

APPENDIX

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : Sumatera Selatan

KABUPATEN: Musi Banyuasin

DATA RUAS

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Kasmaran	Pinggap	14	Babat Toman	14	
02	Sukarami	Simpangsari	9	Kota Sekayu	9	1
03	Simpangsari	Tanah Abang	9	Babat Toman	9	2
04	Simpangsari	Bandarjaya	9	Kota Sekayu	9	3
05	Tibingbulang	Kertajaya	8	Kota Sekayu	8	
06	Keluang	Simpang Km108	29	Kota Sekayu	6	4
				Babat Toman	11	
				Sungai Lilin	12	
07	Keluang	Dawas	24	Babat Toman	24	5
08	Sp. Bayat	Desa Bayat	9	Bayung Lencir	9	
09	Sp. Langkap	Desa Langkap		Kota Sekayu	1	
				Sungai Lilin	5	
10	Cinta Manis	Prajen	18	Banyu Asin II	18	6
11	Sp. Teluk Kijing	Desa Tl. Kijing	12	kota Sekayu	12	7
12	Sp. Kr. Waru	Ulak Pace	6			8
13	Sp. Petaling	Desa Petaling	3	Kota Sekayu	3	9
14	Pkl. Balai	Petaling	13	Banyu Asin III	13	10
15	Dalam Desa	Pkl. Balai	8	Banyu Asin III	8	11
16	Sp. Tl. Kelapa	Tl. Kelapa	4	Talang Kelapa	4	
17	Bts. Kodya Plg	Kenten	5			12
18	Sp. Rambutan	Tanjung Kerang	5	Banyu Asin I	5	13
19	Air Balui	Tl. Panai	9			
20	Babat Toman	Sei. Angit	14	Babat Toman	14	14
21	Sp. Ngunang	Tl. Ngunang	3	Babat Toman	3	
22	Kr. Ringin	Pengadang	12	Babat Toman	12	
23	Sp. Kr. Ringin	Ulak Teberau	5	Babat Toman	5	15

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

DATA RUAS

KABUPATEN: Musi Banyuasin

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
24	Bandar Jaya	Keluang	12	Kota Sekayu	1	16
				Babat Toman	11	
25	Sp.Danaucala	Desa D.Cala	11	Kota Sekayu	11	17
26	Tebing Bulang	Jirak Km 11	19	Kota Sekayu	19	18
27	Sp.Alang-Lebar	Alang-alang Lebar	3	Talang Kelapa	3	
28	Sp. Dalam Supat	Sungai Lilin	10	Kota Sekayu	3	
				Sungai Lilin	7	
29	Sp.Ujung Tanjung	Desa Ujung Tanjung	6	Banyu Asin III	6	
30	Sp.Biuku	Desa Biuku	2	Banyu Asin III	2	
31	Sp.Pulau	Desa Pulau	3	Banyu Asin III	3	
32	Satrio	Sedang	9	Banyu Asin III	9	19
33	Air Batu	Sei.Rengit	9	Talang Kelapa	9	20
34	Sp.Berlian	Bom Berlian	3	Banyu Asin III	3	
35	Pangkalan Balai	Lebong	13	Banyu Asin III	13	21
36	Mariana	Prajen	8	Banyu Asin II	8	22
37	Tl.Betutu	Pkl.Benteng	5	Talang Kelapa	5	
38	Sp.Pkl.Panji	Pkl.Panji	2	Banyu Asin III	2	
39	Sp.Limau	Desa Limau	5	Banyu Asin III	5	
40	Sp.Gelebak Dalam	Gelebak dalam	6	Banyu Asin II	6	
41	Sp.Langkan	Desa Langkan	4	Banyu Asin III	4	
42	Sp.Bukit	Desa Bukit	2	Banyu Asin III	2	23
43	Sp.Gajah Mati	Desa Gajah Mati	3	Kota Sekayu	0.5	
				Sungai Lilin	2.5	
44	Sp.B.Banyu Asin	Desa B.Banyu Asin	3	Sungai Lilin	3	
45	Petalang	Tebing Abang	3	Banyu Asin III	3	24
46	Sukajadi	Tl.Betutu	7	Talang Kelapa	7	
47	Babat Banyu Asin	Desa Lais	11	Kota Sekayu	10	25
				Sungai Lilin	1	

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 : Sumatra Selatan

KABUPATEN: Musi Banjuasin

DATA RUAS

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
48	Pangkalan Balai	Sri Bandung	14	Banyu Asin III	14	
49	Jalan dalam Kota Sekayu		21			26
50	Sp. Muara Teladan	Desa Teladan	4	Kota Sekayu	4	27
51	Sekayu	Sp. Muara Teladan	10	Kota Sekayu	10	28
52	Sp. Muara Teladan	Supat	15	Kota Sekayu	15	29
53	Simpang Epil	Desa Epil	3	Kota Sekayu	3	
54	Dalam Perkebunan Nes I	Betung	47	Kota Sekayu Banyu Asin III	38 9	
55	T. Kerang	Kebon Sahang	17	Banyu Asin I	17	
56	Km. 31	Tl. Suak Luar	7	Banyu Asin III	7	
57	Tl. Rajak	Desa Terentang	13	Banyu Asin III	13	
58	Seberang Mangunjaya	Seberang B. Toman	8			
59	Muara Padang	Sei Ibul	12			
60	Pkl. Panai	Transmigrasi	7			
61	Sungai Dua	Menten	3	Banyu Asin I	3	30
62	Sungai Rengit	Kuala Puntian	22	Talang Kelapa	22	
63	Sekayu	Tl. Care	14			31
64	Jl. Sosial	Km. 5 Plg	2			
65	Sp. Tanggaro	Ds. Tanggaro	9	Babat Toman	9	
66	Reban Gajah	Rimba Balai	8	Banyu Asin III	8	
67	Tanah Abang	Teluk Saut	17	Babat Toman	17	
68	Balai Makmur	Mata Merah	6	Talang Kelapa	6	
69	Sp. Km. 11	Tl. Piase	8	Kota Sekayu	8	
70	Jalan Dalam	Desa. B. Toman	10			
71	Sp. Dalam Supat	Supat	3	Kota Sekayu	3	

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

DATA RUAS

KABUPATEN:Musi Banyuasin

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
72	Serong	Semuntul	17	Talang Kelapa	17	32
73	BPP. Sumbawa	PKL. Balam	14			
74	Rt. Bayur	Tn. Abang	11			
75	Suka Makmur	Air Batu	5	Talang Kelapa	5	
76	Pulau	Punuguan	3	Kota Sekayu	3	
77	Seberang Bumiayu	Daerah Transmigrasi. M. JW	12			
78	DS. Ulak Pace	TL. B. Kuring	12			
79	Setrio	Bintang	2			
80	Sp. Sukaraja	Sukaraja	4	Banyu Asin III	4	
81	Marina	Sako Tigo	9	Banyu Asin II	9	

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

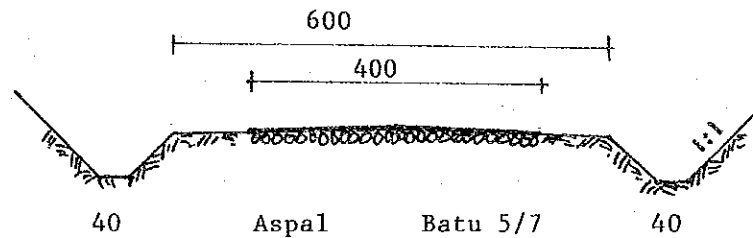
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?

Kriteria Perencanaan yang dipakai pada program penanganan jalan Kabupaten, baik untuk jalan lama maupun pembangunan baru.

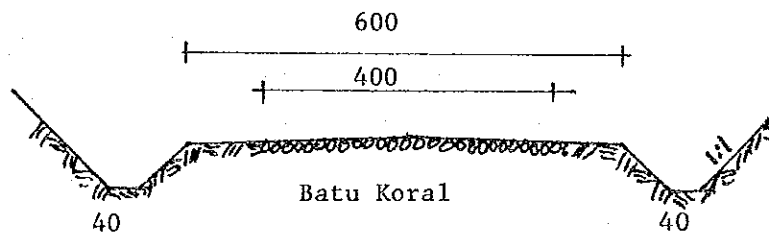
Please draw the Typical Cross Section of the Kabupaten Road.

Buat gambar dan penjelasan dari: Typical cross section yang dipakai pada program penanganan jalan selama ini (baik untuk jalan lama, maupun pembangunan baru)

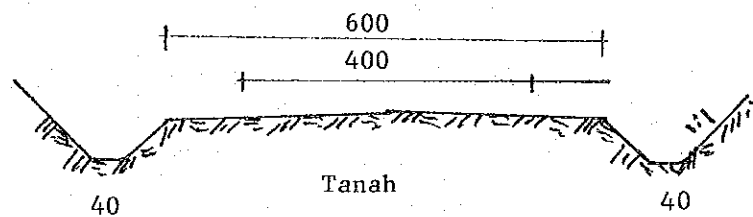
TYPICAL CROSS SECTION.



