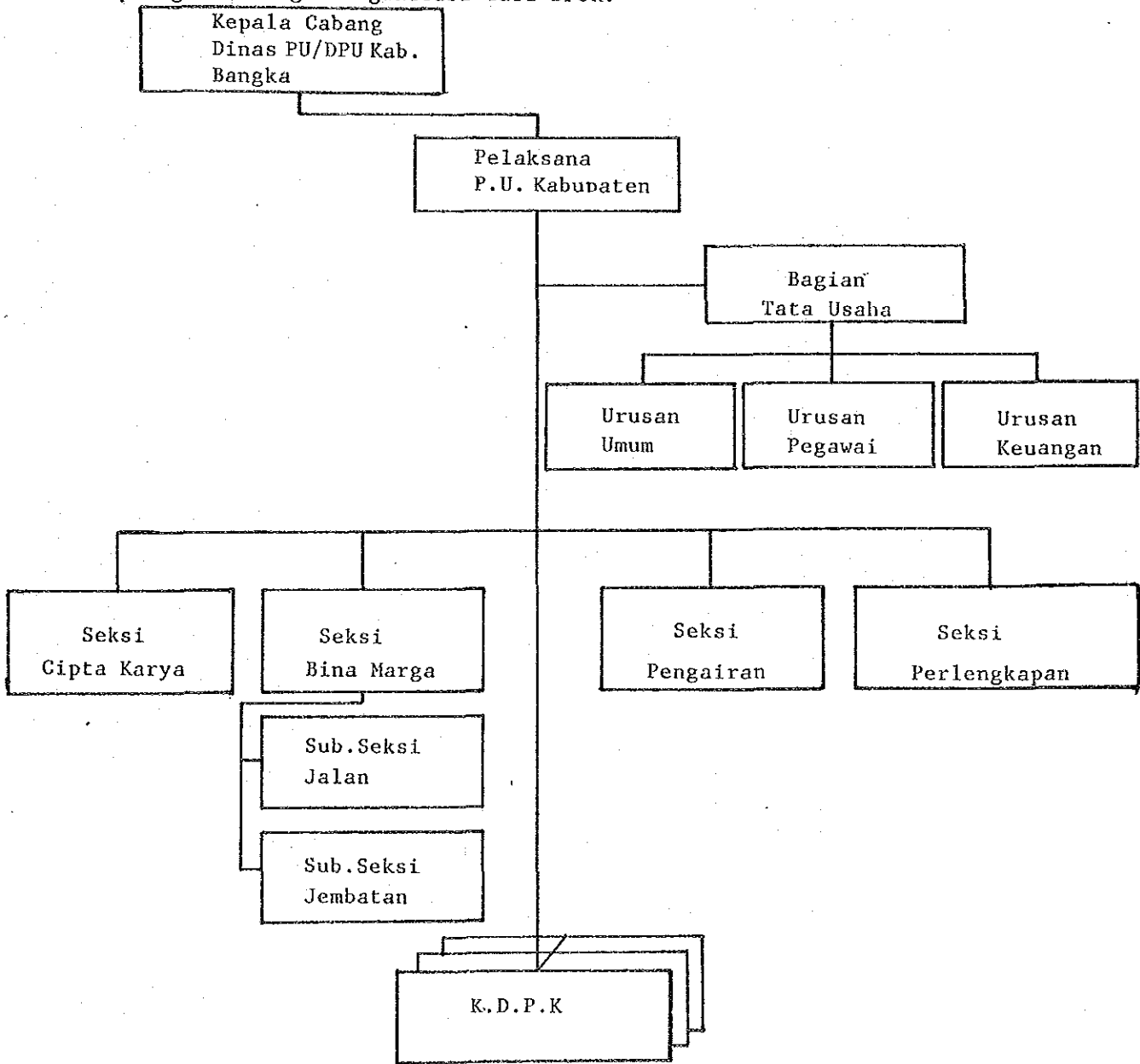


EXISTING ORGANIZATION IN KABUPATEN

Struktur Organisasi yang ada dari P.U Kabupaten

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

Harap digambar bagan organisasi dari DPUK.



Note:

K.D.P.K : Koord Daerah Pengamatan Kerja (kecamatan).

EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATENTenaga Dinas PUK yang adaPROPINSI: Sumatera SelatanKABUPATEN: Bangka

DESCRIPTION /Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLLING STAFF Staff teknis. PUK	(25)	(8)
DPUK ENGINEER Sarjana Teknik	1	1
ASSISTANT ENGINEER Sarjana Muda Teknik	3	1
TECHNICIAN STAFF Staff Teknik (STM)	21	6
ADMINISTRATION Tenaga Administrasi	12	4
SUPERVISOR Tenaga Pengawas	16	5
WORKING FORCE Tenaga Pelaksana Lapangan	(15)	(9)
OPERATORS Operators	6	5
DRIVERS Supir	2	1
MECHANICS Mechanic	4	3
TRADESMAN Tukang	3	-
L A B O U R Buruh / Pekerja	-	-
OTHERS Lain-lain	-	-
TOTAL / JUMLAH	68	26

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUK

PROPINSI : Sumatera Selatan

KABUPATEN: Bangka

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Sungailiat	20.000	1	Rencana

PROPINSI: Sumatera Selatan

E-07

KABUPATEN: Bangka

LAND ACQUISITION COST

Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	5,000	
VILLAGE / desa	M2		
RICE FIELD/sawah	M2		
DRY FIELD/ladang	M2		
MIX CROPS/panen	M2		
FOREST/hutan	M2		
SWAMP / rawa	M2		
OTHERS / lain-lain	M2		

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
2	A2	75,000,000	3	
2	B2	37,500,000	3	
6	C1	12,580,000	3	
29	C2	4,052,000	3	
4	C3	2,750,000	2	

NOTE: DATA II

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDI TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer			2	-	2		
Motor Grader			3	-	3		
Tyre Roller							
Steel Wheel Roller			9	1	10	underdil nothing	
Vibration Roller							
Wheel Loader			3	-	3		
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer			1	-	1		
Stone Crusher							
Portable Compressor			2	-	2		
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer			1	-	1		
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper							
Pile Driver							
Leg Drill							
Hand Hammer			5	-	5		
Farm Tractor							
Dump Truck			4	-	4		
Water Tank Truck			1	-	1		
Fuel Tank Truck							
Pick Up			10	-	10		
Jeep			5		5		
Motorcycle			20		20		
Generator			3		3		
Water Pump							
Others							

## LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

Name of contractor

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDIT TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							3
Motor Grader							4
Tyre Roller							4
Steel Whell Roller			3	3	6		4
Vibration Roller							2
Wheel Loader			1	-	1		2
Front End Loader and Backhoe							1
Mobile Crane							-
Concrete Mixer							2
Stone Crusher			-	1	1		1
Portable Compressor							2
Hydraulic Excavator							-
Asphalt Paving Machine							-
Asphalt Sprayer							3
Asphalt Mixing Machine							-
Mobile Workshop							2
Mechanic Rammer							1
Plate Tamper			4	-	4		-
Pile Driver							1
Leg Drill							2
Hand Hammer							-
Farm Tractor							-
Dump Truck							8
Water Tank Truck							2
Fuel Tank Truck		1982	1	-	1		-
Pick Up							-
Jeep							2
Motorcycle			2	-	2		8
Generator							2
Water Pump							2
Others (sheep foot roller)							2

## Appendix A-3

## CONSTRUCTION AND MAINTENANCE COST FOR PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAD : BANGKA  
 LINK NO : 103 (IIB-2) LENGTH : 7 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0	
Sub Base Course	m3	1598.5	3,093	1,344	4,944,160	2,148,384	7,092,544	
Base Course	m3	1680.0	4,276	2,295	7,183,680	3,855,600	11,039,280	
Shoulder	m2	21000.0	293	145	6,153,000	3,045,000	9,198,000	
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m2	0.0	659	595	0	0	0	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	0.0	986	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert 800cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Gabion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					18,280,840	9,048,984	27,329,824	
Overhead ( 15% )					2,742,126	1,357,347	4,099,473	
					TOTAL COST	21,022,966	10,406,331	31,429,297

Manual routine maintenance of road	Km	7.0	162,540	7,248	1,137,780	50,736	1,188,516
Routine maintenance of gravel road	Km	7.0	188,778	87,939	1,321,446	615,573	1,937,019
			Sub Total		2,459,226	666,309	3,125,535
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	325.0	8,658	2,513	2,813,850	816,725	3,630,575
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,489,900
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	3,546,272
Maintenance Rate without Bridge (%)	:	9.94
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN      KAB : BANGKA  
 LINK NO : 102 (111B-1)      LENGTH : 13 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	16000.0	162	91	2,592,000	1,456,000	4,048,000	
Subgrade Preparation	m <sup>2</sup>	35000.0	21	11	735,000	385,000	1,120,000	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	352.0	974	521	342,848	183,392	526,240	
Sub Base Course	m <sup>3</sup>	5285.0	3,093	1,344	16,346,505	7,103,040	23,449,545	
Base Course	m <sup>3</sup>	3640.0	4,276	2,295	15,564,640	8,353,800	23,918,440	
Shoulder	m <sup>2</sup>	39000.0	293	145	11,427,000	5,655,000	17,082,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	52000.0	659	595	34,268,000	30,940,000	65,208,000	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	0.0	986	119	0	0	0	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø90cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	3,587,072	460,514	4,047,586	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						84,863,065	54,536,746	139,399,811
Overhead (15%)						12,729,459	8,180,511	20,909,970
					TOTAL COST	97,592,524	62,717,257	160,309,781

Manual routine maintenance of road	Km	13.0	162,540	7,248	2,113,020	94,224	2,207,244
Routine maintenance of asphalt road	Km	13.0	388,800	137,500	5,054,400	1,787,500	6,841,900
			Sub Total		7,167,420	1,881,724	9,049,144
Maintenance of Timber Bridge (New)	m <sup>2</sup>	16.0	9,888	1,343	158,208	21,488	179,696
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	144.0	8,658	2,513	1,246,752	361,872	1,608,624
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	36.0	4,130	2,403	148,680	86,508	235,188

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,973,466
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	290,920
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	21,198,369
Maintenance Rate without Bridge (%)	:	5.81
New Bridge Cost Rate (%)	:	2.90



PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 98 (IIIA) LENGTH : 5 Km  
 UPGRADE : 8.0m road bed, 5.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	50.0	974	521	48,700	26,050	74,750	
Sub Base Course	m <sup>3</sup>	967.6	3,093	1,344	2,992,786	1,300,454	4,293,240	
Base Course	m <sup>3</sup>	2000.0	4,276	2,295	8,552,000	4,590,000	13,142,000	
Shoulder	m <sup>2</sup>	15000.0	293	145	4,395,000	2,175,000	6,570,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	25000.0	813	935	20,325,000	23,375,000	43,700,000	
Earth Drain	m	2000.0	986	119	1,972,000	238,000	2,210,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (Ø0x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub total	38,285,486	31,704,504	69,989,990
Overhead (15%)						5,742,822	4,755,675	10,498,497
					TOTAL COST	44,028,308	36,460,179	80,488,487

Manual routine maintenance of road	Km	5.0	162,540	7,248	812,700	36,240	848,940
Routine maintenance of asphalt road	Km	5.0	388,800	137,500	1,944,000	687,500	2,631,500
			Sub total		2,756,700	723,740	3,480,440
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	378.0	8,658	2,513	3,772,724	949,914	4,222,638
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Ka)	:	16,097,698
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	6,720,092
Maintenance Rate without Bridge (%)	:	4.32
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 02 (IIIC) LENGTH : 8 Km

UPGRADE : 7.0m road bed, 4.0m road with surface Subbase Course (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	615.0	3,093	1,344	1,902,195	826,560	2,728,755	
Base Course	m <sup>3</sup>	1920.0	4,276	2,295	8,209,920	4,406,400	12,616,320	
Shoulder	m <sup>2</sup>	24000.0	293	145	7,032,000	3,480,000	10,512,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	3400.0	986	119	3,352,400	404,600	3,757,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	61,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	11,476,644	1,156,880	12,633,524	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	31,973,159	10,274,440	42,247,599
Overhead (15%)						4,795,973	1,541,166	6,337,139
					TOTAL COST	36,769,132	11,815,606	48,584,738