Jalan Aspal



Jalan Makadam



Jalan Tanah

ROADS CONSTRUCTED OR IMPROVED IN 1980/1981Biaya konstruksi penangananjalan dan jembatan Kabupaten thn. 1980/1981

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Bantuan Kabupaten					
13	Sp. Petaling-Petaling	4	Gravel	3	14,375	
		4	Timber	18 m	-	
15	Sp. PKL Balai-Balai	4	Gravel/Awcas	3,68	14,520.75	
		-	-	-	-	
49	Sekayu - MA. Teladan	4	Gravel	2,2	34,098	
		4	Timber	-	-	
50	Sekayu - MA. Teladan	4	Asphalt seal	2	22,766	
		-	-	-	-	
36	Mariana - Prajen	4	Asphalt Seal	6	76,565.7	
		-	-	-	-	
37	Tl. Betutu - Pkl. Benteng	4	Gravel/Awcas	12	28,000	
		4	-	12 m	-	
35	Pkl. Balai - Lebong	4	Gravel	6	29,500	
		4	Timber	8 m	-	
49	Dalam Kota Sekayu	-	-	-	2,374	Pemb. buis Beton
		-	-	-	-	
49	Dalam Kota Sekayu	-	-	106 m	3,979	Pembuatan Parit
		-	-	-	-	
49	Dalam Kota Sekayu	4	2	7.22	15,982	
		-	-	-	-	
17	Palembang - Kenten	4	2	4.2	66,230	
		-	-	-	-	

* 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

KABUPATEN: Musi Banyuasin LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1981/1982

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

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Bantuan Kabupaten					
33	Air Batu - Sei Rengit	4 m	Gravel/Awcas	9.5 km	54,905	
49	Dalam Kota Sekayu	4 m	Asphalt Seal	2.173 km	21,414	
3	Sp. Sari - Tanah Ababg	-	-	9 km	50,626	
54	Vilage I Ness Betung Peldas	-	-	9.6 km	33,715	
31	Dalam Dusun Pulau	4 m	Asphalt Seal	800 m	18,295	
49	Ujung Jl.Koi Wahid Usin -Kayu Ara	4 m	Timber	2.768	73,932	
49	Ujung Jl.Kol Wahid Udin -Jl.Prop.Sukarami	16 m	-	2.75 km	65,915	
67	Tanah Abang -Talang Leban - Saut	4 m	Timber	16.2 km 34 m	63,655	
15	Dalam Dusun Plk Balai	4 m	Asphalt Seal	4.8 km	57,365	
13	Sp. Kerondong - Ketaling	4 m	Gravel	12.5 km	49,754	
28	Jemb.Sei Pungur Teluk Kemang	14 m	Timber	24 m	4,157	
81	Dusun Mainan Sako	-	-	9.5 km	25,276	
49	Pendalaman Parit Permanen Kp 7 Sekayu	-	-	36 m	400	
49	Reneb Jalan Aspal Dalam Ds. Sekayu	4 m	Asphalt Seal	5.2 km	30,296	

* 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

KABUPATEN: Musi Banyuasin LOCATION AND COSTS OF THE KABUPATEN

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	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan	(KM)		
	Inpres Bantuan Kabupaten					
48	Pkl Balai - Tj. Menang	4	Gravel/Awcas	14 km	64,333	
		4	Timber	12 m	-	
68	Balai Makmur-Mata Merah	4	Gravel	5.8 km	55,560	
		-	-	-	-	
14	Lb. Lancang - Pengumbuk	4	Gravel/Awcas	3 km	68,004	
		4	Timber	38 m	-	
50	Sekayu - MA Teladan	4	Asphalt Seal	3 km	74,865	
		-	-	-	-	
51	Mariana - Prajen	4	Asphalt Seal	0.42 km	15,630	
		-	-	-	-	
34	Boom Berlian	-	-	-	17,150	Dermaga - Boom Berlian
		-	-	-	-	
20	Babat - Sei Angit	4	Gravel	13 km	71,295	
		4	Timber	12 m	-	
49	Dalam Kota Sekayu	4	Gravel	0.28 km	20,000	
		4	-	10 m	-	
49	Dalam Kota Sekayu	4	Asphalt Seal	5.5 km	69,500	
		-	-	-	-	
49	Dalam Kota Sekayu	4	Gravel	0.85 km	29,750	
		-	-	-	-	
49	Dalam Kota Sekayu	4	Gravel	0.85 km	43,746	
		4	-	12 m	-	
49	Dalam Kota Sekayu	4	Asphalt Seal	1.618 km	36,200	
		-	-	-	-	
23	Sp Napal - Ulak Teberau	4	Gravel/Awcas	4.05 km	73,399	
		4	Timber	10 m	-	
50	Sekayu - MA Teladan	-	-	-	9,795	
		4	-	24 m	-	
64	Jl. Sosial - Km V	4	2	1.53 km	11,924	
		-	-	-	-	
50	Sekayu - MA Teladan	-	-	-	3,029.7	
		4	Iron	20 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

KABUPATEN: Musi Banyuasin LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1983/1984

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1983/1984

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Bantuan Kabupaten					
50	Sekayu - MA Teladan	4	Asphalt Seal	4 km	98,574	
14	Lb. Lancang-Pengumbuk	4	Asphalt Seal	6 km	86,285	
49	Dalam Kota Sekayu	4	Gravel	0.85 km	34,716	
50	Sekayu - MA Teladan	4	Gravel/Awcac	0.23 km	18,130	
5	Tb. Bulang - Kertajaya	4	Gravel	9 km	93,608	
		4		12 m		
26	Tb. Bulang - Jirak	4	Gravel	18.15 km	99,854	
		4	Timber	16 m		
79	Setrio - Bt. Campak	4	Gravel	2 km	10,955	
		-	-	-		
7	Sepata - Lawes	-	-	17.4 km	48,859	
		4	Timber	8 m		
12	Sp. Waru - Ulak Pace	4	Gravel	6 km	81,007	
		-	-	-		
49	Jl. Dalam Kota Sekayu	-	-	-	7,089	Pembetulan Parit
		-	-	220 m		
49	Jl. Dalam Kota Sekayu	-	-	-	5,398	Rehab - Parit
		-	-	249 m		
15	Dalam Desa Pkl. Balai	4	Gravel	1.15 km	19,630	
		-	-	-		
16	Sp. Tl. Kelapa-Tl. Kelapa	4	Gravel	3.5 km	33,711	
		4	Timber	5 m		
34	Sp. Berlian - Boom Berlian	-	-	-	13,048	
		3	-	40 m		
49	Dalam Kota Sekayu	4	Asphalt Seal	2.8 km	22,165	
		-	-	-		
40	Sp. Gelebak-Gelebak Dalam	-	-	1 km	18,219	
		-	-	-		

* 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	L O C A T I O N From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTII Panjang	COSTS Harga (Rp 10 ⁶)	REMARKS Keterang- an
		Lebar Jembatan	Type Jembatan	(KM)		
	Inpres Bantuan Kabupaten					
-	RT Bayun	-	-	-	16,626	Rehab - Pengairan
28	Supat Sp. III - Lilin	4	Timber	4.7 km 24 m	13,000	
70	Dalam Ds. Babat	4	Asphalt Seal	3.363 km	40,444	
52	MA Teladan - Transmigrasi	4	Gravel/Awcas	18.7 km	34,104	
65	Sp. Tanggaro - Tanggaro	4	Gravel	6.6 km	47,655	
61	Sei Dua - Menten	4	Timber	45	25,700	
53	Dalam Desa Epil - Epil	4	Asphalt Seal		48,999	
71	Jalan Dalam Desa - Supat	4	Gravel	2 km	29,000	
72	Serong - Semuntul	4	Timber	4 m		
50	Sekayu - Desa Teladan	4	Gravel/Awcas	17.5 km	40,350	
49	Jl. Dalam Kota Sekayu	4	Timber	6 m		
29	Sekayu - Desa Teladan	4	Asphalt Seal	2 km	37,681	
14	Jl. Dalam Kota Sekayu	4	Asphalt Seal	2.2 km	32,350	
29	Sp Ujung Tanjung-Ujung Tanjung	4	Gravel	7.8 km	822	
14	Lb. Lencang-Pengumbuk	4	-	-	82,350	
14	Lb. Lencang-Pengumbuk	4	Asphalt Seal	6 km	85,300	
-	Tersebar	4	2	-	100,270	SWA Kelola

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

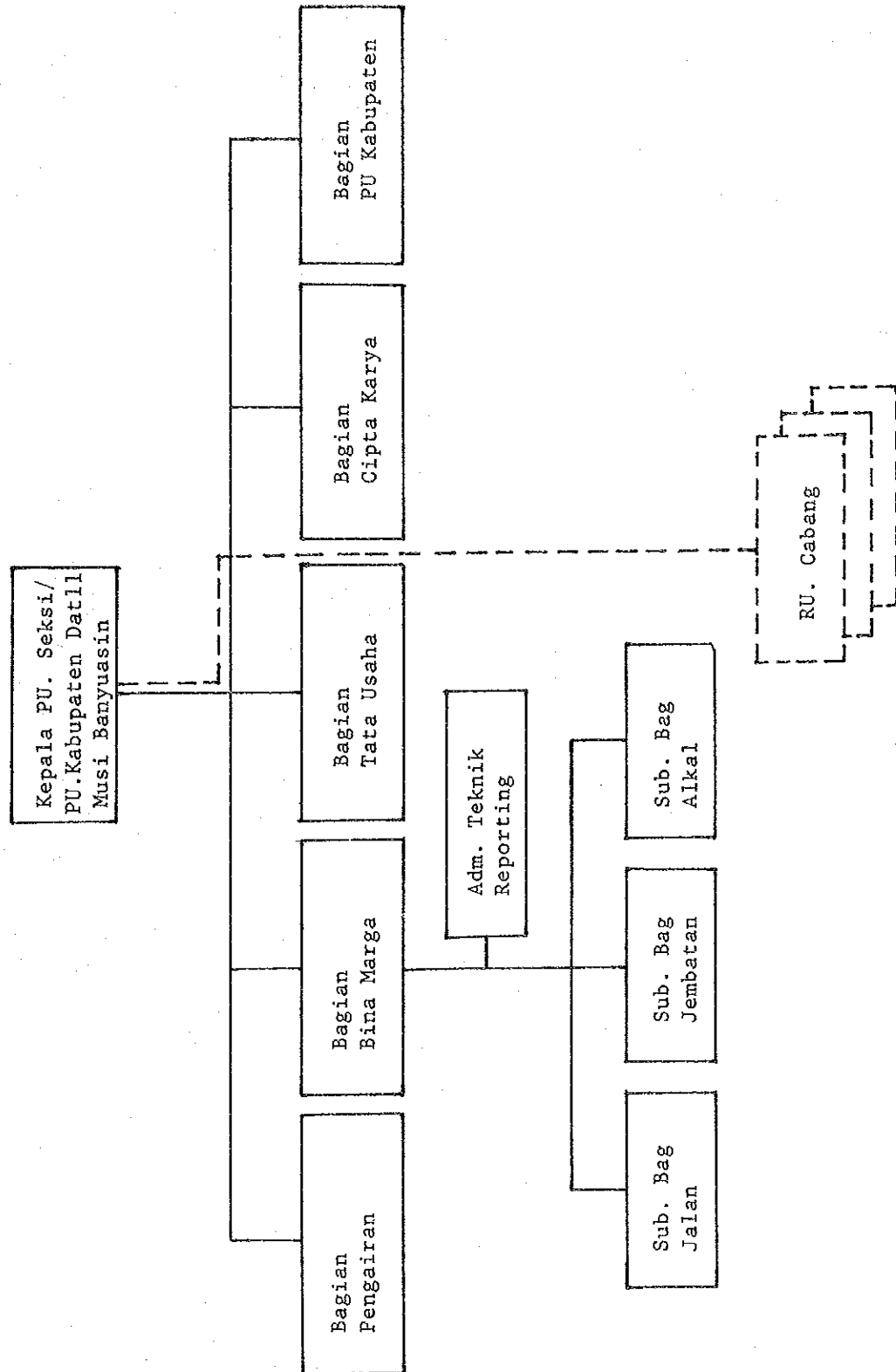
1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

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.



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATENTenaga Dinas PUK yang adaPROPINSI: Sumatra SelatanKABUPATEN: Musi Banyuasin

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

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUK

PROPINSI : Sumatra Selatan

KABUPATEN: Musi Banyuasin

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Di Sekayu	10.000	1	Persediaan tanah

PROPINSI: Sumatra Selatan

E-07

KABUPATEN: Musi Banyuasin

LAND ACQUISITION COST

Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	2,000,-	
VILLAGE / desa	M2	1,500,-	
RICE FIELD/sawah	M2	750,-	
DRY FIELD/ladang	M2	1,250,-	
MIX CROPS/panen	M2	1,250,-	
FOREST/hutan	M2	500,-	
SWAMP / rawa	M2	300,-	
OTHERS / lain-lain	M2	300,-	

PROPINSI: Sumatera Selatan

E-08

KABUPATEN: Musi Banyuasin

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
4	B2	150.000.000		
11	C1	75.000.000		
16	C2	30.000.000		
19	C3	15.000.000		

NOTE: DATI II

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

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

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDIT TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Type	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							
Motor Grader	MG.3.H	1980	1	-	1	-	-
Tyre Roller	TS.7409	1980	1	-	1	-	-
Steel Wheel Roller							
Vibration Roller							
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer							
Stone Crusher							
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer	ES-60-314	1984	1	-	1		
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper							
Pile Driver							
Leg Drill							
Hand Hammer							
Farm Tractor							
Dump Truck	V.22	1980	2	1	3	-	-
Water Tank Truck							
Fuel Tank Truck	Kijang	1983	1	-	1		
Pick Up	T.120	1980	1	-	1	-	-
Jeep							
Motorcycle							
Generator							
Water Pump							
Others							

Appendix A-3

CONSTRUCTION AND MAINTENANCE COST FOR PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN
 LINK NO : 51 (IIB-1) LENGTH : 10 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 ²	0.0	157	91	0	0	0	
Subgrade Preparation	m ²	6000.0	20	11	120,000	66,000	186,000	
Normal Fill	m ³	0.0	1,610	860	0	0	0	
Fill in Swamp	m ³	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m ³	1344.0	943	521	1,267,392	700,224	1,967,616	
Cement Stabilizing	m ³	1820.0	10,621	10,436	19,330,220	18,993,520	38,323,740	
Cement Stabilizing	m ³	280.0	10,621	10,436	2,973,880	2,922,080	5,895,960	
Shoulder	m ²	20000.0	282	145	5,640,000	2,900,000	8,540,000	
Asphalt Patching	m ²	1777.0	8,505	1,123	15,113,385	1,995,571	17,108,956	
Surface Dressing (Single)	m ²	40000.0	962	665	38,480,000	26,600,000	65,080,000	
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0	
Earth Drain	m	0.0	896	118	0	0	0	
Earth Drain in Swamp (by machine)	m ³	0.0	1,152	473	0	0	0	
Pipe Culvert 80cm	m	8.0	55,663	47,456	445,304	379,648	824,952	
Masonry Culvert (80x80cm)	m	0.0	94,551	36,400	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	3.2	68,781	10,055	217,920	32,176	252,275	
Gabion Protection	m ³	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					83,590,280	54,589,219	138,179,499	
Overhead (15%)					12,538,542	8,188,382	20,726,924	
					TOTAL COST	96,128,822	62,777,601	158,906,423

Manual routine maintenance of road	Km	10.0	146,752	7,248	1,467,520	72,480	1,540,000
Routine maintenance of asphalt road	Km	10.0	850,500	112,300	8,505,000	1,123,000	9,628,000
				Sub Total	9,972,520	1,195,480	11,168,000
Maintenance of Timber Bridge (New)	m ²	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,739	2,402	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,147	2,400	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	15,890,642
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	28,005,810
Maintenance Rate without Bridge		(%)	:	7.03
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN
 LINK NO : 47 (IIIB-1) LENGTH : 11 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 ²	0.0	157	91	0	0	0
Subgrade Preparation	m ²	0.0	20	11	0	0	0
Normal Fill	m ³	0.0	1,610	860	0	0	0
Fill in Swamp	m ³	0.0	6,575	266	0	0	0
Normal Excavation to Spoil	m ³	0.0	943	521	0	0	0
Cement Stabilizing	m ³	0.0	10,621	10,436	0	0	0
Cement Stabilizing	m ³	0.0	10,621	10,436	0	0	0
Shoulder	m ²	33000.0	282	145	9,306,000	4,785,000	14,091,000
Asphalt Patching	m ²	1286.0	8,505	1,123	10,937,430	1,444,178	12,381,608
Surface Dressing (Single)	m ²	44000.0	962	665	42,328,000	29,260,000	71,588,000
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0
Earth Drain	m	2640.0	896	118	2,365,440	311,520	2,676,960
Earth Drain in Swamp (by machine)	m ³	0.0	1,152	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	55,663	47,456	0	0	0
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	68,781	10,055	0	0	0
Gabion Protection	m ³	0.0	31,129	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		64,936,870	35,800,698	100,737,568
Overhead (15%)					9,740,530	5,370,104	15,110,634
			TOTAL COST		74,677,400	41,170,802	115,848,202