Manual routine maintenance of road	Km	8.0	162,540	7,248	1,300,320	57,984	1,358,034
Routine maintenance of gravel road	Km	8.0	188,778	87,939	1,510,224	703,512	2,213,736
			Sub Total		2,810,544	761,496	3,572,040
Maintenance of Timber Bridge (New)	m <sup>2</sup>	80.0	9,888	1,343	791,040	107,440	898,480
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	175.5	8,658	2,513	1,519,479	441,031	1,960,510
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,257,023
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	181,607
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	1,091,502
Maintenance Rate without Bridge (%)	:	10.49
New Bridge Cost Rate (%)	:	29.90

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 79 (IIIB-2) LENGTH : 33 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0
Sub Base Course	m <sup>3</sup>	6415.0	3,093	1,344	19,841,595	8,621,760	28,463,355
Base Course	m <sup>3</sup>	7920.0	4,276	2,295	33,865,920	18,176,400	52,042,320
Shoulder	m <sup>2</sup>	99000.0	293	145	29,007,000	14,355,000	43,362,000
Asphalt Patching	m <sup>2</sup>	0.0	3,880	1,375	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	1000.0	986	119	986,000	119,000	1,105,000
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	83,700,515	41,272,160	124,972,675
Overhead ( 15% )					12,555,077	6,190,824	18,745,901
				TOTAL COST	96,255,592	47,462,984	143,718,576

Manual routine maintenance of road	Km	33.0	162,540	7,248	5,363,820	239,184	5,603,004
Routine maintenance of gravel road	Km	33.0	188,778	87,939	6,229,674	2,901,987	9,131,661
			Sub Total		11,593,494	3,141,171	14,734,665
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	760.5	8,658	2,513	6,584,409	1,911,136	8,495,545
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,355,108
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	14,231,677
Maintenance Rate without Bridge (%)	:	10.25
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 7B (IIIB-2) LENGTH : 4 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<< COST >>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	60.0	974	521	58,440	31,260	89,700
Sub Base Course	m <sup>3</sup>	868.0	3,093	1,344	2,604,724	1,166,592	3,851,316
Base Course	m <sup>3</sup>	960.0	4,276	2,295	4,104,960	2,203,200	6,308,160
Shoulder	m <sup>2</sup>	12000.0	293	145	3,516,000	1,740,000	5,256,000
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert 80cm	m	38.0	45,443	44,495	1,726,834	1,690,810	3,417,644
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	12.8	46,893	11,775	600,230	150,720	750,950
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					12,691,188	6,982,582	19,673,770
Overhead ( 15% )					1,903,678	1,047,387	2,951,065
TOTAL COST					14,594,866	8,029,969	22,624,835

Manual routine maintenance of road	Km	4.0	162,540	7,248	650,160	28,992	679,152
Routine maintenance of gravel road	Km	4.0	188,778	87,939	755,112	351,756	1,106,868
			Sub Total		1,405,272	380,748	1,786,020
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	5,656,209
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	1,925,658
Maintenance Rate without Bridge (%)	:	7.89
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN      KAB : BANGKA  
 LINK NO : 77 (IIIB-2)      LENGTH : 9 Km  
 UPGRADE : 8.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0
Sub Base Course	m3	1570.0	3,093	1,344	4,856,010	2,110,080	6,966,090
Base Course	m3	2160.0	4,276	2,295	9,236,160	4,957,200	14,193,360
Shoulder	m2	36000.0	293	145	10,548,000	5,220,000	15,768,000
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m2	0.0	659	595	0	0	0
Surface Dressing (Double)	m2	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		24,640,170	12,287,280	36,927,450
Overhead ( 15% )					3,696,025	1,843,092	5,539,117
			TOTAL COST		28,336,195	14,130,372	42,466,567

Manual routine maintenance of road	Km	9.0	162,540	7,248	1,462,860	65,232	1,528,092
Routine maintenance of gravel road	Km	9.0	188,778	87,939	1,699,002	791,451	2,490,453
			Sub Total		3,161,862	856,683	4,018,545
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	51.0	8,658	2,513	441,558	128,163	569,721
Maintenance of Concrete Bridge (Exist)	m2	130.0	4,130	2,403	536,900	312,390	849,290

Earthwork & Pavement Unit Cost	(Rp/Km)	:	4,718,508
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	3,483,045
Maintenance Rate without Bridge	(%)	:	9.46
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 74 (111B-2) LENGTH : 6 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	((( UNIT COST )))		(((( COST ))))		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	1167.5	3,093	1,344	3,611,077	1,569,120	5,180,197	
Base Course	m <sup>3</sup>	1440.0	4,276	2,295	6,157,440	3,304,800	9,462,240	
Shoulder	m <sup>2</sup>	18000.0	293	145	5,274,000	2,610,000	7,884,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	1600.0	986	119	1,577,600	190,400	1,768,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert D80cm	m	18.0	45,443	44,495	817,974	800,910	1,618,884	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	17,438,091	8,475,230	25,913,321
Overhead (15%)						2,615,713	1,271,284	3,886,997
					TOTAL COST	20,053,804	9,746,514	29,800,318

Manual routine maintenance of road	Km	6.0	162,540	7,248	975,240	43,488	1,018,728
Routine maintenance of gravel road	Km	6.0	188,778	87,939	1,132,668	527,634	1,660,302
			Sub total		2,107,908	571,122	2,679,030
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	210.0	8,658	2,513	1,818,180	527,730	2,345,910
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	4,966,720
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	2,590,898
Maintenance Rate without Bridge	(%)	:	8.99
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 73 (IIIB-1) LENGTH : 4 Km  
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	780.0	3,093	1,344	2,412,540	1,048,320	3,460,860	
Base Course	m <sup>3</sup>	1120.0	4,276	2,295	4,789,120	2,570,400	7,359,520	
Shoulder	m <sup>2</sup>	8000.0	293	145	2,344,000	1,160,000	3,504,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	16000.0	659	595	10,544,000	9,520,000	20,064,000	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	1600.0	986	119	1,577,600	190,400	1,768,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø90cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	21,667,260	14,489,120	36,156,380
Overhead ( 15% )						3,250,089	2,173,368	5,423,457
					TOTAL COST	24,917,349	16,662,488	41,579,837

Manual routine maintenance of road	Km	4.0	162,540	7,248	650,160	28,992	679,152
Routine maintenance of asphalt road	Km	4.0	388,800	137,500	1,555,200	550,000	2,105,200
			Sub Total		2,205,360	578,992	2,784,352
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	120.0	8,658	2,513	1,038,960	301,560	1,340,520
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	10,394,959
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	3,894,506
Maintenance Rate without Bridge	(%)	:	6.70
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 59 (IIIB-1) LENGTH : 5 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0
Sub Base Course	m3	936.0	3,093	1,344	2,895,048	1,257,984	4,153,032
Base Course	m3	1400.0	4,276	2,295	5,986,400	3,213,000	9,199,400
Shoulder	m2	15000.0	293	145	4,395,000	2,175,000	6,570,000
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m2	20000.0	659	595	13,180,000	11,900,000	25,080,000
Surface Dressing (Double)	m2	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert D80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		26,456,448	18,545,984	45,002,432
Overhead ( 15% )					3,968,467	2,781,897	6,750,364
			TOTAL COST		30,424,915	21,327,881	51,752,796

Manual routine maintenance of road	Km	5.0	162,540	7,248	812,700	36,240	848,940
Routine maintenance of asphalt road	Km	5.0	388,800	137,500	1,944,000	687,500	2,631,500
			Sub Total		2,756,700	723,740	3,480,440
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,350,559
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	4,747,002
Maintenance Rate without Bridge		(%)	:	6.73
New Bridge Cost Rate		(%)	:	



PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 58 (IIIB-2) LENGTH : 39 Km  
 UPGRADE : 7.0m road bed, 4.5m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	420.0	974	521	409,080	218,820	627,900
Sub Base Course	m <sup>3</sup>	7048.0	3,093	1,344	21,799,464	9,472,512	31,271,976
Base Course	m <sup>3</sup>	9180.0	4,276	2,295	39,253,680	21,068,100	60,321,780
Shoulder	m <sup>2</sup>	97500.0	293	145	28,567,500	14,137,500	42,705,000
Asphalt Patching	m <sup>2</sup>	86.0	3,888	1,375	334,368	118,250	452,618
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert 80x80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	90,364,092	45,015,182	135,379,274
Overhead ( 15% )					13,554,613	6,752,277	20,306,890
				TOTAL COST	103,918,705	51,767,459	155,686,164

Manual routine maintenance of road	Km	39.0	162,540	7,248	6,339,060	282,672	6,621,732
Routine maintenance of gravel road	Km	39.0	180,778	87,939	7,362,342	3,429,621	10,791,963
			Sub Total		13,701,402	3,712,293	17,413,695
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	303.0	8,658	2,513	2,623,374	761,439	3,384,813
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	256.0	4,130	2,403	1,057,280	615,168	1,672,448

Earthwork & Pavement Unit Cost	(Rp/Km)	:	3,971,953
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	15,635,988
Maintenance Rate without Bridge	(%)	:	11.19
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 46 (IIIB-1) LENGTH : 14 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	2910.0	3,093	1,344	9,000,630	3,911,040	12,911,670	
Base Course	m <sup>3</sup>	3920.0	4,276	2,295	16,761,920	8,996,400	25,758,320	
Shoulder	m <sup>2</sup>	42000.0	293	145	12,306,000	6,090,000	18,396,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	56000.0	659	595	36,904,000	33,320,000	70,224,000	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	1800.0	986	119	1,774,800	214,200	1,989,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	10.0	45,443	44,495	454,430	444,950	899,380	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						77,201,780	52,976,590	130,178,370
Overhead (15%)						11,580,267	7,946,488	19,526,755
					TOTAL COST	88,782,047	60,923,078	149,705,125

Manual routine maintenance of road	Km	14.0	162,540	7,248	2,275,560	101,472	2,377,032
Routine maintenance of asphalt road	Km	14.0	388,800	137,500	5,443,200	1,925,000	7,368,200
			Sub Total		7,710,760	2,026,472	9,745,232
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	290.0	4,130	2,403	1,197,700	696,870	1,894,570

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,693,223
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	14,189,833
Maintenance Rate without Bridge (%)	:	6.51
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 45 (IIIB-1) LENGTH : 16 Km  
 UPGRADE : 8.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	48000.0	21	11	1,008,000	528,000	1,536,000
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	1176.0	974	521	1,145,424	612,696	1,758,120
Sub Base Course	m <sup>3</sup>	5017.5	3,093	1,344	15,519,127	6,743,520	22,262,647
Base Course	m <sup>3</sup>	4480.0	4,276	2,295	19,156,480	10,281,600	29,438,080
Shoulder	m <sup>2</sup>	64000.0	293	145	18,752,000	9,280,000	28,032,000
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	64000.0	659	595	42,176,000	38,080,000	80,256,000
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	500.0	986	119	493,000	59,500	552,500
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		98,250,031	65,585,316	163,835,347
Overhead ( 15% )					14,737,504	9,837,797	24,575,301
			TOTAL COST		112,987,535	75,423,113	188,410,648

Manual routine maintenance of road	Km	16.0	162,540	7,248	2,600,640	115,968	2,716,608
Routine maintenance of asphalt road	Km	16.0	388,800	137,500	6,220,800	2,200,000	8,420,800
			Sub Total		8,821,440	2,315,968	11,137,408
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	22.0	8,658	2,513	190,476	55,286	245,762
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	86.9	4,130	2,403	359,062	208,916	567,978

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,775,666
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	21,471,468
Maintenance Rate without Bridge (%)	:	5.91
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 44 (IIIB-2) LENGTH : 24 Km

UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	5320.0	3,093	1,344	16,454,760	7,150,080	23,604,840	
Base Course	m <sup>3</sup>	5520.0	4,276	2,295	23,603,520	12,668,400	36,271,920	
Shoulder	m <sup>2</sup>	72000.0	293	145	21,096,000	10,440,000	31,536,000	
Asphalt Patching	m <sup>2</sup>	50.0	3,888	1,375	194,400	69,750	263,150	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	0.0	986	119	0	0	0	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert (80x80cm)	m	17.0	45,443	44,495	772,531	756,415	1,528,946	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	3.2	46,893	11,775	150,057	37,680	187,737	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	62,271,268	31,121,325	93,392,593
Overhead (15%)						9,340,690	4,668,198	14,008,888
					TOTAL COST	71,611,958	35,789,523	107,401,481

Manual routine maintenance of road	Km	24.0	162,540	7,240	3,900,960	173,952	4,074,912
Routine maintenance of gravel road	Km	24.0	188,778	87,939	4,530,672	2,110,536	6,641,208
			Sub Total		8,431,632	2,284,488	10,716,120
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	405.0	8,658	2,513	3,506,490	1,017,765	4,524,255
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,475,062
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	11,802,420
Maintenance Rate without Bridge (%)	:	9.98
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 41 (111B-2) LENGTH : 24 Km  
 UPGRADE : 8.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	12960.0	21	11	272,160	142,560	414,720
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	1392.0	2,449	1,050	3,409,008	1,461,600	4,870,608
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0
Sub Base Course	m <sup>3</sup>	4738.5	3,093	1,344	14,656,180	6,368,544	21,024,724
Base Course	m <sup>3</sup>	5040.0	4,276	2,295	21,551,040	11,566,800	33,117,840
Shoulder	m <sup>2</sup>	96000.0	293	145	28,128,000	13,920,000	42,048,000
Asphalt Patching	m <sup>2</sup>	94.0	3,088	1,375	365,472	129,250	494,722
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m <sup>3</sup>	9600.0	1,205	473	11,568,000	4,540,800	16,108,800
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	79,949,860	38,129,554	118,079,414
Overhead (15%)					11,992,479	5,719,433	17,711,912
				TOTAL COST	91,942,339	43,848,987	135,791,326
Manual routine maintenance of road	Km	24.0	162,540	7,248	3,900,960	173,952	4,074,912
Routine maintenance of gravel road	Km	24.0	188,778	87,939	4,530,672	2,110,536	6,641,208
			Sub Total		8,431,632	2,284,488	10,716,120
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	182.4	4,130	2,403	753,312	438,307	1,191,619
Earthwork & Pavement	Unit Cost (Rp/Km)						5,657,972
Timber Bridge	Unit Cost (Rp/m <sup>2</sup> )						
Concrete Bridge	Unit Cost (Rp/m <sup>2</sup> )						
Survived Value	(Rp)						10,512,362
Maintenance Rate without Bridge	(%)						7.89
New Bridge Cost Rate	(%)						

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 39 (IIIB-2) LENGTH : 16 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	1506.0	3,093	1,344	4,658,059	2,024,064	6,682,122	
Base Course	m <sup>3</sup>	2640.0	4,276	2,295	11,288,640	6,058,800	17,347,440	
Shoulder	m <sup>2</sup>	48000.0	293	145	14,064,000	6,960,000	21,024,000	
Asphalt Patching	m <sup>2</sup>	128.0	3,888	1,375	497,664	176,000	673,664	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	0.0	986	119	0	0	0	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Sablon Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					30,508,362	15,218,864	45,727,226	
Overhead ( 15% )					4,576,254	2,282,029	6,859,083	
					<b>TOTAL COST</b>	<b>35,084,616</b>	<b>17,501,693</b>	<b>52,586,309</b>

Manual routine maintenance of road	Km	16.0	162,540	7,248	2,600,640	115,968	2,716,608
Routine maintenance of gravel road	Km	16.0	188,778	87,939	3,020,448	1,407,024	4,427,472
			Sub Total		5,621,088	1,522,992	7,144,080
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	139.4	4,130	2,403	575,515	334,858	910,373

Earthwork & Pavement Unit Cost (Rp/Km)	:	3,286,644
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	3,341,061
Maintenance Rate without Bridge (%)	:	13.59
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 3B (IIB-2) LENGTH : 17 Km  
 UPGRADE : 7.0m road bed, 4.5m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	490.0	974	521	477,260	255,290	732,550	
Sub Base Course	m3	3010.0	3,093	1,344	9,309,930	4,045,440	13,355,370	
Base Course	m3	3240.0	4,276	2,295	13,854,240	7,435,800	21,290,040	
Shoulder	m2	47500.0	293	145	13,917,500	6,887,500	20,805,000	
Asphalt Patching	m2	96.0	3,888	1,375	373,248	132,000	505,248	
Surface Dressing (Single)	m2	0.0	659	595	0	0	0	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	900.0	986	119	887,400	107,100	994,500	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert 800cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert 180x80cm	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Gabion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	38,819,578	18,863,130	57,682,708
Overhead ( 15% )						5,822,936	2,829,469	8,652,405
					TOTAL COST	44,642,514	21,692,599	66,335,113

Manual routine maintenance of road	Km	19.0	162,540	7,248	3,089,260	137,712	3,225,972
Routine maintenance of gravel road	Km	19.0	188,778	87,939	3,586,782	1,670,841	5,257,623
			Sub Total		6,675,042	1,808,553	8,483,595
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	112.5	4,130	2,403	464,625	270,337	734,962

Earthwork & Pavement Unit Cost (Rp/Km)	:	3,491,322
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,677,685
Maintenance Rate without Bridge (%)	:	12.79
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 37 (IIIB-1) LENGTH : 28 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0	
Sub Base Course	m3	4062.0	3,093	1,344	12,563,766	5,459,328	18,023,094	
Base Course	m3	6440.0	4,276	2,295	27,537,440	14,779,800	42,317,240	
Shoulder	m2	84000.0	293	145	24,612,000	12,180,000	36,792,000	
Asphalt Patching	m2	70.0	3,888	1,375	272,160	96,250	368,410	
Surface Dressing (Single)	m2	112000.0	659	595	73,808,000	66,640,000	140,448,000	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	200.0	986	119	197,200	23,800	221,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	39,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Babion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					138,990,566	99,179,178	238,169,744	
Overhead (15%)					20,848,584	14,876,876	35,725,460	
					<b>TOTAL COST</b>	<b>159,839,150</b>	<b>114,056,054</b>	<b>273,895,204</b>

Manual routine maintenance of road	Km	28.0	162,540	7,248	4,551,120	202,944	4,754,064
Routine maintenance of asphalt road	Km	28.0	388,800	137,500	10,886,400	3,850,000	14,736,400
			Sub Total		15,437,520	4,052,944	19,490,464
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	80.0	4,130	2,403	330,400	172,240	522,640

Earthwork & Pavement Unit Cost	(Rp/Km)	:	9,781,972
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	21,079,613
Maintenance Rate without Bridge	(%)	:	7.12
New Bridge Cost Rate	(%)	:	



PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 36 (IIIB-1) LENGTH : 32 Km  
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0	
Sub Base Course	m3	6094.5	3,093	1,344	18,850,288	8,191,008	27,041,296	
Base Course	m3	8960.0	4,276	2,295	38,312,960	20,563,200	58,876,160	
Shoulder	m2	64000.0	293	145	18,752,000	9,280,000	28,032,000	
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m2	128000.0	659	595	84,352,000	76,160,000	160,512,000	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	3500.0	986	119	3,451,000	416,500	3,867,500	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	5.0	45,443	44,495	227,215	222,475	449,690	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Gabion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	163,945,463	114,833,183	278,778,646
Overhead (15%)						24,591,819	17,224,977	41,816,796
					TOTAL COST	188,537,282	132,058,160	320,595,442

Manual routine maintenance of road	Km	32.0	162,540	7,248	5,201,280	231,936	5,433,216
Routine maintenance of asphalt road	Km	32.0	388,800	137,500	12,441,600	4,400,000	16,841,600
			Sub Total		17,642,880	4,631,936	22,274,816
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	211.5	8,658	2,513	1,831,167	531,499	2,362,666
Maintenance of Concrete Bridge (Exist)	m2	72.0	4,130	2,403	297,360	173,016	470,376

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,018,608
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	30,704,139
Maintenance Rate without Bridge		(%)	:	6.95
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
LINK NO : 32 (IIB-1) LENGTH : 9 Km  
UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (1)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0
Sub Base Course	m <sup>3</sup>	1615.5	3,093	1,344	4,996,741	2,171,232	7,167,973
Base Course	m <sup>3</sup>	2835.0	4,276	2,295	12,122,460	6,506,325	18,628,785
Shoulder	m <sup>2</sup>	22500.0	293	145	6,592,500	3,262,500	9,855,000
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	40500.0	859	595	26,689,500	24,097,500	50,787,000
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	4600.0	986	119	4,535,600	547,400	5,083,000
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Babion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		54,936,801	36,584,957	91,521,758
Overhead (15%)					8,240,520	5,487,743	13,728,263
			TOTAL COST		63,177,321	42,072,700	105,250,021

Manual routine maintenance of road	Km	9.0	162,540	7,248	1,462,860	65,232	1,528,092
Routine maintenance of asphalt road	Km	9.0	388,880	137,500	3,499,200	1,237,500	4,736,700
			Sub Total		4,962,060	1,302,732	6,264,792
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	78.0	8,658	2,513	675,324	196,014	871,338
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	141.0	4,130	2,403	582,330	338,823	921,153

Earthwork & Pavement Unit Cost	(Rp/Km)	:	11,694,447
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	8,743,338
Maintenance Rate without Bridge	(%)	:	5.95
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 31 (IIIB-2) LENGTH : 4 Km

UPGRADE : 7.0m road bed, 4.5m road with surface Base Course

(Rp)

I T E N	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0
Sub Base Course	m3	0.0	3,093	1,344	0	0	0
Base Course	m3	0.0	4,276	2,295	0	0	0
Shoulder	m2	10000.0	293	145	2,930,000	1,450,000	4,380,000
Asphalt Patching	m2	103.0	3,888	1,375	400,464	141,625	542,089
Surface Dressing (Single)	m2	0.0	659	595	0	0	0
Surface Dressing (Double)	m2	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					3,330,464	1,591,625	4,922,089
Overhead ( 15% )					499,569	238,743	738,312
TOTAL COST					3,830,033	1,830,368	5,660,401

Manual routine maintenance of road	Km	4.0	162,540	7,248	650,160	28,992	679,152
Routine maintenance of gravel road	Km	4.0	188,778	87,939	755,112	351,756	1,106,869
Sub Total					1,405,272	380,748	1,786,020
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,363	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	1,415,101
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	0
Maintenance Rate without Bridge		(%)	:	31.55
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 24 (IIIB-2) LENGTH : 24 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	140.0	974	521	136,360	72,940	209,300
Sub Base Course	m <sup>3</sup>	3368.0	3,093	1,344	10,417,224	4,526,592	14,943,816
Base Course	m <sup>3</sup>	4560.0	4,276	2,295	19,498,560	10,465,200	29,963,760
Shoulder	m <sup>2</sup>	48000.0	293	145	14,064,000	6,960,000	21,024,000
Asphalt Patching	m <sup>2</sup>	105.0	3,888	1,375	408,240	144,375	552,615
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	2000.0	986	119	1,972,000	238,000	2,210,000
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		46,496,384	22,407,107	68,903,491
Overhead ( 15% )					6,974,457	3,361,066	10,335,523
			TOTAL COST		53,470,841	25,768,173	79,239,014

Manual routine maintenance of road	Km	24.0	162,540	7,248	3,900,960	173,952	4,074,912
Routine maintenance of gravel road	Km	24.0	188,778	87,939	4,530,672	2,110,536	6,641,208
			Sub Total		8,431,632	2,284,488	10,716,120
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	63.0	4,130	2,403	260,190	151,389	411,579

Earthwork & Pavement Unit Cost	(Rp/Km)	:	3,301,626
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	7,471,908
Maintenance Rate without Bridge	(%)	:	13.52
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 20 (IIC) LENGTH : 9 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Subbase Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	140.0	974	521	136,360	72,940	209,300
Sub Base Course	m3	710.0	3,093	1,344	2,196,030	954,240	3,150,270
Base Course	m3	2160.0	4,276	2,295	9,236,160	4,957,200	14,193,360
Shoulder	m2	18000.0	293	145	5,274,000	2,610,000	7,884,000
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m2	0.0	659	595	0	0	0
Surface Dressing (Double)	m2	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert 80x80cm	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		16,842,550	8,594,380	25,436,930
Overhead ( 15% )					2,526,382	1,289,157	3,815,539
			TOTAL COST		19,368,932	9,883,537	29,252,469