Manual routine maintenance of road	Km	11.0	146,752	7,248	1,614,272	79,728	1,694,000
Routine maintenance of asphalt road	Km	11.0	850,500	112,300	9,355,500	1,235,300	10,590,800
			Sub Total		10,969,772	1,315,028	12,284,800
Maintenance of Timber Bridge (New)	m ²	0.0	0,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	12.0	7,739	2,402	92,868	28,824	121,692
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,147	2,400	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,531,655
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	0
Maintenance Rate without Bridge		(%)	:	10.60
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 24 (11IC) LENGTH : 12 Km

UPGRADE : 8.0m 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	157	91	0	0	0	
Subgrade Preparation	m2	96000.0	20	11	1,920,000	1,056,000	2,976,000	
Normal Fill	m3	0.0	1,610	860	0	0	0	
Fill in Swamp	m3	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m3	38.0	943	521	35,834	19,798	55,632	
Cement Stabilizing	m3	7680.0	10,621	10,436	81,569,280	80,148,480	161,717,760	
Cement Stabilizing	m3	0.0	10,621	10,436	0	0	0	
Shoulder	m2	48000.0	282	145	13,536,000	6,960,000	20,496,000	
Asphalt Patching	m2	0.0	8,505	1,123	0	0	0	
Surface Dressing (Single)	m2	0.0	962	685	0	0	0	
Surface Dressing (Double)	m2	0.0	1,432	1,044	0	0	0	
Earth Drain	m	0.0	896	110	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,152	473	0	0	0	
Pipe Culvert 80x80cm	m	8.0	55,663	47,456	445,304	379,648	824,952	
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	3.2	68,781	10,055	220,099	32,176	252,275	
Gabion Protection	m3	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					97,726,517	88,596,102	186,322,619	
Overhead (15%)					14,658,977	13,289,415	27,948,392	
					TOTAL COST	112,385,494	101,885,517	214,271,011

Manual routine maintenance of road	Km	12.0	146,752	7,248	1,761,024	86,976	1,848,000
Routine maintenance of gravel road	Km	12.0	845,224	42,601	10,142,688	511,212	10,653,900
			Sub Total		11,903,712	598,188	12,501,900
Maintenance of Timber Bridge (New)	m2	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,739	2,402	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,147	2,400	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,855,918
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	64,687,104
Maintenance Rate without Bridge (%)	:	5.83
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 2 (IIIC) 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	m ²	9000.0	157	91	1,413,000	819,000	2,232,000	
Subgrade Preparation	m ²	54000.0	20	11	1,080,000	594,000	1,674,000	
Normal Fill	m ³	0.0	1,610	860	0	0	0	
Fill in Swamp	m ³	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m ³	598.0	943	521	563,914	311,558	875,472	
Cement Stabilizing	m ³	5760.0	10,621	10,436	61,176,960	60,111,360	121,288,320	
Cement Stabilizing	m ³	0.0	10,621	10,436	0	0	0	
Shoulder	m ²	18000.0	282	145	5,076,000	2,610,000	7,686,000	
Asphalt Patching	m ²	0.0	8,505	1,123	0	0	0	
Surface Dressing (Single)	m ²	0.0	962	665	0	0	0	
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0	
Earth Drain	m	7100.0	896	118	6,361,600	837,800	7,199,400	
Earth Drain in Swamp (by machine)	m ³	0.0	1,152	473	0	0	0	
Pipe Culvert D80cm	m	24.0	55,663	47,456	1,335,912	1,130,944	2,474,856	
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	3.2	68,781	10,055	220,099	32,176	252,275	
Gabion Protection	m ³	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						77,227,485	66,454,838	143,682,323
Overhead (15%)						11,584,122	9,968,225	21,552,347
					TOTAL COST	88,811,607	76,423,063	165,234,670

Manual routine maintenance of road	Km	9.0	146,752	7,248	1,320,768	65,232	1,386,000
Routine maintenance of gravel road	Km	9.0	845,224	42,601	7,607,016	383,409	7,990,425
			Sub Total		8,927,784	448,641	9,376,425
Maintenance of Timber Bridge (New)	m ²	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	374.3	7,739	2,402	2,896,320	898,948	3,795,268
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,147	2,400	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	18,359,408
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	48,515,328
Maintenance Rate without Bridge (%)	:	5.67
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN
 LINK NO : 6 (IIIB-1) LENGTH : 29 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 ²	0.0	157	91	0	0	0
Subgrade Preparation	m ²	232000.0	20	11	4,640,000	2,552,000	7,192,000
Normal Fill	m ³	0.0	1,610	860	0	0	0
Fill in Swamp	m ³	0.0	6,575	266	0	0	0
Normal Excavation to Spoil	m ³	1820.0	943	521	1,716,260	948,220	2,664,480
Cement Stabilizing	m ³	16240.0	10,621	10,436	172,405,040	169,480,640	341,965,680
Cement Stabilizing	m ³	8120.0	10,621	10,436	86,242,520	84,740,320	170,982,840
Shoulder	m ²	116000.0	282	145	32,712,000	16,820,000	49,532,000
Asphalt Patching	m ²	0.0	8,505	1,123	0	0	0
Surface Dressing (Single)	m ²	116000.0	962	665	111,592,000	77,140,000	188,732,000
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0
Earth Drain	m	7500.0	896	118	6,720,000	885,000	7,605,000
Earth Drain in Swamp (by machine)	m ³	0.0	1,152	473	0	0	0
Pipe Culvert Ø80cm	m	24.0	55,663	47,456	1,335,912	1,138,944	2,474,856
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	9.6	68,781	10,055	660,297	96,528	756,825
Gabion Protection	m ³	0.0	31,129	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	418,104,029	353,801,652	771,905,681
Overhead (15%)					62,715,604	53,070,247	115,785,851
				TOTAL COST	480,819,633	406,871,899	887,691,532

Manual routine maintenance of road	Km	29.0	146,752	7,240	4,255,808	210,192	4,466,000
Routine maintenance of asphalt road	Km	29.0	850,500	112,300	24,664,500	3,256,700	27,921,200
			Sub Total		28,920,308	3,466,892	32,387,200
Maintenance of Timber Bridge (New)	m ²	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,739	2,402	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	310.0	4,147	2,400	1,285,570	744,000	2,029,570

Earthwork & Pavement Unit Cost (Rp/Km)	:	30,610,053
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	273,572,544
Maintenance Rate without Bridge (Z1)	:	3.65
New Bridge Cost Rate (Z2)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 4 (IIC) LENGTH : 9 Km

UPGRADE : 7.0m 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	157	91	0	0	0	
Subgrade Preparation	m2	63000.0	20	11	1,260,000	693,000	1,953,000	
Normal Fill	m3	0.0	1,610	860	0	0	0	
Fill in Swamp	m3	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m3	46.0	943	521	43,378	23,966	67,344	
Cement Stabilizing	m3	5760.0	10,621	10,436	61,176,960	60,111,360	121,288,320	
Cement Stabilizing	m3	0.0	10,621	10,436	0	0	0	
Shoulder	m2	27000.0	282	145	7,614,000	3,915,000	11,529,000	
Asphalt Patching	m2	0.0	8,505	1,123	0	0	0	
Surface Dressing (Single)	m2	0.0	962	665	0	0	0	
Surface Dressing (Doublet)	m2	0.0	1,432	1,044	0	0	0	
Earth Drain	m	1900.0	896	118	1,702,400	224,200	1,926,600	
Earth Drain in Swamp (by machine)	m3	0.0	1,152	473	0	0	0	
Pipe Culvert 80cm	m	12.0	55,663	47,456	667,956	569,472	1,237,428	
Masonry Culvert (80x80cm)	m	0.0	94,554	36,480	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	68,781	10,055	0	0	0	
Gabion Protection	m3	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	72,464,694	65,536,998	138,001,692
Overhead (15%)						10,869,704	9,830,549	20,700,253
					TOTAL COST	83,334,398	75,367,547	158,701,945

Manual routine maintenance of road	Ka	9.0	146,752	7,248	1,320,768	65,232	1,386,000
Routine maintenance of gravel road	Ka	9.0	845,224	42,601	7,607,016	383,409	7,990,425
			Sub Total		8,927,784	448,641	9,376,425
Maintenance of Timber Bridge (New)	m2	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	128.0	7,739	2,402	990,592	307,456	1,298,048
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,147	2,400	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	17,633,550
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	48,515,328
Maintenance Rate without Bridge		(%)	:	5.91
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAR : MUSI BANYUASIN
 LINK NO : 55 (IIIB-1) LENGTH : 17 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	157	91	0	0	0	
Subgrade Preparation	m2	102000.0	20	11	2,040,000	1,122,000	3,162,000	
Normal Fill	m3	0.0	1,610	860	0	0	0	
Fill in Swamp	m3	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m3	224.0	943	521	211,232	116,704	327,936	
Cement Stabilizing	m3	9520.0	10,621	10,436	101,111,920	99,350,720	200,462,640	
Cement Stabilizing	m3	4760.0	10,621	10,436	50,555,960	49,675,360	100,231,320	
Shoulder	m2	34000.0	282	145	9,588,000	4,930,000	14,518,000	
Asphalt Patching	m2	0.0	8,505	1,123	0	0	0	
Surface Dressing (Single)	m2	68000.0	962	665	65,416,000	45,220,000	110,636,000	
Surface Dressing (Double)	m2	0.0	1,432	1,044	0	0	0	
Earth Drain	m	3500.0	896	118	3,136,000	413,000	3,549,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,152	473	0	0	0	
Pipe Culvert 80cm	m	0.0	55,663	47,456	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	68,781	10,055	0	0	0	
Gabion Protection	m3	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	37,354,556	2,945,945	40,300,501	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	269,413,668	203,773,729	473,187,397
Overhead (ISI)						40,412,050	30,566,059	70,978,109
					TOTAL COST	309,825,718	234,339,788	544,165,506

Manual routine maintenance of road	Km	17.0	146,752	7,248	2,494,784	123,216	2,618,000	
Routine maintenance of asphalt road	Km	17.0	850,500	112,300	14,458,500	1,909,100	16,367,600	
					Sub Total	16,953,284	2,032,316	18,985,600
Maintenance of Timber Bridge (New)	m2	440.0	8,299	1,120	3,651,560	492,800	4,144,360	
Maintenance of Concrete Bridge (New)	m2	0.0	2,787	2,792	0	0	0	
Maintenance of Timber Bridge (Exist)	m2	224.0	7,739	2,402	1,733,536	538,048	2,271,584	
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,147	2,400	0	0	0	

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	29,283,525
Timber Bridge	Unit Cost	(Rp/m2)	:	105,331
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	160,370,112
Maintenance Rate without Bridge		(%)	:	3.81
New Bridge Cost Rate		(%)	:	8.52

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN
 LINK NO : 54 (IIIB-1) LENGTH : 47 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 ²	0.0	157	91	0	0	0	
Subgrade Preparation	m ²	156000.0	20	11	3,120,000	1,716,000	4,836,000	
Normal Fill	m ³	0.0	1,610	860	0	0	0	
Fill in Swamp	m ³	0.0	6,575	266	0	0	0	
Normal Excavation to Spoil	m ³	592.0	943	521	558,256	308,432	866,688	
Cement Stabilizing	m ³	14560.0	10,621	10,436	154,641,760	151,948,160	306,589,920	
Cement Stabilizing	m ³	7280.0	10,621	10,436	77,320,880	75,974,080	153,294,960	
Shoulder	m ²	94000.0	282	145	26,508,000	13,630,000	40,138,000	
Asphalt Patching	m ²	350.0	8,505	1,123	2,976,750	393,050	3,369,800	
Surface Dressing (Single)	m ²	188000.0	962	665	180,856,000	125,020,000	305,876,000	
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0	
Earth Drain	m	9900.0	896	118	8,870,400	1,168,200	10,038,600	
Earth Drain in Swamp (by machine)	m ³	0.0	1,152	473	0	0	0	
Pipe Culvert 80cm	m	96.0	55,663	47,456	5,343,648	4,555,776	9,899,424	
Masonry Culvert 180x80cm	m	0.0	94,551	36,400	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	16.0	68,781	10,055	1,119,696	160,880	1,280,576	
Gabion Protection	m ³	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	461,296,190	374,874,578	836,170,768
Overhead (15%)						69,194,428	56,231,186	125,425,614
					TOTAL COST	530,490,618	431,105,764	961,596,382

Manual routine maintenance of road	Km	47.0	146,752	7,248	6,897,344	340,656	7,238,000
Routine maintenance of asphalt road	Km	47.0	850,500	112,300	39,973,500	5,278,100	45,251,600
			Sub Total		46,870,844	5,618,756	52,489,600
Maintenance of Timber Bridge (New)	m ²	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	92.0	7,739	2,402	711,988	220,984	932,972
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,147	2,400	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Ka)	:	20,459,498
Timber Bridge Unit Cost	(Rp/m ²)	:	
Concrete Bridge Unit Cost	(Rp/m ²)	:	
Survived Value	(Rp)	:	245,271,936
Maintenance Rate without Bridge	(%)	:	5.46
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 52 (IIIB-1) LENGTH : 15 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 ²	0.0	157	91	0	0	0	
Subgrade Preparation	m ²	105000.0	20	11	2,100,000	1,155,000	3,255,000	
Normal Fill	m ³	0.0	1,610	860	0	0	0	
Fill in Swamp	m ³	810.0	6,575	266	5,325,750	215,460	5,541,210	
Normal Excavation to Spoil	m ³	1034.0	943	521	975,062	538,714	1,513,776	
Cement Stabilizing	m ³	8400.0	10,621	10,436	89,216,400	87,662,400	176,878,800	
Cement Stabilizing	m ³	4200.0	10,621	10,436	44,608,200	43,831,200	88,439,400	
Shoulder	m ²	45000.0	282	145	12,690,000	6,525,000	19,215,000	
Asphalt Patching	m ²	0.0	8,505	1,123	0	0	0	
Surface Dressing (Single)	m ²	60000.0	962	665	57,720,000	39,900,000	97,620,000	
Surface Dressing (Double)	m ²	0.0	1,432	1,044	0	0	0	
Earth Drain	m	1240.0	896	118	1,111,040	146,320	1,257,360	
Earth Drain in Swamp (by machine)	m ³	3600.0	1,152	473	4,147,200	1,702,800	5,850,000	
Pipe Culvert Ø80cm	m	0.0	55,663	47,456	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	94,551	36,480	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	12,601	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	88,781	10,055	0	0	0	
Gabion Protection	m ³	0.0	31,129	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	217,893,652	181,676,894	399,570,546
Overhead (15%)						32,684,047	27,251,534	59,935,581
					TOTAL COST	250,577,699	208,928,428	459,506,127

Manual routine maintenance of road	Km	15.0	146,752	7,248	2,201,280	108,720	2,310,000
Routine maintenance of asphalt road	Km	15.0	850,500	112,300	12,757,500	1,684,500	14,442,000
			Sub Total		14,958,780	1,793,220	16,752,000
Maintenance of Timber Bridge (New)	m ²	0.0	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	276.0	7,739	2,402	2,135,964	662,952	2,798,916
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,147	2,400	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	30,633,742
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	141,503,040
Maintenance Rate without Bridge		(%)	:	3.65
New Bridge Cost Rate		(%)	:	

Appendix A-4

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

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer	hr	502.2	1006.2	1060.2	1165.5	984.9	4719.0
Bulldozer/Ripper	hr	179.1	298.0	545.5	442.1	534.9	1999.6
Swamp Bulldozer	hr	0.0	0.0	0.0	13.5	13.5	27.0
Motor Grader	hr	1000.0	2064.3	2431.3	2476.3	2298.9	10270.8
Road Stabilizer	hr	502.2	1006.2	1060.2	1165.5	984.9	4719.0
Hand-guide Vib. Roller	hr	36.2	70.5	339.6	81.8	211.2	739.3
Tire Roller	hr	170.0	709.9	996.6	1274.9	1148.3	4299.7
Vibratory Roller (D&T)	hr	943.6	1925.1	2192.5	2290.1	2071.1	9422.4
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	135.0	135.0	270.0
Wheel Loader	hr	932.4	1807.3	2135.8	2190.3	2012.2	9078.0
Water Tank Truck	hr	816.7	1633.5	1736.7	1897.6	1620.4	7704.9
Dump Truck	hr	5381.9	10127.7	12593.2	12545.8	12090.6	52739.2
Flat Bed Truck with Crane	hr	128.7	278.0	47.8	49.7	13.7	517.9
Flat Bed Truck	hr	970.2	2382.5	2806.5	3298.3	2861.4	12318.9
Concrete Mixer	hr	6.0	7.2	16.3	15.4	5.3	50.2
Water Pump	hr	5.3	6.5	13.7	13.3	4.3	43.1
Concrete Vibrator	hr	4.1	5.3	8.5	9.2	2.2	29.3
Asphalt Sprayer	hr	170.0	709.9	996.6	1274.9	1148.3	4299.7
LABOUR :							
Handur	man day	638.0	1239.8	1198.1	1250.7	1185.3	5511.9
Skilled Labourer	man day	1066.4	2666.1	820.5	819.8	826.7	6199.5
Carpenter	man day	516.0	1202.7	2.8	3.0	0.7	1725.2
Mason	man day	3.2	3.2	13.1	10.4	5.2	35.1
Labourer	man day	5724.9	9501.3	10896.3	11634.6	11310.7	49067.8
Driver	man day	1263.3	2552.7	3044.4	3209.9	2989.1	13059.4
Operator	man day	740.0	1559.4	1926.4	2014.6	1877.4	8117.8
MATERIAL :							
Bitumen	l	34850.0	145644.4	206857.3	261611.1	237144.4	886107.2
Asphalt Oil	l	6970.0	29110.0	40863.3	52275.0	47081.6	176299.9
Kerosene	l	8330.0	34800.4	49118.9	62501.1	56461.2	211211.6
Sand	m ³	10213.9	20657.4	21964.3	24601.7	20858.4	98295.7
Cement	bag	19395.9	38817.9	40946.6	45010.6	37953.6	182124.6
River Stone	m ³	3.2	3.2	13.1	10.4	5.2	35.1
Steel Moulds	set	24.0	31.2	49.6	54.0	13.2	172.0
Timber	m ³	46.7	109.0	0.0	0.0	0.0	155.7
Paint	l	268.0	625.6	0.0	0.0	0.0	893.6
Reinforcing Steel	kg	765.6	995.2	1582.2	1722.6	421.0	5486.6
Tying Wire	kg	6.9	9.0	14.3	15.6	3.8	49.6
BaseCourse Material	m ³	0.0	10.5	282.3	26.2	192.9	511.9
Crushed Stone	m ³	346.8	1429.9	2035.6	2568.0	2319.5	8699.8