Manual routine maintenance of road	Km	9.0	162,540	7,248	1,462,860	65,232	1,528,092
Routine maintenance of gravel road	Km	9.0	188,778	87,939	1,699,002	791,451	2,490,453
			Sub Total		3,161,862	856,683	4,018,545
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	105.0	8,658	2,513	909,090	263,865	1,172,955
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement	Unit Cost (Rp/Km)	:	3,250,274
Timber Bridge	Unit Cost (Rp/m2)	:	
Concrete Bridge	Unit Cost (Rp/m2)	:	
Survived Value	(Rp)	:	1,260,100
Maintenance Rate without Bridge	(%)	:	13.74
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 18 (111B-1) LENGTH : 11 Km  
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0
Sub Base Course	m3	1404.0	3,093	1,344	4,342,572	1,886,976	6,229,548
Base Course	m3	2240.0	4,276	2,295	9,578,240	5,140,800	14,719,040
Shoulder	m2	22000.0	293	145	6,446,000	3,190,000	9,636,000
Asphalt Patching	m2	176.0	3,888	1,375	684,288	242,000	926,288
Surface Dressing (Single)	m2	44000.0	659	595	28,996,000	26,180,000	55,176,000
Surface Dressing (Double)	m2	0.0	813	935	0	0	0
Earth Drain	m	1800.0	986	119	1,774,800	214,200	1,989,000
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert 880cm	m	18.0	45,443	44,495	817,974	800,910	1,618,884
Masonry Culvert (80x60cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	3.2	46,893	11,775	150,572	37,680	187,737
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	52,789,931	37,692,566	90,482,497
Overhead (15%)					7,918,489	5,653,884	13,572,373
				TOTAL COST	60,708,420	43,346,450	104,054,870

Manual routine maintenance of road	Km	11.0	162,540	7,248	1,787,940	79,728	1,867,668
Routine maintenance of asphalt road	Km	11.0	388,800	137,500	4,276,800	1,512,500	5,789,300
			Sub Total		6,064,740	1,592,228	7,656,968
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	9,459,534
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	7,304,491
Maintenance Rate without Bridge (%)	:	7.36
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 16 (IIIA) LENGTH : 12 Km

UPGRADE : 8.0m road bed, 5.0m road with surface Dressing (2)

(Rp)

I T E R	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	12000.0	162	91	1,944,000	1,092,000	3,036,000
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,667	861	0	0	0
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0
Sub Base Course	m3	2230.0	3,093	1,344	6,897,390	2,997,120	9,894,510
Base Course	m3	4800.0	4,276	2,295	20,524,800	11,016,000	31,540,800
Shoulder	m2	36000.0	293	145	10,548,000	5,220,000	15,768,000
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m2	0.0	659	595	0	0	0
Surface Dressing (Double)	m2	60000.0	813	935	48,780,000	56,100,000	104,880,000
Earth Drain	m	6000.0	986	119	5,916,000	714,000	6,630,000
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0
Pipe Culvert 800cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0
Gabion Protection	m3	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
					Sub Total		
					94,610,190	77,139,120	171,749,310
Overhead ( 15% )					14,191,528	11,570,868	25,762,396
					TOTAL COST		
					108,801,718	88,709,988	197,511,706

Manual routine maintenance of road	Km	12.0	162,540	7,248	1,950,480	86,976	2,037,456
Routine maintenance of asphalt road	Km	12.0	388,800	137,500	4,665,600	1,650,000	6,315,600
			Sub Total		6,616,080	1,736,976	8,353,056
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	222.0	4,130	2,403	916,860	533,466	1,450,326

Earthwork & Pavement	Unit Cost	(Rp/Ka)	:	16,459,309
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	15,800,008
Maintenance Rate without Bridge		(%)	:	4.23
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 11 (111B-1) LENGTH : 25 Km

UPGRADE : 6.0m road bed, 4.5m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	420.0	974	521	409,080	218,820	627,900	
Sub Base Course	m <sup>3</sup>	5956.0	3,093	1,344	18,421,908	8,004,864	26,426,772	
Base Course	m <sup>3</sup>	7875.0	4,276	2,295	33,673,500	18,073,125	51,746,625	
Shoulder	m <sup>2</sup>	37500.0	293	145	10,987,500	5,437,500	16,425,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	112500.0	659	595	74,137,500	66,937,500	141,075,000	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	17600.0	986	119	17,353,600	2,094,400	19,448,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	10.0	45,443	44,495	454,430	444,950	899,380	
Masonry Culvert (80x80cm)	m	0.0	61,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	7,724,764	983,236	8,708,000	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	163,162,282	102,194,395	265,356,677
Overhead (15%)						24,474,342	15,329,159	39,803,501
					TOTAL COST	187,636,624	117,523,554	305,160,178

Manual routine maintenance of road	Km	25.0	162,540	7,248	4,063,500	181,200	4,244,700
Routine maintenance of asphalt road	Km	25.0	388,800	137,500	9,720,000	3,437,500	13,157,500
			Sub Total		13,783,500	3,618,700	17,402,200
Maintenance of Timber Bridge (New)	m <sup>2</sup>	32.0	9,888	1,343	316,416	42,976	359,392
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	113.3	8,658	2,513	980,518	284,597	1,265,115
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	215.0	4,130	2,403	887,950	516,645	1,404,595

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,805,839
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	312,944
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	28,848,065
Maintenance Rate without Bridge (Z)	:	5.90
New Bridge Cost Rate (Z)	:	3.28



PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 123 (IIB-2) LENGTH : 2 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	1215.0	21	11	25,515	13,365	38,880
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0
Fill in Swamp	m <sup>3</sup>	165.9	2,449	1,050	406,289	174,195	580,484
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0
Sub Base Course	m <sup>3</sup>	511.5	3,093	1,344	1,582,069	687,456	2,269,525
Base Course	m <sup>3</sup>	480.0	4,276	2,295	2,052,480	1,101,600	3,154,080
Shoulder	m <sup>2</sup>	6000.0	293	145	1,758,000	870,000	2,628,000
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0
Earth Drain	m	0.0	986	119	0	0	0
Earth Drain in Swamp (by machine)	m <sup>3</sup>	900.0	1,205	473	1,084,500	425,700	1,510,200
Pipe Culvert 80x80cm	m	0.0	45,443	44,495	0	0	0
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	6,908,853	3,272,316	10,181,169
Overhead (15%)					1,036,327	490,847	1,527,174
				TOTAL COST	7,945,180	3,763,163	11,708,343

Manual routine maintenance of road	Km	2.0	162,540	7,248	325,080	14,496	339,576
Routine maintenance of gravel road	Km	2.0	180,778	87,939	377,556	175,878	553,434
			Sub Total		702,636	190,374	893,010
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	5,854,172
Timber Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost (Rp/m <sup>2</sup> )	:	
Survived Value (Rp)	:	1,134,762
Maintenance Rate without Bridge (%)	:	7.63
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 1 (IIIR-2) LENGTH : 27 Km  
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	5755.0	3,093	1,344	17,800,215	7,734,720	25,534,935	
Base Course	m <sup>3</sup>	6480.0	4,276	2,295	27,708,480	14,871,600	42,580,080	
Shoulder	m <sup>2</sup>	81000.0	293	145	23,733,000	11,745,000	35,478,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	0.0	659	595	0	0	0	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	8200.0	986	119	8,085,200	975,800	9,061,000	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	5.0	45,443	44,495	227,215	222,475	449,690	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						77,554,110	35,549,595	113,103,705
Overhead (15%)						11,633,116	5,332,439	16,965,555
					TOTAL COST	89,187,226	40,882,034	130,069,260

Manual routine maintenance of road	Km	27.0	162,540	7,248	4,388,580	195,696	4,584,276
Routine maintenance of gravel road	Km	27.0	188,778	87,939	5,097,006	2,374,353	7,471,359
			Sub Total		9,485,586	2,570,049	12,055,635
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,808	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	880.0	8,658	2,513	7,619,040	2,211,440	9,830,480
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	4,817,380
Timber Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value	(Rp)	:	12,767,467
Maintenance Rate without Bridge	(%)	:	9.27
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 7 (IIB-1) LENGTH : 7 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m <sup>2</sup>	0.0	162	91	0	0	0	
Subgrade Preparation	m <sup>2</sup>	0.0	21	11	0	0	0	
Normal Fill	m <sup>3</sup>	0.0	1,667	861	0	0	0	
Fill in Swamp	m <sup>3</sup>	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m <sup>3</sup>	0.0	974	521	0	0	0	
Sub Base Course	m <sup>3</sup>	1206.0	3,093	1,344	3,730,158	1,620,864	5,351,022	
Base Course	m <sup>3</sup>	1960.0	4,276	2,295	8,380,960	4,498,200	12,879,160	
Shoulder	m <sup>2</sup>	14000.0	293	145	4,102,000	2,030,000	6,132,000	
Asphalt Patching	m <sup>2</sup>	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m <sup>2</sup>	28000.0	659	595	18,452,000	16,660,000	35,112,000	
Surface Dressing (Double)	m <sup>2</sup>	0.0	813	935	0	0	0	
Earth Drain	m	4500.0	986	119	4,437,000	535,500	4,972,500	
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,205	473	0	0	0	
Pipe Culvert Ø80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,706	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,893	11,775	0	0	0	
Gabion Protection	m <sup>3</sup>	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	39,102,118	25,344,564	64,446,682
Overhead (15%)						5,865,317	3,801,684	9,667,001
					TOTAL COST	44,967,435	29,146,248	74,113,683

Manual routine maintenance of road	Km	7.0	162,540	7,248	1,137,780	50,736	1,188,516	
Routine maintenance of asphalt road	Km	7.0	388,800	137,500	2,721,600	962,500	3,684,100	
					Sub Total	3,859,380	1,013,236	4,872,616
Maintenance of Timber Bridge (New)	m <sup>2</sup>	0.0	9,888	1,343	0	0	0	
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	2,081	2,805	0	0	0	
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	8,658	2,513	0	0	0	
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,130	2,403	0	0	0	

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,587,669
Timber Bridge	Unit Cost	(Rp/m <sup>2</sup> )	:	
Concrete Bridge	Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value		(Rp)	:	6,321,547
Maintenance Rate without Bridge		(%)	:	6.57
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 5 (IIC) LENGTH : 16 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Subbase Course (Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0	
Sub Base Course	m3	0.0	3,093	1,344	0	0	0	
Base Course	m3	0.0	4,276	2,295	0	0	0	
Shoulder	m2	32000.0	293	145	9,376,000	4,640,000	14,016,000	
Asphalt Patching	m2	2236.0	3,888	1,375	8,693,568	3,074,500	11,768,068	
Surface Dressing (Single)	m2	0.0	659	595	0	0	0	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	3800.0	986	119	3,746,800	452,200	4,199,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert DB0ca	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80ca)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Gabion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	21,816,368	8,166,700	29,983,068
Overhead ( 15% )						3,272,455	1,225,005	4,497,460
					TOTAL COST	25,088,823	9,391,705	34,480,528

Manual routine maintenance of road	Km	16.0	162,540	7,248	2,600,640	115,968	2,716,608
Routine maintenance of gravel road	Km	16.0	188,778	87,939	3,020,448	1,407,024	4,427,472
			Sub Total		5,621,088	1,522,992	7,144,080
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	875.0	8,658	2,513	7,575,750	2,198,875	9,774,625
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	2,155,033
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	0
Maintenance Rate without Bridge (%)	:	20.72
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 10 (IIIB-2) LENGTH : 6 Km

UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	162	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,667	861	0	0	0	
Fill in Swamp	m3	0.0	2,449	1,050	0	0	0	
Normal Excavation to Spoil	m3	0.0	974	521	0	0	0	
Sub Base Course	m3	884.0	3,093	1,344	2,734,212	1,188,096	3,922,308	
Base Course	m3	1440.0	4,276	2,295	6,157,440	3,304,800	9,462,240	
Shoulder	m2	18000.0	293	145	5,274,000	2,610,000	7,884,000	
Asphalt Patching	m2	0.0	3,888	1,375	0	0	0	
Surface Dressing (Single)	m2	0.0	659	595	0	0	0	
Surface Dressing (Double)	m2	0.0	813	935	0	0	0	
Earth Drain	m	0.0	986	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,205	473	0	0	0	
Pipe Culvert 80cm	m	0.0	45,443	44,495	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	64,708	38,085	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	15,441	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,893	11,775	0	0	0	
Gabion Protection	m3	0.0	13,174	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					14,165,652	7,102,896	21,268,548	
Overhead ( 15% )					2,124,847	1,065,434	3,190,281	
					TOTAL COST	16,290,499	8,168,330	24,458,829

Manual routine maintenance of road	Km	6.0	162,540	7,248	975,240	43,488	1,018,728
Routine maintenance of gravel road	Km	6.0	188,778	87,939	1,132,668	527,634	1,660,302
				Sub Total	2,107,908	571,122	2,679,030
Maintenance of Timber Bridge (New)	m2	0.0	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,130	2,403	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,076,472
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	1,961,154
Maintenance Rate without Bridge (%)	:	10.95
New Bridge Cost Rate (%)	:	

## Appendix A-4

CONSTRUCTION AND MAINTENANCE QUANTITIES  
FOR ALL PROPOSED ROAD LINKS  
(CONSTRUCTION)

PROV : SUMATERA SELATAN      KAB : BANGKA

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	431.4	731.4	1166.9	1764.0	1322.9	5416.6
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	51.9	51.9
Motor Grader	hr	1046.2	2009.9	3026.5	4090.8	3105.8	13279.2
Hand-guide Vib. Roller	hr	15.4	160.0	121.8	458.5	36.6	792.3
Tire Roller	hr	870.8	1775.4	1362.0	1144.3	1399.9	6552.4
Vibratory Roller (D&T)	hr	724.1	1370.4	2019.8	2698.4	2099.4	8912.1
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	0.0	787.5	787.5
Wheel Loader	hr	1346.6	2929.7	4101.1	5226.3	3999.1	17602.8
Water Tank Truck	hr	404.6	901.2	1225.3	1465.1	1135.6	5131.8
Dump Truck	hr	9773.6	21337.0	30364.4	38411.0	29066.9	128952.9
Flat Bed Truck with Crane	hr	0.0	149.0	75.7	46.5	8.0	279.2
Flat Bed Truck	hr	1045.0	2184.2	1670.8	1391.3	1682.8	7974.1
Portable Crusher/Screening	hr	353.7	864.0	1105.6	1282.8	983.8	4589.9
Concrete Mixer	hr	0.0	1.3	16.1	12.8	1.7	31.9
Water Pump	hr	0.0	1.3	13.6	11.5	1.7	28.1
Concrete Vibrator	hr	0.0	1.3	8.5	9.0	1.7	20.5
Asphalt Sprayer	hr	870.8	1775.4	1362.0	1144.3	1399.9	6552.4
<b>LABOUR :</b>							
Mandur	man day	691.4	1730.7	2018.1	2308.7	1769.1	8518.0
Skilled Labourer	man day	532.8	2340.5	1112.9	996.9	866.7	5849.8
Carpenter	man day	0.0	682.8	136.5	3.0	0.5	822.8
Mason	man day	0.0	0.0	12.8	6.4	0.0	19.2
Labourer	man day	6803.7	16950.9	20741.7	21789.8	15217.9	81504.0
Driver	man day	2060.7	4545.0	5955.8	7233.8	5661.6	25456.9
Operator	man day	1143.6	2341.3	3168.1	4053.1	3326.0	14032.1
<b>MATERIAL :</b>							
Bitumen	l	178659.8	363960.4	297452.0	256820.6	287267.7	1384160.5
Asphalt Oil	l	35704.1	72792.0	52112.0	43099.9	57400.0	261108.0
Kerosene	l	42686.2	86995.4	66291.0	56010.5	68629.6	320612.7
Sand	m <sup>3</sup>	525.0	1071.9	795.9	730.1	853.3	3976.2
Cement	bag	0.0	20.0	129.8	134.9	25.0	309.7
River Stone	m <sup>3</sup>	0.0	0.0	12.8	6.4	0.0	19.2
Steel Hooids	set	0.0	8.0	50.0	53.0	10.0	121.0
Timber	m <sup>3</sup>	0.0	62.0	12.1	0.0	0.0	74.1
Paint	l	0.0	433.5	95.8	0.0	0.0	529.3
Reinforcing Steel	kg	0.0	255.2	1595.0	1690.7	319.0	3859.9
Tying Wire	kg	0.0	2.3	14.5	15.3	2.9	35.0
Equivalent Royalty	m <sup>3</sup>	17262.3	40600.3	54704.9	64731.8	50443.9	227743.2

CONSTRUCTION AND MAINTENANCE QUANTITIES  
FOR ALL PROPOSED ROAD LINKS  
(MAINTENANCE)

PROV : SUMATERA SELATAN      KAB : BANGKA

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	0.0	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader	hr	481.5	981.0	1014.7	1175.8	1413.9	5066.9
Hand-guide Vib. Roller	hr	1552.5	3450.0	3712.5	4275.0	4545.0	17535.0
Tire Roller	hr	481.5	981.0	1014.7	1175.8	1413.9	5066.9
Vibratory Roller (D&I)	hr	0.0	0.0	0.0	0.0	0.0	0.0
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	0.0	0.0	0.0
Wheel Loader	hr	265.4	564.2	596.5	697.1	802.4	2925.6
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	4695.4	10280.2	10998.8	12727.0	13897.3	52598.7
Flat Bed Truck with Crane	hr	1810.8	3970.6	4464.7	5959.4	8010.9	24216.4
Flat Bed Truck	hr	3032.3	6406.9	6740.6	7781.6	8870.8	32832.2
Portable Crusher/Screening	hr	135.6	288.7	305.3	356.8	409.9	1496.3
Concrete Mixer	hr	2.4	5.7	5.7	6.6	7.5	27.9
Water Pump	hr	2.4	5.7	5.7	6.6	7.5	27.9
Concrete Vibrator	hr	2.4	5.7	5.7	6.6	7.5	27.9
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
<b>LABOUR :</b>							
Mandur	man day	1537.9	3313.2	3530.4	4110.3	4605.9	17097.7
Skilled Labourer	man day	1363.6	2994.3	3305.3	4084.1	4734.5	16481.8
Carpenter	man day	174.7	368.9	442.0	658.2	910.2	2554.0
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	18132.6	39087.3	41542.1	48026.4	53381.6	200170.0
Driver	man day	1666.4	3610.0	3890.9	4671.7	5482.7	19321.7
Operator	man day	250.7	519.2	541.4	629.4	744.3	2685.0
<b>MATERIAL :</b>							
Bitumen	l	13972.5	31050.0	33412.5	38475.0	40905.0	157815.0
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	1552.5	3450.0	3712.5	4275.0	4545.0	17535.0
Sand	m <sup>3</sup>	261.1	580.7	624.4	719.1	765.0	2950.3
Cement	bag	35.6	83.4	83.7	96.8	109.8	409.3
River Stone	m <sup>3</sup>	0.0	0.0	0.0	0.0	0.0	0.0
Steel Moulds	set	0.0	0.0	0.0	0.0	0.0	0.0
Timber	m <sup>3</sup>	15.7	33.0	39.7	59.3	82.2	229.9
Paint	l	109.1	229.4	276.6	415.1	576.9	1607.1
Reinforcing Steel	kg	183.0	428.9	430.1	497.9	564.7	2104.6
Tying Wire	kg	1.6	3.8	3.9	4.5	5.1	18.9
Equivalent Royalty	m <sup>3</sup>	3759.2	7989.5	8446.9	9872.7	11361.5	41429.8

CONSTRUCTION AND MAINTENANCE QUANTITIES  
FOR ALL PROPOSED ROAD LINKS  
(TOTAL)

PROV : SUMATERA SELATAN      KAB : BANGKA

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	431.4	731.4	1166.9	1764.0	1322.9	5416.6
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	51.9	51.9
Motor Grader	hr	1527.7	2990.9	4041.2	5266.6	4519.7	18346.1
Hand-guide Vib. Roller	hr	1567.9	3610.0	3834.3	4733.5	4581.6	18327.3
Tire Roller	hr	1352.3	2756.4	2376.7	2320.1	2813.8	11619.3
Vibratory Roller (D&T)	hr	724.1	1370.4	2019.8	2690.4	2099.4	8912.1
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	0.0	787.5	787.5
Wheel Loader	hr	1612.0	3493.9	4697.6	5923.4	4801.5	20528.4
Water Tank Truck	hr	404.6	901.2	1225.3	1465.1	1135.6	5131.8
Dump Truck	hr	14469.0	31617.2	41363.2	51138.0	42964.2	181551.6
Flat Bed Truck with Crane	hr	1810.8	4119.6	4540.4	6005.9	8018.9	24495.6
Flat Bed Truck	hr	4077.3	8591.1	8411.4	9172.9	10553.6	40806.3
Portable Crusher/Screening	hr	489.3	1152.7	1410.9	1639.6	1393.7	6086.2
Concrete Mixer	hr	2.4	7.0	21.8	19.4	9.2	59.8
Water Pump	hr	2.4	7.0	19.3	18.1	9.2	56.0
Concrete Vibrator	hr	2.4	7.0	14.2	15.6	9.2	48.4
Asphalt Sprayer	hr	870.8	1775.4	1362.0	1144.3	1399.9	6552.4
<b>LABOUR :</b>							
Mandur	man day	2229.3	5043.9	5548.5	6419.0	6375.0	25615.7
Skilled Labourer	man day	1896.4	5334.8	4418.2	5081.0	5601.2	22331.6
Carpenter	man day	174.7	1051.7	578.5	661.2	910.7	3376.8
Mason	man day	0.0	0.0	12.8	6.4	0.0	19.2
Labourer	man day	24936.3	56038.2	62283.8	69816.2	68599.5	281674.0
Driver	man day	3727.1	8155.0	9846.7	11905.5	11144.3	44778.6
Operator	man day	1394.3	2860.5	3709.5	4682.5	4070.3	16717.1
<b>MATERIAL :</b>							
Bitumen	l	192632.3	395010.4	330864.5	295295.6	328172.7	1541975.5
Asphalt Oil	l	35704.1	72792.0	52112.0	43099.9	57400.0	261108.0
Kerosene	l	44238.7	90445.4	70003.5	60285.5	73174.6	338147.7
Sand	m <sup>3</sup>	786.1	1652.6	1420.3	1449.2	1618.3	6926.5
Cement	bag	35.6	103.4	213.5	231.7	134.8	719.0
River Stone	m <sup>3</sup>	0.0	0.0	12.8	6.4	0.0	19.2
Steel Moulds	set	0.0	8.0	50.0	53.0	10.0	121.0
Timber	m <sup>3</sup>	15.7	95.0	51.8	59.3	82.2	304.0
Paint	l	109.1	662.9	372.4	415.1	576.9	2136.4
Reinforcing Steel	kg	183.0	684.1	2025.1	2188.6	883.7	5964.5
Tying Wire	kg	1.6	6.1	18.4	19.8	8.0	53.9
Equivalent Royalty	m <sup>3</sup>	21021.5	48589.8	63151.8	74604.5	61805.4	269173.0



CONSTRUCTION AND MAINTENANCE COSTS  
FOR ALL PROPOSED ROAD LINKS  
(CONSTRUCTION)

PROV : SUMATERA SELATAN      KAB : BANGKA

( 1000 Rp )