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

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
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	731.2	1456.6	1438.3	1440.0	1344.6	6410.7
Road Stabilizer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Hand-guide Vib. Roller	hr	330.0	628.5	867.7	986.2	1372.5	4184.9
Tire Roller	hr	731.2	1456.6	1438.3	1440.0	1344.6	6410.7
Vibratory Roller (D&T)	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	0.0	0.0	0.0	0.0	0.0	0.0
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	660.0	1257.0	1735.5	1972.5	2745.0	8370.0
Flat Bed Truck with Crane	hr	1479.6	3090.7	3385.7	3422.3	3259.5	14637.8
Flat Bed Truck	hr	3134.5	6206.8	6311.4	6395.0	6322.4	28370.1
Concrete Mixer	hr	0.9	1.8	1.7	1.7	1.5	7.6
Water Pump	hr	0.9	1.8	1.7	1.7	1.5	7.6
Concrete Vibrator	hr	0.9	1.8	1.7	1.7	1.5	7.6
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
LABOUR :							
Handur	man day	1080.0	2134.9	2264.8	2367.0	2449.5	10296.2
Skilled Labourer	man day	563.9	1143.5	1393.0	1728.6	1708.7	6537.7
Carpenter	man day	184.0	387.7	436.1	573.8	425.1	2006.7
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	12693.0	25030.1	26505.3	27427.4	28795.6	120451.4
Driver	man day	946.3	1900.0	2060.6	2134.3	2204.3	9245.5
Operator	man day	243.8	485.8	479.6	480.2	448.4	2137.8
MATERIAL :							
Bitumen	l	2970.0	5656.5	7809.7	8876.2	12352.5	37664.9
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	330.0	628.5	867.7	986.2	1372.5	4184.9
Sand	m ³	55.9	106.5	146.3	166.0	230.2	704.9
Cement	bag	13.6	27.3	25.6	25.2	22.7	114.4
River Stone	m ³	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 ³	16.6	35.1	39.5	51.9	38.4	181.5
Paint	l	117.6	248.0	279.5	368.7	272.7	1286.5
Reinforcing Steel	kg	70.1	140.2	131.7	129.6	116.7	588.3
Tying Wire	kg	0.6	1.2	1.1	1.1	1.0	5.0
Base Course Material	m ³	1151.2	2473.5	2915.2	3303.7	3690.0	13533.6
Crushed Stone	m ³	34.5	65.9	89.6	101.4	139.7	431.1

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

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer	hr	502.2	1006.2	1060.2	1165.5	984.9	4719.0
Bulldozer/Ripper	hr	179.1	298.0	545.5	442.1	534.9	1999.6
Swamp Bulldozer	hr	0.0	0.0	0.0	13.5	13.5	27.0
Motor Grader	hr	1731.2	3520.9	3869.6	3916.3	3643.5	16681.5
Road Stabilizer	hr	502.2	1006.2	1060.2	1165.5	984.9	4719.0
Hand-guide Vib. Roller	hr	366.2	699.0	1207.3	1068.0	1583.7	4924.2
Tire Roller	hr	901.2	2166.5	2434.9	2714.9	2492.9	10710.4
Vibratory Roller (D&T)	hr	943.6	1925.1	2192.5	2290.1	2071.1	9422.4
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	135.0	135.0	270.0
Wheel Loader	hr	932.4	1807.3	2135.8	2190.3	2012.2	9078.0
Water Tank Truck	hr	816.7	1633.5	1736.7	1897.6	1620.4	7704.9
Dump Truck	hr	6041.9	11384.7	14328.7	14518.3	14835.6	61109.2
Flat Bed Truck with Crane	hr	1608.3	3368.7	3433.5	3472.0	3273.2	15155.7
Flat Bed Truck	hr	4104.7	8589.3	9117.9	9693.3	9183.8	40689.0
Concrete Mixer	hr	6.9	9.0	18.0	17.1	6.8	57.8
Water Pump	hr	6.2	8.3	15.4	15.0	5.8	50.7
Concrete Vibrator	hr	5.0	7.1	10.2	10.9	3.7	36.9
Asphalt Sprayer	hr	170.0	709.9	996.6	1274.9	1148.3	4299.7
LABOUR :							
Handur	man day	1718.0	3374.7	3462.9	3617.7	3634.8	15808.1
Skilled Labourer	man day	1630.3	3809.6	2213.5	2548.4	2535.4	12737.2
Carpenter	man day	700.0	1590.4	438.9	576.8	425.8	3731.9
Mason	man day	3.2	3.2	13.1	10.4	5.2	35.1
Labourer	man day	18417.9	34531.4	37401.6	39062.0	40106.3	169519.2
Driver	man day	2209.6	4452.7	5105.0	5344.2	5193.4	22304.9
Operator	man day	983.8	2045.2	2406.0	2494.8	2325.8	10255.6
MATERIAL :							
Bitumen	l	37820.0	151300.9	214667.0	270487.3	249496.9	923772.1
Asphalt Oil	l	6970.0	29110.0	40863.3	52275.0	47081.6	176299.9
Kerosene	l	8660.0	35428.9	49986.6	63487.3	57833.7	215396.5
Sand	m ³	10269.8	20763.9	22110.6	24767.7	21088.6	99000.6
Cement	bag	19409.5	38845.2	40972.2	45035.8	37976.3	182239.0
River Stone	m ³	3.2	3.2	13.1	10.4	5.2	35.1
Steel Moulds	set	24.0	31.2	49.6	54.0	13.2	172.0
Tiaber	m ³	63.3	144.1	39.5	51.9	38.4	337.2
Paint	l	385.6	873.6	279.5	368.7	272.7	2180.1
Reinforcing Steel	kg	835.7	1135.4	1713.9	1852.2	537.7	6074.9
Tying Wire	kg	7.5	10.2	15.4	16.7	4.8	54.6
Base Course Material	m ³	1151.2	2484.0	3197.5	3329.9	3882.9	14045.5
Crushed Stone	m ³	381.3	1495.8	2125.2	2669.4	2459.2	9130.9

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

PROV : SUMATERA SELATAN

KAB : MUSI BANYUASIN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		88,320	178,729	213,648	223,903	207,257	911,857
Bulldozer	14258	7,160	14,346	15,116	16,617	14,042	67,281
Bulldozer/Ripper	15567	2,788	4,638	8,491	6,882	8,326	31,125
Swamp Bulldozer	11470	0	0	0	154	154	308
Motor Grader	13292	13,292	27,438	32,316	32,914	30,556	136,516
Road Stabilizer	12534	6,294	12,611	13,288	14,608	12,344	59,145
Hand-guide Vib. Roller	1497	54	105	508	122	316	1,105
Tire Roller	10586	1,799	7,515	10,550	13,496	12,155	45,515
Vibratory Roller (D&T)	6635	6,260	12,773	14,547	15,194	13,741	62,515
Hydraulic Excavator; Wheel	12463	0	0	0	1,682	1,682	3,364
Wheel Loader	16425	15,314	29,684	35,080	35,975	33,050	149,103
Water Tank Truck	3820	3,119	6,239	6,634	7,248	6,189	29,429
Dump Truck	5216	28,071	52,826	65,686	65,438	63,064	275,085
Flat Bed Truck with Crane	4932	634	1,371	235	245	67	2,552
Flat Bed Truck	3250	3,153	7,743	9,121	10,719	9,299	40,035
Concrete Mixer	8338	50	60	135	128	44	417
Water Pump	460	2	2	6	6	1	17
Concrete Vibrator	302	1	1	2	2	0	6
Asphalt Sprayer	1940	329	1,377	1,933	2,473	2,227	8,339
LABOUR :		22,645	43,442	40,275	42,551	40,771	189,684
Mandur	2500	1,595	3,099	2,995	3,126	2,963	13,778
Skilled Labourer	2500	2,666	6,665	2,051	2,049	2,066	15,497
Carpenter	3000	1,548	3,608	8	9	2	5,175
Mason	3000	9	9	39	31	15	103
Labourer	2000	11,449	19,002	21,792	23,269	22,621	98,133
Driver	2500	3,158	6,381	7,611	8,024	7,472	32,646
Operator	3000	2,220	4,678	5,779	6,043	5,632	24,352
MATERIAL :		174,847	414,720	476,412	545,006	477,636	2,088,621
Bitumen	365	12,720	53,160	75,502	95,488	86,557	323,427
Asphalt Oil	300	2,091	8,733	12,258	15,682	14,124	52,888
Kerosene	250	2,082	8,700	12,279	15,625	14,115	52,801
Sand	6000	61,283	123,944	131,785	147,610	125,150	589,772
Cement	4000	77,583	155,271	163,786	180,042	151,814	728,496
River Stone	25000	80	80	327	260	130	877
Steel Houlds	7000	168	218	347	378	92	1,203
Timber	120000	5,604	13,080	0	0	0	18,684
Paint	2500	670	1,564	0	0	0	2,234
Reinforcing Steel	1000	765	995	1,582	1,722	421	5,485
Tying Wire	1500	10	13	21	23	5	72
BaseCourse Material	33000	0	346	9,315	864	6,365	16,890
Crushed Stone	34000	11,791	48,616	69,210	87,312	78,863	295,792

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

PROV : SUMATERA SELATAN

KAB : MUSI BANYUABIN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		38,886	77,706	81,916	83,822	85,110	367,440
Bulldozer	14258	0	0	0	0	0	0
Bulldozer/Ripper	15567	0	0	0	0	0	0
Swamp Bulldozer	11470	0	0	0	0	0	0
Motor Grader	13292	9,719	19,361	19,117	19,140	17,872	85,209
Road Stabilizer	12534	0	0	0	0	0	0
Hand-guide Vib. Roller	1497	494	940	1,298	1,476	2,054	6,262
Tire Roller	10586	7,740	15,419	15,225	15,243	14,233	67,860
Vibratory Roller (D&T)	6635	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12463	0	0	0	0	0	0
Wheel Loader	16425	0	0	0	0	0	0
Water Tank Truck	3820	0	0	0	0	0	0
Dump Truck	5216	3,442	6,556	9,052	10,288	14,317	43,655
Flat Bed Truck with Crane	4932	7,297	15,243	16,698	16,878	16,075	72,191
Flat Bed Truck	3250	10,187	20,172	20,512	20,783	20,547	92,201
Concrete Mixer	8338	7	15	14	14	12	62
Water Pump	460	0	0	0	0	0	0
Concrete Vibrator	302	0	0	0	0	0	0
Asphalt Sprayer	1940	0	0	0	0	0	0
LABOUR :		33,143	65,625	70,051	73,588	76,115	318,522
Mandur	2500	2,700	5,337	5,662	5,917	6,123	25,739
Skilled Labourer	2500	1,409	2,858	3,482	4,321	4,271	16,341
Carpenter	3000	552	1,163	1,308	1,721	1,275	6,019
Mason	3000	0	0	0	0	0	0
Labourer	2000	25,386	50,060	53,010	54,854	57,591	240,901
Driver	2500	2,365	4,750	5,151	5,335	5,510	23,111
Operator	3000	731	1,457	1,438	1,440	1,345	6,411
MATERIAL :		43,073	91,807	108,862	124,329	138,247	506,318
Bitumen	365	1,084	2,064	2,850	3,239	4,508	13,745
Asphalt Oil	300	0	0	0	0	0	0
Kerosene	250	82	157	216	246	343	1,044
Sand	6000	335	639	877	996	1,381	4,228
Cement	4000	54	109	102	100	90	455
River Stone	25000	0	0	0	0	0	0
Steel Kouds	7000	0	0	0	0	0	0
Timber	120000	1,992	4,212	4,740	6,228	4,608	21,780
Paint	2500	294	620	698	921	681	3,214
Reinforcing Steel	1000	70	140	131	129	116	586
Tying Wire	1500	0	1	1	1	1	4
BaseCourse Material	33000	37,989	81,625	96,201	109,022	121,770	446,607
Crushed Stone	34000	1,173	2,240	3,046	3,447	4,749	14,655

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

PROV : SUMATERA SELATAN

KAB : MUSI BANYUASIN

(1000 Rp)

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		127,206	256,435	295,564	307,725	292,367	1,279,297
Bulldozer	14258	7,160	14,346	15,116	16,617	14,042	67,281
Bulldozer/Ripper	15567	2,788	4,638	8,491	6,882	8,326	31,125
Swamp Bulldozer	11470	0	0	0	154	154	308
Motor Grader	13292	23,011	46,799	51,433	52,054	48,428	221,725
Road Stabilizer	12534	6,294	12,611	13,288	14,608	12,344	59,145
Hand-guide Vib. Roller	1497	548	1,045	1,806	1,598	2,370	7,367
Tire Roller	10586	9,539	22,934	25,775	28,739	26,388	113,375
Vibratory Roller (D&T)	6635	6,260	12,773	14,547	15,194	13,741	62,515
Hydraulic Excavator; Wheel	12463	0	0	0	1,682	1,682	3,364
Wheel Loader	16425	15,314	29,684	35,080	35,975	33,050	149,103
Water Tank Truck	3820	3,119	6,239	6,634	7,248	6,189	29,429
Dump Truck	5216	31,513	59,382	74,738	75,726	77,381	318,740
Flat Bed Truck with Crane	4932	7,931	16,614	16,933	17,123	16,142	74,743
Flat Bed Truck	3250	13,340	27,915	29,633	31,502	29,846	132,236
Concrete Mixer	8338	57	75	149	142	56	479
Water Pump	460	2	2	6	6	1	17
Concrete Vibrator	302	1	1	2	2	0	6
Asphalt Sprayer	1940	329	1,377	1,933	2,473	2,227	8,339
LABOUR :		55,788	109,067	110,326	116,139	116,886	508,206
Handur	2500	4,295	8,436	8,657	9,043	9,086	39,517
Skilled Labourer	2500	4,075	9,523	5,533	6,370	6,337	31,838
Carpenter	3000	2,100	4,771	1,316	1,730	1,277	11,194
Mason	3000	9	9	39	31	15	103
Labourer	2000	36,835	69,062	74,802	78,123	80,212	339,034
Driver	2500	5,523	11,131	12,762	13,359	12,982	55,757
Operator	3000	2,951	6,135	7,217	7,483	6,977	30,763
MATERIAL :		217,920	506,527	585,274	669,335	615,883	2,594,939
Bitumen	365	13,804	55,224	78,352	98,727	91,065	337,172
Asphalt Oil	300	2,091	8,733	12,258	15,682	14,124	52,888
Kerosene	250	2,164	8,857	12,495	15,871	14,458	53,845
Sand	6000	61,618	124,583	132,662	148,606	126,531	594,000
Cement	4000	77,637	155,380	163,888	180,142	151,904	728,951
River Stone	25000	80	80	327	260	130	877
Steel Moulds	7000	168	218	347	378	92	1,203
Timber	120000	7,596	17,292	4,740	6,228	4,608	40,464
Paint	2500	964	2,184	698	921	681	5,448
Reinforcing Steel	1000	835	1,135	1,713	1,851	537	6,071
Tying Wire	1500	10	14	22	24	6	76
BaseCourse Material	33000	37,989	81,971	105,516	109,886	128,135	463,497
Crushed Stone	34000	12,964	50,856	72,256	90,759	83,612	310,447

Appendix A-6

QUANTITIES OF BRIDGE ON PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : MUSTI BANYUASIN