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>		130,581	279,656	375,816	470,139	376,069	1,632,261
Bulldozer/Ripper	15621	6,738	11,425	18,228	27,555	20,665	84,611
Swamp Bulldozer	11524	0	0	0	0	598	598
Motor Grader	13336	13,952	26,804	40,361	54,554	41,418	177,089
Hand-guide Vib. Roller	1516	23	242	184	695	55	1,199
Tire Roller	10646	9,270	18,900	14,499	12,182	14,903	69,754
Vibratory Roller (O&T)	6653	4,817	9,117	13,437	17,952	13,967	59,290
Hydraulic Excavator; Wheel	12517	0	0	0	0	9,857	9,857
Wheel Loader	16468	22,175	48,246	67,536	86,066	65,857	289,880
Water Tank Truck	3864	1,563	3,482	4,734	5,661	4,387	19,827
Dump Truck	5280	51,604	112,659	160,324	202,810	153,473	680,870
Flat Bed Truck with Crane	4956	0	738	375	230	39	1,382
Flat Bed Truck	3274	3,421	7,151	5,470	4,555	5,509	26,106
Portable Crusher/Screening	43276	15,306	37,390	47,845	55,514	42,574	198,629
Concrete Mixer	8457	0	10	136	108	14	268
Water Pump	467	0	0	6	5	0	11
Concrete Vibrator	388	0	0	2	2	0	4
Asphalt Sprayer	1967	1,712	3,492	2,679	2,250	2,753	12,886
<b>LABOUR :</b>		29,031	73,985	85,258	94,612	70,556	353,442
Mandur	3000	2,074	5,192	6,054	6,926	5,307	25,553
Skilled Labourer	2750	1,465	6,436	3,060	2,741	2,383	16,085
Carpenter	3500	0	2,389	477	10	1	2,877
Mason	3500	0	0	44	22	0	66
Labourer	2250	15,308	38,139	46,668	49,027	34,240	183,382
Driver	3000	6,182	13,635	17,867	21,701	16,984	76,369
Operator	3500	4,002	8,194	11,088	14,185	11,641	49,110
<b>MATERIAL :</b>		100,955	218,309	169,989	147,077	167,356	803,686
Bitumen	300	53,597	109,188	89,235	77,046	86,180	415,246
Asphalt Oil	850	30,348	61,873	44,295	36,634	48,790	221,940
Kerosene	250	10,671	21,748	16,572	14,002	17,157	80,150
Sand	5500	2,887	5,895	4,377	4,015	4,693	21,867
Cement	4800	0	96	623	647	120	1,486
River Stone	7500	0	0	96	48	0	144
Steel Moulds	7000	0	56	350	371	70	847
Timber	155000	0	9,610	1,875	0	0	11,485
Paint	3500	0	1,517	335	0	0	1,852
Reinforcing Steel	800	0	204	1,276	1,352	255	3,087
Tying Wire	1100	0	2	15	16	3	36
Equivalent Royalty	200	3,452	8,120	10,940	12,946	10,088	45,546

CONSTRUCTION AND MAINTENANCE COSTS  
FOR ALL PROPOSED ROAD LINKS  
(MAINTENANCE)

PROV : SUMATERA SELATAN      KAB : BANGKA

( 1000 Rp )

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>		67,851	145,523	155,316	183,864	213,937	766,491
Bulldozer/Ripper	15621	0	0	0	0	0	0
Swaap Bulldozer	11524	0	0	0	0	0	0
Motor Grader	13336	6,421	13,082	13,532	15,680	18,855	67,570
Hand-guide Vib. Roller	1516	2,353	5,230	5,628	6,480	6,890	26,581
Tire Roller	10646	5,126	10,443	10,802	12,517	15,052	53,940
Vibratory Roller (D&T)	6653	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12517	0	0	0	0	0	0
Wheel Loader	16468	4,370	9,291	9,823	11,479	13,213	48,176
Water Tank Truck	3864	0	0	0	0	0	0
Dump Truck	5280	24,791	54,279	58,073	67,198	73,377	277,718
Flat Bed Truck with Crane	4956	8,974	19,678	22,127	29,534	39,702	120,015
Flat Bed Truck	3274	9,927	20,976	22,068	25,476	29,042	107,489
Portable Crusher/Screening	43276	5,868	12,493	13,212	15,440	17,738	64,751
Concrete Mixer	8457	20	48	48	55	63	234
Water Pump	467	1	2	2	3	3	11
Concrete Vibrator	308	0	1	1	2	2	6
Asphalt Sprayer	1967	0	0	0	0	0	0
<b>LABOUR :</b>		55,647	120,057	128,262	150,140	169,182	623,288
Mandur	3000	4,613	9,939	10,591	12,330	13,817	51,290
Skilled Labourer	2750	3,749	8,234	9,089	11,231	13,019	45,322
Carpenter	3500	611	1,291	1,547	2,303	3,185	8,937
Mason	3500	0	0	0	0	0	0
Labourer	2250	40,798	87,946	93,469	108,059	120,108	450,380
Driver	3000	4,999	10,830	11,672	14,015	16,448	57,964
Operator	3500	877	1,817	1,894	2,202	2,605	9,395
<b>MATERIAL :</b>		9,897	21,631	23,944	30,048	35,629	121,149
Bitumen	300	4,191	9,315	10,023	11,542	12,271	47,342
Asphalt Oil	850	0	0	0	0	0	0
Kerosene	250	388	862	928	1,068	1,136	4,382
Sand	5500	1,436	3,193	3,434	3,955	4,207	16,225
Cement	4800	170	400	401	464	527	1,962
River Stone	7500	0	0	0	0	0	0
Steel Houlds	7000	0	0	0	0	0	0
Timber	155000	2,433	5,115	6,153	9,191	12,741	35,633
Paint	3500	381	802	968	1,452	2,019	5,622
Reinforcing Steel	800	146	343	344	398	451	1,682
Tying Wire	1100	1	4	4	4	5	18
Equivalent Royalty	200	751	1,597	1,689	1,974	2,272	8,283

CONSTRUCTION AND MAINTENANCE COSTS  
FOR ALL PROPOSED ROAD LINKS  
(TOTAL)

PROV : SUMATERA SELATAN      KAB : BANGKA

( 1000 Rp )

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>		198,432	425,179	531,132	654,003	590,006	2,398,752
Bulldozer/Ripper	15621	6,738	11,425	18,228	27,555	20,665	84,611
Swamp Bulldozer	11524	0	0	0	0	598	598
Motor Grader	13336	20,373	39,886	53,893	70,234	60,273	244,659
Hand-guide Vib. Roller	1516	2,376	5,472	5,812	7,175	6,945	27,780
Tire Roller	10646	14,396	29,343	25,301	24,699	29,955	123,694
Vibratory Roller (D&I)	6653	4,817	9,117	13,437	17,952	13,967	59,290
Hydraulic Excavator; Wheel	12517	0	0	0	0	9,857	9,857
Wheel Loader	16468	26,545	57,537	77,359	97,545	79,070	338,056
Water Tank Truck	3864	1,563	3,482	4,734	5,661	4,387	19,827
Dump Truck	5280	76,395	166,938	218,397	270,008	226,850	958,588
Flat Bed Truck with Crane	4956	8,974	20,416	22,502	29,764	39,741	121,397
Flat Bed Truck	3274	13,348	28,127	27,538	30,031	34,551	133,595
Portable Crusher/Screening	43276	21,174	49,883	61,057	70,954	60,312	263,380
Concrete Mixer	8457	20	58	184	163	77	502
Water Pump	467	1	2	8	8	3	22
Concrete Vibrator	308	0	1	3	4	2	10
Asphalt Sprayer	1967	1,712	3,492	2,679	2,250	2,753	12,886
<b>LABOUR :</b>		84,678	194,042	213,520	244,752	239,738	976,730
Handur	3000	6,687	15,131	16,645	19,256	19,124	76,843
Skilled Labourer	2750	5,214	14,670	12,149	13,972	15,402	61,407
Carpenter	3500	611	3,680	2,024	2,313	3,186	11,814
Mason	3500	0	0	44	22	0	66
Labourer	2250	56,106	126,085	140,137	157,086	154,348	633,762
Driver	3000	11,181	24,465	29,539	35,716	33,432	134,333
Operator	3500	4,879	10,011	12,982	16,387	14,246	58,505
<b>MATERIAL :</b>		110,852	239,940	193,933	177,125	202,985	924,835
Bitumen	300	57,788	118,503	99,258	88,588	98,451	462,588
Asphalt Oil	850	30,348	61,873	44,295	36,634	48,790	221,940
Kerosene	250	11,059	22,610	17,500	15,070	18,293	84,532
Sand	5500	4,323	9,088	7,811	7,970	8,900	38,092
Cement	4800	170	496	1,024	1,111	647	3,448
River Stone	7500	0	0	96	48	0	144
Steel Moulds	7000	0	56	350	371	70	847
Timber	155000	2,433	14,725	8,028	9,191	12,741	47,118
Paint	3500	381	2,319	1,303	1,452	2,019	7,474
Reinforcing Steel	800	146	547	1,620	1,750	706	4,769
Tying Wire	1100	1	6	19	20	8	54
Equivalent Royalty	200	4,203	9,717	12,629	14,920	12,360	53,829

## Appendix A-6

## QUANTITIES OF BRIDGE ON PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO	BRIDGE NAME	Ka	From	« TYPE »		DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST)	(NEW)			
77	N.I	7	KPSR	KK				6.00	2	3.00	6.00	36.00		1	2	111B-2
	N.I	8	KPSR	KK				3.00	1	3.00	5.00	15.00		0	2	
	N.I	8	KPSR	KB				2.00	1	2.00	5.00	10.00		0	2	
79	N.I	2	KOBA	KK				7.00	1	7.00	4.50	31.50		0	2	111B-2
	N.I	7	KOBA	KK				7.00	2	3.50	4.50	31.50		1	2	
	N.I	10	KOBA	KK				13.00	4	3.25	4.50	58.50		3	2	
	N.I	12	KOBA	KK				7.00	2	3.50	4.50	31.50		1	2	
	N.I	16	KOBA	KK				10.00	3	3.33	4.50	45.00		2	2	
	N.I	16	KOBA	KK				7.00	2	3.50	4.50	31.50		1	2	
	N.I	19	KOBA	KK				13.00	5	2.60	4.50	58.50		4	2	
	N.I	19	KOBA	KK				20.00	5	4.00	4.50	90.00		4	2	
	N.I	20	KOBA	KK				5.00	2	2.50	4.50	22.50		1	2	
	N.I	21	KOBA	KK				8.00	2	4.00	4.50	36.00		1	2	
	N.I	23	KOBA	KK				16.00	5	3.20	4.50	72.00		4	2	
	N.I	26	KOBA	KK				4.00	1	4.00	4.50	18.00		0	2	
	N.I	26	KOBA	KK				12.00	4	3.00	4.50	54.00		3	2	
	N.I	27	KOBA	KK				6.00	1	6.00	4.50	27.00		0	2	
	N.I	29	KOBA	KK				5.00	1	5.00	4.50	22.50		0	2	
N.I	30	KOBA	KK				9.00	3	3.00	4.50	40.50		2	2		
N.I	30	KOBA	KK				7.00	2	3.50	4.50	31.50		1	2		
N.I	33	KOBA	KK				13.00	5	2.60	4.50	58.50		4	2		
82	N.I	6	JHAR	KK				5.00	1	5.00	4.50	22.50		0	2	111C
	N.I	7	JHAR	KK				9.00	3	3.00	4.50	40.50		2	2	
	N.I	8	JHAR	KK				6.00	1	6.00	4.50	27.00		0	2	
	N.I	9	JHAR	KK				5.00	1	5.00	4.50	22.50		0	2	
	N.I	10	JHAR	KK	TH	10T	(C)	20.00	3	6.67	4.00	90.00	80.00	2	2	
	N.I	10	JHAR	KK				8.00	1	8.00	4.50	36.00		0	2	
	N.I	10	JHAR	KK				6.00	1	6.00	4.50	27.00		0	2	
98	N.I	2	SMTR	KK				30.00	10	3.00	6.00	180.00		9	2	111A
	N.I	4	SHTR	KK				33.00	10	3.30	6.00	198.00		9	2	
102	N.I	1	SKAL	--	TH	10T	(B)	4.00	1	4.00	4.00	0.00	16.00	0	2	111B-1
	N.I	5	SKAL	KK				8.00	2	4.00	8.00	64.00		1	2	
	N.I	11	SKAL	KB				2.00	1	2.00	9.00	18.00		0	2	
	N.I	11	SKAL	KB				2.00	1	2.00	9.00	18.00		0	2	
	N.I	13	SKAL	KK				10.00	2	5.00	8.00	80.00		1	2	
103	N.I	7	KNDI	KK				65.00	16	4.06	5.00	325.00		15	2	111B-2

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO	BRIDGE NAME	Km	From	« TYPE »		DESIGN LOAD CLASS	SPAN CLASS	LENGTH (m)	SPAN NO	SPAN LENGTH (m)	WIDTH (m)	AREA (EXIST) (m2)	AREA (NEW) (m2)	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)											
46	AIR SENKENG 1	3	TIRM	KB				5.00	1	5.00	5.00	25.00		0	2	111B-1
	AIR SENKENG 2	3	TIRM	KB				5.00	1	5.00	5.00	25.00		0	2	
	N.I	4	TIRM	KB				7.00	1	7.00	5.00	35.00		0	2	
	N.I	8	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
	N.I	8	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
	MANUNGGAL 1	9	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
	MANUNGGAL 2	9	TIRM	KB				6.00	1	6.00	5.00	30.00		0	2	
	MANUNGGAL 3	9	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
	N.I	11	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
	N.I	12	TIRM	KB				6.00	1	6.00	5.00	30.00		0	2	
	N.I	14	TIRM	KB				4.00	1	4.00	5.00	20.00		0	2	
58	N.I	2	SULI	KK				5.00	2	2.50	5.00	25.00		1	2	111B-2
	N.I	3	SULI	KK				10.00	3	3.33	5.00	50.00		2	2	
	N.I	4	SULI	KK				2.00	1	2.00	4.00	8.00		0	2	
	N.I	4	SULI	KK				2.00	1	2.00	4.00	8.00		0	2	
	N.I	5	SULI	KK				3.00	1	3.00	5.00	15.00		0	2	
	N.I	8	SULI	KK				2.00	1	2.00	5.00	10.00		0	2	
	TEBET KALOK	10	SULI	KK				2.00	1	2.00	5.00	10.00		0	2	
	N.I	11	SULI	KK				2.00	1	2.00	5.00	10.00		0	2	
	N.I	14	SULI	KK				2.00	1	2.00	5.00	10.00		0	2	
	TEBET	14	SULI	KK				5.00	2	2.50	5.00	25.00		1	2	
	N.I	17	SULI	KB				3.00	1	3.00	5.00	15.00		0	2	
	N.I	17	SULI	KB				3.00	1	3.00	5.00	15.00		0	2	
	N.I	17	SULI	KB				2.00	1	2.00	5.00	10.00		0	2	
	N.I	20	SULI	KB				4.00	1	4.00	6.00	24.00		0	2	
	LAYANG	21	SULI	KK				22.00	2	11.00	6.00	132.00		1	2	
	N.I	23	SULI	KB				2.00	1	2.00	5.00	10.00		0	2	
	N.I	25	SULI	KB				3.00	1	3.00	5.00	15.00		0	2	
	KABAT	29	SULI	KB				12.00	1	12.00	6.00	72.00		0	2	
	N.I	31	SULI	KB				3.00	1	3.00	5.00	15.00		0	2	
	N.I	32	SULI	KB				2.00	1	2.00	5.00	10.00		0	2	
N.I	33	SULI	KB				12.00	3	4.00	5.00	60.00		2	2		
N.I	36	SULI	KB				2.00	1	2.00	5.00	10.00		0	2		
73	N.I	1	TLLN	KK				8.00	1	8.00	4.00	32.00		0	2	111B-1
	N.I	3	TLLN	KK				8.00	1	8.00	4.00	32.00		0	2	
	N.I	4	TLLN	KK				5.00	1	5.00	4.00	20.00		0	2	
	N.I	4	TLLN	KK				9.00	1	9.00	4.00	36.00		0	2	
74	AIR PALAWAN 1	1	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	111B-2
	N.I	2	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.I	2	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.I	2	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.I	3	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.I	3	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.I	4	PLWN	KK				5.00	1	5.00	4.00	20.00		0	2	
77	N.I	1	KPSR	KB				20.00	1	20.00	5.00	100.00		0	2	111B-2
	N.I	1	KPSR	KB				2.00	1	2.00	5.00	10.00		0	2	
	N.I	2	KPSR	KB				2.00	1	2.00	5.00	10.00		0	2	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO	BRIDGE NAME	Km	From	<< TYPE >>		DESIGN LOAD	SPAN CLASS	LENGTH (a)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (a)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST)	(NEW)			
37	N.I	23	PYNG	KB			2.00	1	2.00	5.00	10.00			0	2	111B-1
	N.I	25	PYNG	KB			2.00	1	2.00	5.00	10.00			0	2	
38	N.I	2	SRM	KB			2.00	1	2.00	5.00	10.00			0	2	111B-2
	N.I	6	SRM	KB			2.00	1	2.00	5.00	10.00			0	2	
	N.I	7	SRM	KB			2.00	1	2.00	5.00	10.00			0	2	
	N.I	11	SRM	KB			4.00	1	4.00	5.00	20.00			0	2	
	N.I	14	SRM	KB			3.50	1	3.50	5.00	17.50			0	2	
	N.I	17	SRM	KB			3.50	1	3.50	5.00	17.50			0	2	
	N.I	18	SRM	KB			3.50	1	3.50	5.00	17.50			0	2	
	N.I	18	SRM	KB			2.00	1	2.00	5.00	10.00			0	2	
39	MENGGRIS	5	BDNG	KB			3.00	1	3.00	6.00	18.00			0	2	111B-2
	RATU	7	BDNG	KB			11.50	1	11.50	6.90	79.35			0	2	
	MEMBAYAH	0	BDNG	KB			2.00	1	2.00	6.00	12.00			0	2	
	PLESET	8	BDNG	KB			2.00	1	2.00	6.00	12.00			0	2	
	PAYUNG	14	BDNG	KB			3.00	1	3.00	6.00	18.00			0	2	
41	AIR BEGAS	2	ARGG	KB			2.00	1	2.00	6.00	12.00			0	2	111B-2
	ATONG	7	ARGG	KB			2.00	1	2.00	6.00	12.00			0	2	
	GERTAK	8	ARGG	GB			8.00	1	8.00	4.20	33.60			0	2	
	LABANTAM	14	ARGG	KB			4.80	1	4.80	6.00	28.80			0	2	
	NYELANDING	14	ARGG	KB			4.70	1	4.70	6.00	28.20			0	2	
	DEKAT	14	ARGG	GB			9.00	1	9.00	4.20	37.80			0	2	
	BEDEUNGUNG	14	ARGG	KB			5.00	1	5.00	6.00	30.00			0	2	
44	N.I	2	TBAL	KK			6.00	1	6.00	5.00	30.00			0	2	111B-2
	N.I	3	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
	N.I	3	TBAL	KK			7.00	2	3.50	5.00	35.00			1	2	
	N.I	4	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
	N.I	4	TBAL	KK			6.00	1	6.00	5.00	30.00			0	2	
	N.I	5	TBAL	KK			4.00	1	4.00	5.00	20.00			0	2	
	N.I	5	TBAL	KK			4.00	1	4.00	5.00	20.00			0	2	
	N.I	6	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
	N.I	8	TBAL	KK			4.00	1	4.00	5.00	20.00			0	2	
	N.I	9	TBAL	KK			4.00	1	4.00	5.00	20.00			0	2	
	N.I	9	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
	N.I	9	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
	N.I	10	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2	
N.I	11	TBAL	KK			6.00	1	6.00	5.00	30.00			0	2		
N.I	12	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2		
N.I	12	TBAL	KK			5.00	1	5.00	5.00	25.00			0	2		
45	TENAYANG	3	TBLI	KB			3.20	2	1.60	4.20	13.44			1	2	111B-1
	RIAS I	4	TBLI	KK			2.00	1	2.00	4.00	8.00			0	2	
	RIAS II	6	TBLI	KK			3.50	1	3.50	4.00	14.00			0	2	
	MENKUBANG	8	TBLI	KB			2.50	1	2.50	4.20	10.50			0	2	
	PUMPUNG	10	TBLI	GB			8.00	1	8.00	4.20	33.60			0	2	
	RIAS	14	TBLI	GB			7.00	1	7.00	4.20	29.40			0	2	
46	AIR TIRAK	1	TIRM	KB			5.00	1	5.00	5.00	25.00			0	2	111B-1

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO	BRIDGE NAME	Km	From	(( TYPE ))		DESIGN LOAD CLASS	SPAN LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA (EXIST) (m2)	AREA (NEW) (m2)	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)										
11	N.I	13	KTWR	KK		3.00	1	3.00	4.00	12.00			0	2	111B-1
	N.I	14	KTWR	KK		4.00	1	4.00	4.50	18.00			0	2	
	N.I	17	KTWR	KK		3.00	1	3.00	4.50	13.50			0	2	
	N.I	20	KTWR	KB		4.00	1	4.00	5.00	20.00			0	2	
	N.I	20	KTWR	KB		6.00	1	6.00	5.00	30.00			0	2	
	N.I	20	KTWR	KB		12.00	3	4.00	5.00	60.00			2	2	
	N.I	20	KTWR	KB		6.00	1	6.00	5.00	30.00			0	2	
	N.I	20	KTWR	KB		5.00	1	5.00	5.00	25.00			0	2	
	N.I	20	KTWR	KB		5.00	1	5.00	5.00	25.00			0	2	
	AIR PUDING	24	KTWR	KB		5.00	1	5.00	5.00	25.00			0	2	
16	N.I	4	SPJR	KB		7.00	1	7.00	6.00	42.00			0	2	111A
	N.I	5	SPJR	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	5	SPJR	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	9	SPJR	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	10	SPJR	KB		5.00	1	5.00	6.00	30.00			0	2	
	N.I	10	SPJR	KB		5.00	1	5.00	6.00	30.00			0	2	
	N.I	10	SPJR	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	10	SPJR	KB		4.00	1	4.00	6.00	24.00			0	2	
20	N.I	5	TRBK	KK		12.50	4	3.13	5.00	62.50			3	2	111C
	N.I	6	TRBK	KK		5.50	2	2.75	5.00	27.50			1	2	
	N.I	7	TRBK	KK		3.00	1	3.00	5.00	15.00			0	2	
24	N.I	1	PLGS	KB		3.00	1	3.00	5.00	15.00			0	2	111B-2
	N.I	2	PLGS	KB		2.00	1	2.00	4.00	8.00			0	2	
	N.I	10	PLGS	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	10	PLGS	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	11	PLGS	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	12	PLGS	KB		2.00	1	2.00	5.00	10.00			0	2	
32	AIR KEBINTI 1	2	SPSP	KB		9.00	1	9.00	6.00	54.00			0	2	111B-1
	AIR KEBINTI 2	2	SPSP	LL		13.00	1	13.00	6.00	78.00			0	2	
	AIR KEBINTI 3	2	SPSP	KB		7.00	1	7.00	6.00	42.00			0	2	
	AIR PANGKOL	9	SPSP	KB		9.00	1	9.00	5.00	45.00			0	2	
36	N.I	3	TJBK	KK		13.00	3	4.33	4.50	58.50			2	2	111B-1
	N.I	8	TJBK	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	8	TJBK	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	12	TJBK	KB		4.00	1	4.00	6.00	24.00			0	2	
	N.I	13	TJBK	KK		13.00	3	4.33	4.50	58.50			2	2	
	N.I	15	TJBK	KK		13.00	5	2.60	4.50	58.50			4	2	
	N.I	18	TJBK	KK		4.00	1	4.00	4.50	18.00			0	2	
	N.I	22	TJBK	KK		4.00	1	4.00	4.50	18.00			0	2	
37	MADUNG	3	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	111B-1
	N.I	6	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	7	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	
	PETALING	8	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	15	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	
	N.I	23	PYNG	KB		2.00	1	2.00	5.00	10.00			0	2	