LINK NO	BRIDGE NAME	Km	From	((TYPE))		DESIGN LOAD	SPAN CLASS	SPAN LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST)	(NEW)			
2	LAIS	4	SKRM	KK				11.70	3	3.90	4.00	46.80		2	2	111C
	PANDAN DULANG	5	SKRM	KK				47.00	10	4.70	3.75	176.25		9	2	
	TIABUNG	6	SKRM	KK				20.00	4	5.00	4.00	80.00		3	2	
	ELANG	6	SKRM	KK				9.80	2	4.90	4.00	39.20		1	2	
	TALANG GEHURUH	9	SKRM	KK				8.00	2	4.00	4.00	32.00		1	2	
4	SIMP.SARI 1	2	SPSR	KK				6.00	2	3.00	4.00	24.00		1	2	111C
	SIMP.SARI 2	4	SPSR	KK				5.00	1	5.00	4.00	20.00		0	2	
	SIMP.SARI 3	5	SPSR	KK				4.00	1	4.00	4.00	16.00		0	2	
	BANDAR JAYA 3	7	SPSR	KK				6.00	1	6.00	4.00	24.00		0	2	
	BANDAR JAYA 2	7	SPSR	KK				5.00	1	5.00	4.00	20.00		0	2	
	BANDAR JAYA 1	8	SPSR	KK				6.00	2	3.00	4.00	24.00		1	2	
6	ANAK KELUANG	1	KL6	KB				6.00	1	6.00	4.00	24.00		0	2	111B-1
	BK.NIBUNG	14	BNG	RB				16.00	1	16.00	5.50	88.00		0	2	
	PULAU	17	KL6	RB				8.00	1	8.00	4.00	32.00		0	2	
	MUARA LEBUNG	19	KL6	RB				18.00	1	18.00	5.00	90.00		0	2	
	KERI	23	KL6	KB				5.00	1	5.00	4.00	20.00		0	2	
	BURING	26	KL6	KB				4.00	1	4.00	4.00	16.00		0	2	
	SERBUK	26	KL6	KB				4.00	1	4.00	4.00	16.00		0	2	
	SETANGKAI	28	KL6	KB				6.00	1	6.00	4.00	24.00		0	2	
47	N.I	4	BSLS	KK				3.00	1	3.00	4.00	12.00		0	2	111B-1
52	RENGAS	3	MATD	KK				15.00	3	5.00	4.00	60.00		2	2	111B-1
	ELANG	4	MATD	KK				15.00	3	5.00	4.00	60.00		2	2	
	TIUSAN KECIL	4	MATD	KK				4.00	1	4.00	4.00	16.00		0	2	
	BILIK PANJANG	4	MATD	KK				15.00	3	5.00	4.00	60.00		2	2	
	SEMPAGAR	5	MATD	KK				8.00	2	4.00	4.00	32.00		1	2	
	SUPAT	6	MATD	KK				4.00	1	4.00	4.00	16.00		0	2	
	N.I	15	MATD	KK				8.00	2	4.00	4.00	32.00		1	2	
54	NIS 1	1	DLKB	KK				12.00	3	4.00	4.00	48.00		2	2	111B-1
	NIS 2	2	DLKB	KK				6.00	1	6.00	4.00	24.00		0	2	
	BETUNG	36	DLKB	KK				5.00	1	5.00	4.00	20.00		0	2	
55	TJ.KERANG	1	TJKR	--	TM	10T	(C)	110.00	14	7.86	4.00	0.00	440.00	13	2	111B-1
	SEHETOK 1	1	TJKR	KK				10.00	3	3.33	4.00	40.00		2	2	
	SEHETOK 2	2	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	MAKANAN	3	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	TJ.HARAPAN	4	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	TJ.HARAPAN 2	4	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	PLAJU	5	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	UJUNG DUSUN	7	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	SENYAH	11	TJKR	KK				4.00	1	4.00	4.00	16.00		0	2	
	SIJU 1	13	TJKR	KK				6.00	2	3.00	4.00	24.00		1	2	
	SIJU 2	13	TJKR	KK				6.00	2	3.00	4.00	24.00		1	2	
	MENOEL	13	TJKR	KK				6.00	2	3.00	4.00	24.00		1	2	

Appendix A-7 CONSTRUCTION AND MAINTENANCE COST OF BRIDGES
ON PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 2 (IIC) LENGTH : 9 Km

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	67,487	5,135	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	66,708	102,342	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	374.25	7,739	2,402	2,896,320	898,948	3,795,268
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	0	0	0
<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 : MUSI BANYUASIN

LINK NO : 4 (IIC) LENGTH : 9 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	67,487	5,135	0	0	0
Superstructure (Timber; Span 3m; BNSO)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber; Span 5m; BNSO)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber; Span 8m; BNSO)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete; Span 3m; BNSO)	m2	0.00	66,708	102,342	0	0	0
Superstructure (Concrete; Span 5m; BNSO)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete; Span 8m; BNSO)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete; Span 10m; BNSO)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete; Span 15m; BNSO)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier; for Timber; BNSO)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut; for Timber; BNSO)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier; for Concrete; BNSO)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut; for Concrete; BNSO)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	128.00	7,739	2,402	990,592	307,456	1,298,048
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	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 : MUSI BANYUASIN
 LINK NO : 6 (IIIB-1) LENGTH : 29 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	67,487	5,135	0	0	0
Superstructure (Timber;Span 3m;BMS0)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber;Span 5m;BMS0)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber;Span 8m;BMS0)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete;Span 3m;BMS0)	m2	0.00	66,708	102,342	0	0	0
Superstructure (Concrete;Span 5m;BMS0)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete;Span 8m;BMS0)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete;Span10m;BMS0)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete;Span15m;BMS0)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier;for Timber;BMS0)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut;for Timber;BMS0)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier;for Concrete;BMS0)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut;for Concrete;BMS0)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,739	2,402	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	310.00	4,147	2,400	1,285,570	744,000	2,029,570
<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 : MUSI BANYUASIN

LINK NO : 47 (IIB-1) LENGTH : 11 Km

(Rp)

I T E N	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10f)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber; Span 5a; 10f)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber; Span 8a; 10f)	m2	0.00	67,487	5,135	0	0	0
Superstructure (Timber; Span 3a; BMSO)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber; Span 5a; BMSO)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber; Span 8a; BMSO)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete; Span 3a; BMSO)	m2	0.00	66,700	102,342	0	0	0
Superstructure (Concrete; Span 5a; BMSO)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete; Span 8a; BMSO)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete; Span 10a; BMSO)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete; Span 15a; BMSO)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier; for Timber; 10f)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut; for Timber; 10f)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	12.00	7,739	2,402	92,868	28,824	121,692
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	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 : MUSI BANYUASIN

LINK NO : 52 (IIR-1) LENGTH : 15 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	67,487	5,135	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	66,708	102,342	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	276.00	7,739	2,402	2,135,964	662,952	2,798,916
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	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

PROV : SUMATERA SELATAN KAB : MUSI BANYUASIN

LINK NO : 54 (IIIB-1) LENGTH : 47 Km

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10f)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber;Span 5a;10f)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber;Span 8a;10f)	m2	0.00	87,487	5,135	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	86,708	102,342	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete;Span 8a;BHSO)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete;Span 10a;BHSO)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete;Span 15a;BHSO)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier;for Timber;10f)	NO	0.00	400,726	32,851	0	0	0
Substructure (Abut;for Timber;10f)	NO	0.00	1,225,419	129,741	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,299	1,120	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	92.00	7,739	2,402	711,988	220,984	932,972
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	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 KAR : MUSI BANYUASIN

LINK NO : 55 (IIIB-1) LENGTH : 17 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<< COST >>>>		>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;101)	m2	0.00	46,000	3,540	0	0	0
Superstructure (Timber;Span 5a;101)	m2	0.00	50,952	3,909	0	0	0
Superstructure (Timber;Span 8a;101)	m2	440.00	67,487	5,135	29,694,280	2,259,400	31,953,680
Superstructure (Timber;Span 3a;BH50)	m2	0.00	57,038	4,377	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	62,269	4,743	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	78,973	6,005	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	66,708	102,342	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	69,448	114,569	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	72,254	124,913	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	79,357	142,061	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	86,990	167,579	0	0	0
Substructure (Pier;for Timber;101)	NO	13.00	400,726	32,851	5,209,438	427,063	5,636,501
Substructure (Abut;for Timber;101)	NO	2.00	1,225,419	129,741	2,450,838	259,482	2,710,320
Substructure (Pier;for Timber;BH50)	NO	0.00	589,354	48,615	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,367,780	146,908	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	2,651,987	456,252	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	5,546,808	885,074	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,462	1,239	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	122,904	76,512	0	0	0
Maintenance of Timber Bridge (New)	m2	440.00	8,299	1,120	3,651,560	492,800	4,144,360
Maintenance of Concrete Bridge (New)	m2	0.00	2,787	2,792	0	0	0
Maintenance of Timber Bridge (Exist)	m2	224.00	7,739	2,402	1,733,536	538,048	2,271,584
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,147	2,400	0	0	0
<hr/>							
(Without Overhead)			TOTAL COST (Timber Bridge)		37,354,556	2,945,945	40,300,501
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		37,354,556	2,945,945	40,300,501
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(Overhead : 15%)			TOTAL COST (Timber Bridge)		42,957,739	3,387,837	46,345,576
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		42,957,739	3,387,837	46,345,576

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