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO	BRIDGE NAME	Km	From	« TYPE »		DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST)	(NEW)			
I	N.1	1	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	IIIB-2
	N.1	3	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	5	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	6	PRT3	KK				15.00	4	3.75	5.00	75.00		3	2	
	N.1	6	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	7	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	7	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	8	PRT3	KK				11.00	3	3.67	5.00	55.00		2	2	
	N.1	9	PRT3	KK				5.00	1	5.00	5.00	25.00		0	2	
	N.1	11	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	12	PRT3	KK				11.00	2	5.50	5.00	55.00		1	2	
	N.1	12	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	12	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	13	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	14	PRT3	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.1	15	PRT3	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.1	16	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	16	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	18	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	20	PRT3	KK				6.00	1	6.00	5.00	30.00		0	2	
N.1	26	PRT3	KK				20.00	5	4.00	5.00	100.00		4	2		
N.1	26	PRT3	KK				16.00	2	8.00	5.00	80.00		1	2		
5	N.1	1	PLWN	KK				10.00	2	5.00	5.00	50.00		1	2	IIIC
	N.1	1	PLWN	KK				6.00	2	3.00	5.00	30.00		1	2	
	N.1	1	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	3	PLWN	KK				10.00	2	5.00	5.00	50.00		1	2	
	N.1	4	PLWN	KK				8.00	2	4.00	5.00	40.00		1	2	
	N.1	5	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	5	PLWN	KK				10.00	2	5.00	5.00	50.00		1	2	
	N.1	6	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	8	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	8	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.1	8	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2	
	N.1	8	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	9	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	9	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	10	PLWN	KK				12.00	3	4.00	5.00	60.00		2	2	
	N.1	13	PLWN	KK				10.00	2	5.00	5.00	50.00		1	2	
	N.1	13	PLWN	KK				8.00	2	4.00	5.00	40.00		1	2	
	N.1	13	PLWN	KK				6.00	1	6.00	5.00	30.00		0	2	
	N.1	14	PLWN	KK				15.00	3	5.00	5.00	75.00		2	2	
	N.1	14	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2	
N.1	14	PLWN	KK				7.00	1	7.00	5.00	35.00		0	2		
N.1	16	PLWN	KK				10.00	2	5.00	5.00	50.00		1	2		
II	N.1	2	KTWR	KK	TM	10T	(B)	4.00	1	4.00	4.00	18.00	16.00	0	2	IIIB-1
	AIR NYIUR 1	4	KTWR	KK				5.00	2	2.50	4.50	22.50		1	2	
	AIR NYIUR 2	4	KTWR	KK	TM	10T	(B)	4.00	1	4.00	4.00	18.00	16.00	0	2	
	N.1	7	KTWR	KK				6.00	2	3.00	4.50	27.00		1	2	
	N.1	11	KTWR	KK				4.50	1	4.50	4.50	20.25		0	2	



## Appendix A-7

CONSTRUCTION AND MAINTENANCE COST OF BRIDGES  
ON PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 1 (IIB-2) LENGTH : 27 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span 10m;BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span 15m;BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,595	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	880.00	8,658	2,513	7,619,040	2,211,440	9,830,480
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 5 (IIIC) LENGTH : 16 Km

( Rp )

IT E N	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;TOT)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;TOT)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8m;TOT)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BN50)	m2	0.00	68,784	5,718	0	0	0
Superstructure (Timber;Span 5m;BN50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BN50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BN50)	m2	0.00	59,900	90,843	0	0	0
Superstructure (Concrete;Span 5m;BN50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BN50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span 10m;BN50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span 15m;BN50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;TOT)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;TOT)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BN50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BN50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BN50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	875.00	8,658	2,513	7,575,750	2,198,875	9,774,625
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0
( Overhead : 15% )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 11 (IIIB-1) LENGTH : 25 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	32.00	61,623	5,106	1,971,936	163,392	2,135,328
Superstructure (Timber; Span 8a; 10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	4.00	1,300,552	189,409	5,202,208	757,636	5,959,844
Substructure (Pier; for Timber; BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	36.00	15,295	1,728	550,620	62,208	612,828
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	32.00	9,888	1,343	316,416	42,976	359,392
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	113.25	8,658	2,513	980,518	284,597	1,265,115
Maintenance of Concrete Bridge (Exist)	m2	215.00	4,130	2,403	887,950	516,645	1,404,595
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( Without Overhead )		TOTAL COST (Timber Bridge)			7,724,764	983,236	8,708,000
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			7,724,764	983,236	8,708,000
<hr/>							
( Overhead : 15% )		TOTAL COST (Timber Bridge)			8,883,479	1,130,721	10,014,200
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			8,883,479	1,130,721	10,014,200

PROV : SUMATERA BELATAN KAB : BANGKA

LINK NO : 16 (IIIA) LENGTH : 12 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;LOT)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;LOT)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8m;LOT)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span 10m;BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span 15m;BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;LOT)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;LOT)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	222.00	4,130	2,403	916,860	533,466	1,450,326
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 20 (TIC) LENGTH : 9 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;101)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;101)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;101)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BHSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BHSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BHSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;101)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;101)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	105.00	8,658	2,513	909,090	263,865	1,172,955
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUNATERA SELATAN KAB : BANGKA  
 LINK NO : 24 (IIIB-2) LENGTH : 24 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	81,622	8,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	68,984	5,710	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	63.00	4,130	2,403	260,190	151,389	411,579
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( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
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( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 32 (IIB-1) LENGTH : 9 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	#2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	#2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	#2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BMSO)	#2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BMSO)	#2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BMSO)	#2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BMSO)	#2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BMSO)	#2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BMSO)	#2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BMSO)	#2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BMSO)	#2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	#2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	#2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	#2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	#2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	#2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	#2	78.00	8,658	2,513	675,324	196,014	871,338
Maintenance of Concrete Bridge (Exist)	#2	141.00	4,130	2,403	582,330	338,823	921,153
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( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
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( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 36 (IIIB-1) LENGTH : 32 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10m;BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15m;BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	211.50	8,658	2,513	1,831,167	531,499	2,362,666
Maintenance of Concrete Bridge (Exist)	m2	72.00	4,130	2,403	297,360	173,016	470,376
<hr/>							
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0



PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 37 (IIIB-1) LENGTH : 28 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	m0	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	m0	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BMSO)	m0	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BMSO)	m0	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BMSO)	m0	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BMSO)	m0	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	80.00	4,130	2,403	330,400	192,240	522,640
<hr/>							
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
( Overhead 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 38 (IIB-2) LENGTH : 19 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;101)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;101)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;101)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BHSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BHSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BHSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;101)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;101)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,881	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	112.50	4,130	2,403	464,625	270,337	734,962
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAD : BANGKA  
 LINK NO : 39 (IIIB-2) LENGTH : 16 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; IOT)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; IOT)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; IOT)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	139.35	4,130	2,403	575,515	334,858	910,373
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 41 (IIB-2) LENGTH : 24 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3m; BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BH50)	m2	0.00	68,050	125,030	0	0	0
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	182.40	4,130	2,403	753,312	438,307	1,191,619
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 44 (IIIB-2) LENGTH : 24 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	405.00	8,658	2,513	3,506,490	1,017,765	4,524,255
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
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( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
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( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PRDV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 45 (IIB-1) LENGTH : 16 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 101)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; 101)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; 101)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	22.00	8,658	2,513	190,476	55,286	245,762
Maintenance of Concrete Bridge (Exist)	m2	86.94	4,130	2,403	359,062	208,916	567,978
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( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
LINK NO : 46 (IIIB-1) LENGTH : 14 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;IOT)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;IOT)	m2	0.00	61,623	5,166	0	0	0
Superstructure (Timber;Span 8m;IOT)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BHSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5m;BHSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BHSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BHSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5m;BHSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BHSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span 10m;BHSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span 15m;BHSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;IOT)	m2	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;IOT)	m2	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	m2	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	m2	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	m2	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BHSO)	m2	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,880	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,658	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	290.00	4,130	2,403	1,197,700	696,870	1,894,570
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( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 58 (IIIB-2) LENGTH : 39 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3a; BNSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5a; BNSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8a; BNSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3a; BNSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5a; BNSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8a; BNSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10a; BNSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15a; BNSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BNSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BNSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BNSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BNSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	303.00	8,658	2,513	2,623,374	761,439	3,384,813
Maintenance of Concrete Bridge (Exist)	m2	256.00	4,130	2,403	1,057,280	615,168	1,672,448
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0



PROV : SUMATERA SELATAN      KAB : BANGKA  
 LINK NO : 73 (IIIB-1)      LENGTH : 4 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;101)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;101)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;101)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BHSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BHSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BHSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;101)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;101)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	120.00	8,658	2,513	1,038,960	301,560	1,340,520
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
-----							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
-----							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 74 (IIIB-2) LENGTH : 6 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	210.00	8,658	2,513	1,818,180	527,730	2,345,910
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 77 (IIB-2) LENGTH : 9 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;101)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5m;101)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8m;101)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3m;BMS0)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5m;BMS0)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8m;BMS0)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3m;BMS0)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5m;BMS0)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8m;BMS0)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span 10m;BMS0)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span 15m;BMS0)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;101)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;101)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BMS0)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BMS0)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BMS0)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BMS0)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	51.00	8,658	2,513	441,558	128,163	569,721
Maintenance of Concrete Bridge (Exist)	m2	130.00	4,130	2,403	536,900	312,390	849,290
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( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 79 (IIIB-2) LENGTH : 33 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,082,835	472,599	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,605	0	0	0
Maintenance of Timber Bridge (Exist)	m2	760.50	8,658	2,513	6,584,409	1,911,136	8,495,545
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 02 (IIC) LENGTH : 8 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; IOT)	m2	80.00	81,622	6,704	6,529,760	536,320	7,066,080
Superstructure (Timber; Span 3m; BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; IOT)	NO	2.00	404,615	43,111	969,230	86,222	1,055,452
Substructure (Abut; for Timber; IOT)	NO	2.00	1,300,552	189,409	2,601,104	378,818	2,979,922
Substructure (Pier; for Timber; BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	90.00	15,295	1,728	1,376,550	155,520	1,532,070
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	80.00	9,888	1,343	791,040	107,440	898,480
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	175.50	8,658	2,513	1,519,479	441,031	1,960,510
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				11,476,644	1,156,880	12,633,524
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				11,476,644	1,156,880	12,633,524
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( Overhead : 15% )	TOTAL COST (Timber Bridge)				13,198,141	1,330,412	14,528,553
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				13,198,141	1,330,412	14,528,553

PROV : SUMATERA SELATAN KAB : BANGKA

LINK NO : 98 (IIIA) LENGTH : 5 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,082,835	472,599	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	378.00	8,658	2,513	3,272,724	949,914	4,222,638
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : BANJKA  
 LINK NO : 102 (IIIB-1) LENGTH : 13 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	16.00	61,623	5,106	985,968	81,696	1,067,664
Superstructure (Timber;Span 8a;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	2.00	1,300,552	189,409	2,601,104	378,818	2,979,922
Substructure (Pier;for Timber;BH50)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	16.00	9,888	1,343	158,208	21,488	179,696
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	144.00	8,658	2,513	1,246,752	361,872	1,608,624
Maintenance of Concrete Bridge (Exist)	m2	36.00	4,130	2,403	148,680	86,508	235,188
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				3,587,072	460,514	4,047,586
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				3,587,072	460,514	4,047,586
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( Overhead : 15% )	TOTAL COST (Timber Bridge)				4,125,133	529,591	4,654,724
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				4,125,133	529,591	4,654,724

PROV : SUMATERA SELATAN KAB : BANGKA  
 LINK NO : 103 (IIIB-2) LENGTH : 7 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<< COST >>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	55,634	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	61,623	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	81,622	6,704	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	68,984	5,718	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	75,311	6,193	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	95,515	7,839	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	59,900	90,643	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	0.00	61,331	101,196	0	0	0
Superstructure (Concrete;Span 8a;BHSO)	m2	0.00	63,036	110,168	0	0	0
Superstructure (Concrete;Span10a;BHSO)	m2	0.00	68,850	125,030	0	0	0
Superstructure (Concrete;Span15a;BHSO)	m2	0.00	73,924	147,158	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	484,615	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,300,552	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	712,725	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,472,611	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	1,882,835	472,599	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	3,892,798	991,443	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	15,295	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	92,556	70,585	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	9,888	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,081	2,805	0	0	0
Maintenance of Timber Bridge (Exist)	m2	325.00	8,658	2,513	2,813,850	816,725	3,630,575
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,130	2,403	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0









JICA